STATE OF OHIO DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL AND GAS RESOURCES MANAGEMENT

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In re the Matter of the Application of Chesapeake Exploration, L.L.C., for Unit Operation

Smith Unit

Application Date: November 13, 2018 Supplement Date: November 28, 2018 2nd Supplement Date: January 8, 2019

APPLICATION OF CHESAPEAKE EXPLORATION, L.L.C., FOR UNIT OPERATION

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STATE OF OHIO DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL AND GAS RESOURCES MANAGEMENT

In re the Matter of the Application of Chesapeake Exploration, L.L.C., for Unit Operation

Smith Unit

APPLICATION

Pursuant to Ohio Revised Code § 1509.28, Chesapeake Exploration, L.L.C. ("Chesapeake"), hereby respectfully requests the Chief of the Ohio Department of Natural Resources, Division of Oil and Gas Resources Management ("Division"), to issue an order authorizing Chesapeake to operate the Unitized Formation and applicable land area in Harrison County, Ohio (hereinafter, the "Smith Unit") as a unit according to the Unit Plan attached hereto and as more fully described herein. Chesapeake makes this request for the purpose of increasing substantially the ultimate recovery of oil and natural gas, including related liquids, from the Unitized Formation, and to protect the correlative rights of unit owners, consistent with the public policy of Ohio to conserve and develop the state's natural resources and prevent waste.

I. APPLICANT INFORMATION

Chesapeake Exploration, L.L.C., is a limited liability company organized under the laws of the State of Oklahoma and a wholly-owned subsidiary of Chesapeake Energy Corporation. Chesapeake has its principal office in Oklahoma City, Oklahoma, and local offices at 2321 Energy Drive, Louisville, OH 44641. Chesapeake is one of the most active drillers of horizontal wells in eastern Ohio and is registered in good standing as an "owner" with the Division.

Chesapeake designates to receive service, and respectfully requests that all orders, correspondence, pleadings and documents from the Division and other persons concerning this filing be served upon, the following:

Gregory D. Russell (0059718) Ilya Batikov (0087968) James A. Carr II (0084114) VORYS, SATER, SEYMOUR AND PEASE LLP 52 East Gay Street P. O. Box 1008 Columbus, Ohio 43216-1008 Tel. (614) 464-6400 E-mail: gdrussell@vorys.com ibatikov@vorys.com jacarr@vorys.com

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II. PROJECT DESCRIPTION

The Smith Unit is located in Cadiz, Nottingham, and Stock Townships, Harrison County, Ohio, and consists of sixty-seven (67) separate tracts of land. See Exhibits A-1 and A-2 of the Unit Operating Agreement (showing the plat and tract participations, respectively). The total land area in the Smith Unit is approximately 1,252.637414¹ acres and, at the time of this Application, Chesapeake has the right to drill on and produce from 1,021.442236² acres of the proposed unit – i.e., more than eighty-one percent (81%) of the unit area, which is well above the sixty-five percent (65%) threshold required by Ohio Revised Code § 1509.28.³ As more specifically described herein, Chesapeake seeks authority from the Division to drill and complete four horizontal wells in the Unitized Formation from a centrally-located pad site in order to efficiently test, develop, and operate the Unitized Formation for oil, natural gas, and related liquids production. Chesapeake seeks a unit order because there are unleased, partially unleased, and uncommitted tracts in the Smith Unit as well as tracts where ownership may be in question.

Chesapeake's plan for unit operations (the "Unit Plan") is attached to this Application and consists of the Unit Agreement, attached as <u>Exhibit 1</u>; and the Unit Operating Agreement, attached as <u>Exhibit 2</u>. Among other things, the Unit Plan allocates unit production and expenses based upon each tract's surface acreage participation in the unit; includes a carry provision for those unit participants unable to meet their financial obligations, the amount of which is based upon the risks of and costs related to the project; and conforms to industry standards for the drilling and operating of horizontal wells generally used by Chesapeake with other interest owners.

III. TESTIMONY

The following pre-filed testimony has been attached to this Application to support the Smith Unit's formation: (i) testimony from a Geologist establishing that the Unitized Formation is part of a pool and supporting the Unit Plan's recommended allocation of unit production and

¹ The total acreage in the Smith Unit was calculated using GIS data, along with corresponding deed survey acreage. In its calculations, Chesapeake has taken the actual parcel survey acreage contained within each landowner's deed multiplied by the GIS determined percent in unit to attribute the number of net acres of each tract in the unit.

² Chesapeake Exploration, L.L.C., as operator of the proposed unit, is authorized to file this Application on behalf of TOTAL E&P USA, Inc., with whom Chesapeake has a Development Agreement and a global Joint Operating Agreement, and CHK Utica, L.L.C., as a wholly controlled Chesapeake entity, which is also a party to the Development Agreement. Another working interest owner in the Smith Unit, EAP Ohio, LLC, approves this Application. ³ See Prepared Direct Testimony of Robert Highsaw, attached as Exhibit 5. As to Tracts that are fully leased to Chesapeake and the other committed working interest owners, being the Tracts that are set forth on Exhibit A-4 to the Unit Operating Agreement, Chesapeake has the right to drill and produce from 984.905261 acres of the proposed unit, which is more than 78% of the unit area.

expenses on a surface acreage basis;⁴ (ii) testimony from a Reservoir Engineer establishing that unitization is reasonably necessary to increase substantially the recovery of oil and gas, and that the value of the estimated additional resource recovery from unit operations exceeds its additional costs;⁵ and (iii) testimony from an operational Landman with firsthand knowledge of Chesapeake's Ohio development who describes the project generally, the Unit Plan, efforts to lease unleased owners, and efforts to obtain approvals for unit development.^{6,7}

IV. THE CHIEF SHOULD GRANT AN ORDER FOR THIS APPLICATION

A. Legal Standard

Ohio Revised Code § 1509.28 requires the Chief of the Division to issue an order providing for the unit operation of a pool – or a part thereof – when the applicant shows that it is reasonably necessary to increase substantially the ultimate recovery of oil and gas, and the value of the estimated additional resource recovery from the unit's operations exceeds its additional costs. See Ohio Revised Code § 1509.28(A).

The Chief's order must be on terms and conditions that are just and reasonable and prescribe a plan for unit operations that includes the following:

(1) A description of the unit area;

(2) A statement of the nature of the contemplated operations;

(3) An allocation of production from the unit area not used in unit operations, or otherwise lost, to the separately owned tracts;

(4) A provision addressing credits and charges to be made for the investment in wells, tanks, pumps, and other equipment contributed to unit operations by owners in the unit;

(5) A provision addressing how unit operation expenses shall be determined and charged to the separately owned tracts in the unit, and how they will be paid;

(6) A provision, if necessary, for carrying someone unable to meet their financial obligations in connection with the unit;

(7) A provision for the supervision and conduct of unit operations in which each person has a vote with a value corresponding to the percentage of unit operations expenses chargeable against that person's interest;

(8) The time when operations shall commence and the manner in which, and circumstances under which, unit operations will terminate; and

(9) Such other provisions appropriate for engaging in unit operation and for the protection or adjustment of correlative rights.

See Prepared Direct Testimony of Lara Jaeckel, attached as Exhibit 3.

⁵ See Prepared Direct Testimony of Zulibukaer Shawuti, attached as Exhibit 4.

 ⁶ See Prepared Direct Testimony of Robert Highsaw, attached as <u>Exhibit 5</u>.
 ⁷ Each of the witnesses is an employee of Chesapeake Operating, L.L.C. testifying on behalf of Applicant. Chesapeake Operating, L.L.C. and Applicant are subsidiaries of Chesapeake Energy Corporation and, as such, affiliates of one another.

See Ohio Revised Code § 1509.28(A). The Chief's order becomes effective once approved in writing by those working-interest owners who will be responsible for paying at least sixty-five percent (65%) of the costs of the unit's operations and by royalty and unleased fee-owners of sixty-five percent (65%) of the unit's acreage. Once effective, production that is "allocated to a separately owned tract shall be deemed, for all purposes, to have been actually produced from such tract, and all operations *** [conducted] upon any portion of the unit area shall be deemed for all purposes the conduct of such operations and production from any lease or contract for lands any portion of which is included in the unit area." Ohio Revised Code § 1509.28(B).

B. Chesapeake's Application Meets the Legal Standard

i. The Unitized Formation is Part of a Pool

The "Unitized Formation" consists of the subsurface portion of the Unit Area (i.e., the lands shown on Exhibit A-1 and identified in Exhibit A-2 to the Unit Operating Agreement) at a depth located from fifty feet above the top of the Utica Shale to fifty feet below the base of the Point Pleasant formation, and frequently referred to as the Utica/Point Pleasant formation. The evidence presented in this Application establishes that the Unitized Formation is part of a pool and thus an appropriate subject of unit operation under Ohio Revised Code § 1509.28.⁸ Additionally, that evidence establishes that the Unitized Formation is likely to be reasonably uniformly distributed throughout the unit area – and thus that it is reasonable for the Unit Plan to allocate unit production and expenses to separately owned tracts on a surface acreage basis.⁹

ii. Unit Operations Are Reasonably Necessary to Increase Substantially the Ultimate Recovery of Oil and Gas

The evidence presented in this Application establishes that unit operations are reasonably necessary to increase substantially the ultimate recovery of oil and gas from the lands making up the proposed Smith Unit. The Unit Plan contemplates the drilling of four (4) horizontal wells from a centrally-located multi-well pad site, with estimated lateral lengths ranging from approximately 14,493 feet to 8,930 feet (averaging out to 11,712.5 feet for all four (4) wells).¹⁰ Chesapeake estimates that operations under the requested unit order will increase substantially the ul-

⁸ A "pool" is defined under Ohio law as "an underground reservoir containing a common accumulation of oil or gas, or both, but does not include a gas storage reservoir." Ohio Revised Code § 1509.01(E). See also Exhibit 3 at 2-4.
⁹ Exhibit 3 at 4-5.

¹⁰ <u>See</u>, <u>e.g.</u>, <u>Exhibit 5</u> at 3-4.

timate resource recovery from the proposed Smith Unit if all unit wells are drilled and completed by approximately 43.9 BCFe of natural gas from the Unitized Formation.¹¹ Absent an order authorizing unit operations, it would be uneconomic to develop the Unitized Formation beneath the proposed Smith Unit, leaving that 43.9 BCFe of natural gas stranded.

iii. The Value of Additional Recovery Exceeds Its Additional Costs

The evidence presented in this Application establishes that the value of the estimated additional recovery (i.e., the approximate 43.9 BCFe of natural gas referred to above) has an estimated net present value of \$18.1 million and an estimated undiscounted value of \$49.7 million, meaning that the value of that additional resource recovery exceeds the estimated additional costs incident to conducting unit operations to obtain that additional recovery.¹² See Exhibit ZS-2 to Exhibit 4, which shows for each proposed well the estimated value of the well's production and the estimated drilling and operating costs. In particular, that exhibit shows that the capital/drilling costs will be (on average) approximately \$10.725 million per well, and that the estimated annual operating cost will be (on average) approximately \$105,000 for each well for the first five (5) years of production.

iv. The Unit Plan Meets the Requirements of Ohio Revised Code § 1509.28

The Unit Plan proposed by Chesapeake meets the requirements set forth in Ohio Revised Code § 1509.28. The unit area is described in the Unit Agreement at Article 1, as well as on Exhibits A-1 and A-2 to the Unit Operating Agreement. The nature of the contemplated unit operations can be found generally in the Unit Agreement at Article 3, with greater specificity throughout the Unit Agreement and Unit Operating Agreement.¹³ Unit production and unit expenses are allocated on a surface acreage basis as set forth in the Unit Agreement at Articles 3 through 5 (generally), except where otherwise allocated by the Unit Operating Agreement.¹⁴ Payment of unit expenses is addressed generally in Article 3 of the Unit Agreement.¹⁵ No provision for credits and charges related to contributions made by owners in the unit area regarding wells, tanks, pumps and other equipment for unit operations are addressed in the Unit Operating Agreement because none are contemplated.¹⁶ The Unit Plan provides for various carries in the event a par-

¹¹ Exhibit 4 at 3-5. We emphasize that these are only estimates, and like the rest of the estimates set forth in this Application, they should be treated as simply estimates based upon the best information available at the time. 12 <u>*Id*</u>. at 4.

¹³ $\overline{\underline{\text{See}}}$ also, e.g., Exhibit 5.

¹⁴ <u>*Id*</u>. at 6-7.

 $[\]frac{15}{Id}$. at 7.

ticipant is unable to meet its financial obligations related to the unit – <u>see</u>, <u>e.g.</u>, Article VI of the Unit Operating Agreement.¹⁷ Voting provisions related to the supervision and conduct of unit operations are set forth in Article XVI of the Unit Operating Agreement, with each person having a vote that has a value corresponding to the percentage of unit expenses chargeable against that person's interest.¹⁸ Commencement and termination of operations are addressed in Articles 11 and 12 of the Unit Agreement.

V. APPROVALS

As of the filing of this Application, the Unit Plan has been agreed to or approved by more than eighty-one percent (81%) of the Working Interest Owners. <u>See Exhibit 6</u>.¹⁹ This working interest owner approval exceeds the statutory minimum requirements set forth in Ohio Revised Code § 1509.28(B) for the Chief's order, if issued, to become effective.

VI. HEARING

Ohio Revised Code § 1509.28 requires the Chief to hold a hearing to consider this Application, when requested by sixty-five percent (65%) of the owners of the land area underlying the proposed unit. Ohio Revised Code § 1509.28(A). That threshold level is met here. See Section II above. Accordingly, Chesapeake respectfully requests that the Division schedule a hearing at an available hearing room located at the Division's Columbus complex when this Application is deemed complete and accurate.

VII. CONCLUSION

Ohio Revised Code § 1509.28 requires the Chief of the Division to issue an order for the unit operation of a pool – or a part thereof – if it is reasonably necessary to increase substantially the recovery of oil and gas, and the value of the estimated additional recovery from the unit's operations exceeds its additional costs. Chesapeake respectfully submits that the Application meets this standard, and that the terms and conditions of the Unit Plan are just and reasonable and satisfy the requirements of Ohio Revised Code § 1509.28(B). Chesapeake therefore asks the

¹⁷ <u>Id</u>. at 9-11.

 $^{18 \}overline{Id}$. at 11.

¹⁹ As to Tracts that are fully leased to Chesapeake and the other committed working interest owners, being the Tracts that are set forth on Exhibit A-4 to the Unit Operating Agreement, the Unit Plan has been agreed to or approved by more than seventy-eight (78%) of the Working Interest Owners.

Chief to issue an order authorizing Chesapeake to operate the Smith Unit according to the Unit Plan attached hereto.

Respectfully submitted,

A. Com I am

Gregory D. Russell (0059718) Ilya Batikov (0087968) James A. Carr II (0084114) VORYS, SATER, SEYMOUR AND PEASE LLP 52 East Gay Street P. O. Box 1008 Columbus, Ohio 43216-1008

Attorneys for Applicant, Chesapeake Exploration, L.L.C.

UNIT AGREEMENT

<u>THE SMITH UNIT</u> CADIZ, NOTTINGHAM, & STOCK TOWNSHIPS HARRISON COUNTY, OHIO

THIS AGREEMENT, entered into as of this 13th day of November, 2018, by the parties subscribing, ratifying, approving, consenting to, or bound to the original of this instrument, a counterpart thereof, or other instrument agreeing to become a party hereto; and by those parties participating as a result of an order issued by the Ohio Department of Natural Resources, Division of Oil and Gas Resources Management ("Division"), pursuant to Ohio Revised Code Section 1509.28.

WITNESSETH:

WHEREAS, in the interest of the public welfare and to promote conservation and increase the ultimate recovery of oil, natural gas, and other substances from the Smith Unit, in Cadiz, Nottingham, & Stock Townships, Harrison County, Ohio, and to avoid waste and protect the correlative rights of the owners of interests therein, it is deemed necessary and desirable to enter into and approve this Agreement to create and establish a unit comprising the Unit Area under the applicable laws of the State of Ohio to unitize the Oil and Gas Rights in and to the Unitized Formation in order to conduct Unit Operations as herein provided; and,

WHEREAS, this Agreement allocates responsibility for the supervision and conduct of Unit Operations, and responsibility for the payment of Unit Expenses, to Working Interest Owners based upon each owner's pro rata interest in the unit acreage;

NOW THEREFORE, in consideration of the premises and of the mutual agreements herein contained, it is agreed and approved as follows:

ARTICLE 1: DEFINITIONS

As used in this Agreement:

Effective Date is the time and date this Agreement becomes effective as provided in Article 11.

Oil and Gas Rights are the rights to investigate, explore, prospect, drill, develop, produce, market, transport, and operate within the Unit Area for the production of Unitized Substances, or to share in the production so obtained or the proceeds thereof, including without limitation the conducting of exploration, geologic and/or geophysical surveys by seismograph, core test, gravity and/or magnetic methods, the injecting of gas, water, air or other fluids into the Unitized Formation, the installation, operation and maintenance of monitoring facilities, the laying of pipelines, building of roads, tanks, power stations, telephone lines, and/or other structures.

Person is any individual, corporation, partnership, association, receiver, trustee, curator, executor, administrator, guardian, fiduciary, or other representative of any kind, any department, agency, or instrumentality of the state, or any governmental subdivision thereof, or any other entity capable of holding an interest in the Unitized Substances or Unitized Formation.

Royalty Interest means a right to or interest in any portion of the Unitized Substances or proceeds from the sale thereof other than a Working Interest.

Royalty Owner is a Person who owns a Royalty Interest.

Tract means the land identified by a tract number in <u>Exhibit A-2</u> to the Unit Operating Agreement.

Tract Participation means the fractional interest shown on <u>Exhibit A-2</u> to the Unit Operating Agreement for allocating Unitized Substances to a Tract.

Unit Area means the lands shown on the plat attached as <u>Exhibit A-1</u> and identified on <u>Exhibit A-2</u> to the Unit Operating Agreement, including also areas to which this Agreement may be extended as herein provided.

Unit Equipment means all personal property, lease and well equipment, plants, and other facilities and equipment taken over or otherwise acquired for the unit account for use in Unit Operations.

Unit Expense means all cost, expense, investment and indebtedness incurred by Working Interest Owners or Unit Operator pursuant to this Agreement and the Unit Operating Agreement for or on account of Unit Operations, but shall not include post-production costs attributable to Royalty Owner interests.

Unitized Formation means the subsurface portion of the Unit Area located from fifty feet above the top of the Utica Shale (at an approximate depth of 8,024 feet) to fifty feet below the base of the Point Pleasant formation (at an approximate depth of 8,407 feet).

Unit Operating Agreement means the modified A.A.P.L. Form 610-1989 Model Form Operating Agreement dated November 13, 2018, for the Smith Unit, which is attached hereto. Such Unit Operating Agreement contains provisions for credits and charges among Working Interest Owners for their respective investments in, and expenses for, Unit Operations, including a provision, if necessary, for carrying any Person unable or electing not to participate in Unit Operations. In addition, the Unit Operating Agreement also contains provisions relating to the supervision and conduct of Unit Operations and the manner in which Working Interest Owners may vote. The Unit Operating Agreement is hereby confirmed and by reference made a part of this Agreement. In the event of a conflict between such agreements, the terms of the Unit Operating Agreement shall govern.

Unit Operations are all operations conducted pursuant to this Agreement and the Unit Operating Agreement.

Unit Operator is the Person designated by Working Interest Owners under the Unit Operating Agreement to conduct Unit Operations.

Unitized Substances are all oil, gas, gaseous substances, sulfur, condensate, distillate, and all associated and constituent liquid or liquefiable hydrocarbons within or produced from the Unitized Formation.

Working Interest means an interest in Unitized Substances in the Unit Area by virtue of a lease, operating agreement, fee title, or otherwise, including a carried interest, the owner of which is obligated to pay, either in cash or out of production or otherwise, a portion of the Unit Expense; however, Oil and Gas Rights that are free of a lease or other instrument creating a Working Interest and whose owner, under an Order by the Chief, either chooses to be treated as a Working Interest Owner or who is awarded a working interest by such Order shall be regarded as a Working Interest to the extent of seven-eighths (7/8) thereof and a Royalty Interest to the extent of the remaining one-eighth (1/8) thereof. Upon reaching a Unitization Order's prescribed payout period on a specific well, the owner of a Working Interest free of a lease or other instrument and created by virtue of the Unitization Order shall receive monthly payments on net production revenue equal to seven-eighths (7/8) of the owner's Tract Participation, while continuing the one-eighth (1/8) Royalty Interest. A Royalty Interest created out of a Working Interest subsequent to the participation of, subscription to, ratification of, approval by, or consent to this Agreement by the owner of such Working Interest shall continue to be subject to such Working Interest burdens and obligations that are stated in this Agreement and the Unit Operating Agreement.

Working Interest Owner is a Person who owns a Working Interest.

ARTICLE 2: CREATION AND EFFECT OF UNIT

Oil and Gas Rights Unitized. All Royalty Interests and Working Interests in Oil and Gas Rights in and to the lands identified on <u>Exhibits A-1, A-2, A-3, A-4, A-5, and A-6</u> to the Unit Operating Agreement are hereby unitized insofar as, and only insofar as, the respective Oil and Gas Rights pertain to the Unitized Formation, so that Unit Operations may be conducted with respect to the Unitized Formation as if the Unit Area had been included in a single lease executed by all Royalty Owners, as lessors, in favor of all Working Interest Owners, as lesses, and as if the lease contained all of the provisions of this Agreement.

Personal Property Excepted. All lease and well equipment, materials, and other facilities heretofore or hereafter placed by any of the Working Interest Owners on the lands covered hereby shall be deemed to be and shall remain personal property belonging to, and may be removed by, Working Interest Owners with the prior consent of Unit Operator. The rights and interests therein, as among Working Interest Owners, are set forth in the Unit Operating Agreement.

Operations. If an order is issued granting Unit Operator the authority to conduct Unit Operations, the operations conducted pursuant to the order of the chief shall constitute a

fulfillment of all the express or implied obligations of each lease or contract covering lands in the unit area to the extent of that compliance with such obligations cannot be had because of the order of the chief.

Continuation of Leases and Term Interests. Unit Operations conducted upon any part of the Unit Area or production of Unitized Substances from any part of the Unitized Formation, except for the purpose of determining payments to Royalty Owners, shall be considered as operations upon or production from each portion of each Tract, and such production or operations shall continue in effect each lease or term, mineral or Royalty Interest, as to all Tracts and formations covered or affected by this Unit Agreement just as if such Unit Operations had been conducted and a well had been drilled on and was producing from each portion of each Tract. It is agreed that each lease shall remain in full force and effect from the date of execution hereof until the Effective Date, and thereafter in accordance with its terms and this Agreement.

Titles Unaffected by Unitization. Nothing herein shall be construed to result in any transfer of title to Oil and Gas Rights by any Person to any other Person or to Unit Operator.

Pre-existing Conditions in Unit Area. Working Interest Owners shall not be liable for or assume any obligation with respect to (i) the restoration or remediation of any condition associated with the Unit Area that existed prior to the Effective Date of this Agreement, or (ii) the removal and/or plugging and abandonment of any wellbore, equipment, fixtures, facilities or other property located in, on or under the Unit Area prior to the Effective Date of this Agreement. Working Interest Owners reserve the right to elect, but shall not have the obligation, to use for injection and/or operational purposes any nonproducing or abandoned wells or dry holes, and any other wells completed in the Unitized Formation.

ARTICLE 3: UNIT OPERATIONS

Unit Operator. Unit Operator shall have the exclusive right to conduct Unit Operations, which shall conform to the provisions of this Agreement and the Unit Operating Agreement.

Unit Expenses. Except as otherwise provided in the Unit Operating Agreement, Unit Expenses shall be allocated to each Tract in the proportion that the Tract surface acreage within the Unit Area bears to the total surface acreage of the Unit Area, and shall be paid by the respective Working Interest Owners. Oil and Gas Rights that are free of a lease or other instrument creating a Working Interest and whose owner, under an Order by the Chief, either chooses to be treated as a Working Interest Owner or who is awarded a working interest by such Order shall be regarded as a Working Interest to the extent of seven-eighths (7/8) thereof and a Royalty Interest to the extent of the remaining one-eighth (1/8) thereof.

ARTICLE 4: TRACT PARTICIPATIONS

Tract Participations. The Tract Participation of each Tract is identified in <u>Exhibit A-2</u> to the Unit Operating Agreement and is determined upon an acreage basis as the proportion that the Tract surface acreage of an interest owner bears to the total surface acreage of the Unit Area, calculated as follows: INTEREST OWNER SURFACE ACRES IN EACH TRACT DIVIDED BY THE TOTAL SURFACE ACRES WITHIN THE UNIT AREA. The Tract Participations as shown in <u>Exhibit A-2</u> to the Unit Operating Agreement are accepted and approved as being fair and equitable.

ARTICLE 5: ALLOCATION OF UNITIZED SUBSTANCES

Allocation of Unitized Substances. All Unitized Substances produced and saved shall be allocated to the several Tracts in accordance with the respective Tract Participations effective during the period that the Unitized Substances were produced. The amount of Unitized Substances allocated to each Tract, regardless of whether the amount is more or less than the actual production of Unitized Substances from the well or wells, if any, on such Tract, shall be deemed for all purposes to have been produced from such Tract.

Distribution Within Tracts. The Unitized Substances allocated to each Tract or portion thereof shall be distributed among, or accounted for to, the Persons entitled to share in the production from such Tract or portion thereof in the same manner, in the same proportions, and upon the same conditions as they would have participated and shared in the production from such Tract, or in the proceeds thereof, had this Agreement not been entered into, and with the same legal effect. If any Oil and Gas Rights in a Tract hereafter become divided and owned in severalty as to different parts of the Tract, the owners of the divided interests, in the absence of

an agreement providing for a different division, shall share in the Unitized Substances allocated to the Tract, or in the proceeds thereof, in proportion to the surface acreage of their respective parts of the Tract. Any royalty or other payment which depends upon per well production or pipeline runs from a well or wells on a Tract shall, after the Effective Date, be determined by dividing the Unitized Substances allocated to the Tract by the number of wells on the Tract capable of producing Unitized Substances on the Effective Date.

ARTICLE 6: USE OR LOSS OF UNITIZED SUBSTANCES

Use of Unitized Substances. Working Interest Owners may use or consume Unitized Substances for Unit Operations, including but not limited to, the injection thereof into the Unitized Formation.

Royalty Payments. No royalty, overriding royalty, production, or other payments shall be payable on account of Unitized Substances used, lost, or consumed in Unit Operations.

ARTICLE 7: TITLES

Warranty and Indemnity. Each Person who, by acceptance of produced Unitized Substances or the proceeds from a sale thereof, may claim to own a Working Interest or Royalty Interest in and to any Tract or in the Unitized Substances allocated thereto, shall be deemed to have warranted its title to such interest, and, upon receipt of the Unitized Substances or the proceeds from a sale thereof to the credit of such interest, shall indemnify and hold harmless all other Persons in interest from any loss due to failure, in whole or in part, of its title to any such interest.

Production Where Title is in Dispute. If the title or right of any Person claiming the right to receive in kind all or any portion of the Unitized Substances allocated to a Tract is in dispute, Unit Operator at the direction of Working Interest Owners may: Require that the Person to whom such Unitized Substances are delivered or to whom the proceeds from a sale thereof are paid furnish security for the proper accounting therefor to the rightful owner or owners if the title or right of such Person fails in whole or in part; or withhold and market the portion of Unitized Substances with respect to which title or right is in dispute, and hold the proceeds thereof until such time as the title or right thereto is established by a final judgment of a court of competent jurisdiction or otherwise to the satisfaction of Working Interest Owners, whereupon the proceeds so held shall be paid to the Person rightfully entitled thereto.

Transfer of Title. Any conveyance of all or any part of any interest owned by any Person hereto with respect to any Tract shall be made expressly subject to this Agreement. No change of title shall be binding upon Unit Operator, or upon any Person hereto other than the Person so transferring, until 7:00 a.m. on the first day of the calendar month next succeeding the date of receipt by Unit Operator of a certified copy of the recorded instrument evidencing such change in ownership.

ARTICLE 8: EASEMENTS, GRANTS, OR USE OF SURFACE

Grant of Easements. Subject to the terms and conditions of the various leases, Unit Operator shall have the right of ingress and egress along with the right to use as much of the surface of the land within the Unit Area as may be reasonably necessary for Unit Operations and the removal of Unitized Substances from the Unit Area.

Use of Water. Subject to the terms and conditions of the various leases, Unit Operator shall have and is hereby granted free use of water from the Unit Area for Unit Operations, except water from any well, lake, pond, or irrigation ditch of a Royalty Owner. Unit Operator may convert dry or abandoned wells in the Unit Area for use as water supply or disposal wells.

Surface Damages. Subject to the terms and conditions of the various leases, Working Interest Owners shall reimburse the owner for the market value prevailing in the area of growing crops, livestock, timber, fences, improvements, and structures on the Unit Area that are destroyed or damaged as a result of Unit Operations.

Unitized Property. Notwithstanding anything in this Article 8 to the contrary, and except where otherwise authorized by the Division, there shall be no Unit Operations conducted on the surface of any property located within the Smith Unit, and there shall be no right of ingress and egress over and no right to use the surface waters of any surface lands located within the Smith Unit, owned by an interest owner identified in <u>Exhibit A-3</u> to the Unit Operating Agreement.

ARTICLE 9: CHANGE OF TITLE

Covenant Running with the Land. This Agreement shall extend to, be binding upon, and inure to the benefit of, the respective heirs, devisees, legal representatives, successors, and assigns of the parties hereto, and shall constitute a covenant running with the lands, leases, and interests conveyed hereby.

Waiver of Rights of Partition. Each party to this Agreement understands and acknowledges, and is hereby deemed to covenant and agree, that during the term of this Agreement it will not resort to any action to, and shall not, partition Oil and Gas Rights, the Unit Area, the Unitized Formation, the Unitized Substances or the Unit Equipment, and to that extent waives the benefits of all laws authorizing such partition.

ARTICLE 10: RELATIONSHIPS OF PERSONS

No Partnership. All duties, obligations, and liabilities arising hereunder shall be several and not joint or collective. This Agreement is not intended to and shall not be construed to create an association or trust, or to impose a partnership or fiduciary duty, obligation, or liability. Each Person affected hereby shall be individually responsible for its own obligations.

No Joint or Cooperative Refining, Sale or Marketing. This Agreement is not intended and shall not be construed to provide, directly or indirectly, for any joint or cooperative refining, sale or marketing of Unitized Substances.

ARTICLE 11: EFFECTIVE DATE

Effective Date. This Agreement shall become effective, and operations may commence hereunder, as of the date of an effective order approving this unit by the Division in accordance with the provisions of Ohio Revised Code Section 1509.28; provided, however, that Working Interest Owners may terminate this Agreement in the event of a material modification by the Division of all or any part of this Agreement or the Unit Operating Agreement in such order by filing a notice of termination with the Division within thirty (30) days of such order becoming final and no longer subject to further appeal. In the event a dispute arises or exists with respect to this Agreement, the Unit Operating Agreement, or the order approving this unit issued by the Division, Unit Operator may, in its sole discretion, hold the revenues from the sale of Unitized Substances until such time as such dispute is resolved or, in the Unit Operator's opinion, it is appropriate to distribute such revenues.

ARTICLE 12: TERM

Term. This Agreement, unless sooner terminated in the manner hereinafter provided, shall remain in effect for five (5) years from the Effective Date and as long thereafter as Unitized Substances are produced, or are capable of being produced, in paying quantities from the Unit Area without a cessation of more than ninety (90) consecutive days, or so long as other Unit Operations are conducted without a cessation of more than ninety (90) consecutive days, unless sooner terminated by Working Interest Owners owning a combined Tract Participation of fifty-one percent (51%) or more whenever such Working Interest Owners determine that Unit Operations are no longer warranted. The date of any termination hereunder shall be known as the "Termination Date."

Effect of Termination. Upon termination of this Agreement, the further development and operation of the Unitized Formation as a unit shall cease. Each oil and gas lease and other agreement covering lands within the Unit Area shall remain in force for one hundred eighty (180) days after the date on which this Agreement terminates, and for such further period as is provided by the lease or other agreement. The relationships among owners of Oil and Gas Rights shall thereafter be governed by the terms and provisions of the leases and other instruments, not including this Agreement, affecting the separate Tracts.

Certificate of Termination. Upon termination of this Agreement, Unit Operator shall file with the Division and for record in the county or counties in which the land affected is located a certificate stating that this Agreement has terminated and the Termination Date.

Salvaging Equipment Upon Termination. If not otherwise granted by the leases or other instruments affecting the separate Tracts, Working Interest Owners shall have a period of six (6) months after the Termination Date within which to salvage and remove Unit Equipment.

ARTICLE 13: APPROVAL

Original, Counterpart, or Other Instrument. An owner of Oil and Gas Rights or its agent may approve this Agreement by signing the original, a counterpart thereof, or other instrument approving this Agreement. The signing of any such instrument shall have the same effect as if all Persons had signed the same instrument.

Commitment of Interests to Unit. The approval of this Agreement by a Person or their agent shall bind that Person and commit all interests owned or controlled by that Person as of the date of such approval, and additional interests thereafter acquired.

Joinder in Dual Capacity. Execution as herein provided by any Person, as either Working Interest Owner or a Royalty Owner, shall commit all interests owned or controlled by such Person as of the date of such execution and any additional interest thereafter acquired.

ARTICLE 14: MISCELLANEOUS

Determinations by Working Interest Owners. All decisions, determinations, or approvals by Working Interest Owners hereunder shall be made pursuant to the voting procedure of the Unit Operating Agreement unless otherwise provided herein.

Severability of Provisions. The provisions of this Agreement are severable and if any section, sentence, clause or part thereof is held to be invalid for any reason, such invalidity shall not be construed to affect the validity of the remaining provisions of this Agreement.

Laws and Regulations. This Agreement shall be governed by and subject to the laws of the State of Ohio, to the valid rules, regulations, orders and permits of the Division, and to all other applicable federal, state, and municipal laws, rules, regulations, orders, and ordinances. Any change of the Unit Area or any amendment to this Agreement or the Unit Operating Agreement shall be in accordance with Ohio law.

Submitted by:

CHESAPEAKE EXPLORATION, L.L.C.

By:

Robert Highsaw Staff Landman Chesapeake Exploration, L.L.C. P.O. Box 18496 Oklahoma City, Oklahoma 73154-0496 Tel. (405) 935-2289 E-mail: robert.highsaw@chk.com

A.A.P.L. FORM 610 - 1989

MODEL FORM OPERATING AGREEMENT

OPERATING AGREEMENT

DATED

<u>November 13</u>, <u>2018</u>, _{Var},

OPERATOR Chesapeake Exploration, L.L.C.

CONTRACT AREAThe lands shown on the plat attached as Exhibit A-1 and described onExhibit A-2 and generally known as the Smith Unit.

COUNTY OR PARISH OF Harrison , STATE OF Ohio

UNIT NAME: <u>Smith</u>

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A.A.P.L. NO. 610 – 1989

Exhibit 2

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L

1 **OPERATING AGREEMENT** 2 THIS AGREEMENT, entered into by and between _____ Chesapeake Exploration, L.L.C., an Oklahoma limited liability company 3 hereinafter designated and referred to as "Operator," and the signatory party or parties other than Operator, sometimes 4 hereinafter referred to individually as "Non-Operator," and collectively as "Non-Operators." 5 WITNESSETH: 6 WHEREAS, the parties to this agreement are owners of Oil and Gas Leases and/or Oil and Gas Interests in the land 7 identified in Exhibit "A," and the parties hereto have reached an agreement to explore and develop these Leases and/or Oil 8 and Gas Interests for the production of Oil and Gas to the extent and as hereinafter provided, 9 NOW. THEREFORE, it is agreed as follows: 10 ARTICLE I. 11 DEFINITIONS 12 As used in this agreement, the following words and terms shall have the meanings here ascribed to them: 13 A. The term "AFE" shall mean an Authority for Expenditure prepared by a party to this agreement for the purpose of 14 estimating the costs to be incurred in conducting an operation hereunder. 15 B. The term "Completion" or "Complete" shall mean a single operation intended to complete a well as a producer of Oil 16 and Gas in one or more Zones, including, but not limited to, the setting of production casing, perforating, well stimulation 17 and production testing conducted in such operation. or "Unit Area" C. The term "Contract Area" shall mean all of the lands, Oil and Gas Leases and/or Oil and Gas Interests intended to be 18 19 Developed and operated for Oil and Gas purposes under this agreement. Such lands, Oil and Gas Leases and Oil and Gas 20 Interests are described in Exhibit "A", Exhibit "A-1", Exhibit "A-2", and Exhibit "A-3". See also Article XVI.K. , except as provided in Article I.X, D. The term "Deepen"/ shall mean a single operation whereby a well is drilled to an objective Zone below the deepest 21 22 Zone in which the well was previously drilled, or below the Deepest Zone proposed in the associated AFE, whichever is the 23 lesser. 24 E. The terms "Drilling Party" and "Consenting Party" shall mean a party who agrees to join in and pay its share of the 25 cost of any operation conducted under the provisions of this agreement. 26 F. The term "Drilling Unit" shall mean the area fixed for the drilling of one wells 27 body having authority. If a Drilling Unit is not fixed by any such rule or order, a Drilling Unit shall be the drilling unit as **Operator in its sole discretion so long as consistent with any restrictions in the Oil and Gas Leases or by applicable law,** established by the / pattern of drilling in the Contract Area unless fixed by express agreement of the Drilling Parties. See also Article XVI.K. 28 29 G. The term "Drillsite" shall mean the Oil and Gas Lease or Oil and Gas Interest on which a proposed well is to be 30 31 located. 32 H. The term "Initial Well" shall mean the well required to be drilled by the parties hereto as provided in Article VI.A. 33 I. The term "Non-Consent Well" shall mean a well in which less than all parties have conducted an operation as 34 provided in Article VI.B.2. J. The terms "Non-Drilling Party" and "Non-Consenting Party" shall mean a party who elects not to participate in a 35 36 proposed operation. 37 K. The term "Oil and Gas" shall mean oil, gas, casinghead gas, gas condensate, and/or all other liquid or gaseous 38 hydrocarbons and other marketable substances produced therewith, unless an intent to limit the inclusiveness of this term is 39 specifically stated. L. The term "Oil and Gas Interests" or "Interests" shall mean unleased fee and mineral interests in Oil and Gas in tracts 40 41 of land lying within the Contract Area which are owned by parties to this agreement. M. The terms "Oil and Gas Lease," "Lease" and "Leasehold" shall mean the oil and gas leases or interests therein 42 covering tracts of land lying within the Contract Area which are owned by the parties to this agreement. except as provided in Article I.Y, N. The term "Plug Back" shall mean / a single operation whereby a deeper Zone is 43 44 operation whereby a deeper Zone is abandoned in order to attempt a 45 Completion in a shallower Zone. 46 O. The term "Recompletion" or "Recomplete" shall mean an operation whereby a Completion in one Zone is abandoned 47 in order to attempt a Completion in a different Zone within the existing wellbore. P. The term "Rework" shall mean an operation conducted in the wellbore of a well after it is Completed to secure, 48 restore, or improve production in a Zone which is currently open to production in the wellbore. Such operations include, but 49 50 are not limited to, well stimulation operations but exclude any routine repair or maintenance work or drilling, Sidetracking, Deepening, Completing, Recompleting, or Plugging Back of a well. , in the case of Vertical Wells, Q. The term "Sidetrack" shall mean / the directional control and intentional deviation of a well from vertical so as to 51 52 53 change the bottom hole location and, in the case of Horizontal Wells (defined hereinafter), an operation by which a lateral wellbore is drilled off of the horizontal wellbore, in each case unless done to straighten the hole or drill around junk in the hole / to overcome other 54 55 mechanical difficulties. 56 R. The term "Zone" shall mean a stratum of earth containing or thought to contain a common accumulation of Oil and 57 Gas separately producible from any other common accumulation of Oil and Gas. 58 S. The term "Lateral" shall mean that portion of a wellbore that deviates from approximate vertical orientation to 59 approximate horizontal orientation and all wellbore beyond such deviation to Total Measured Depth. 60 T. The term "Vertical Well" shall mean any well other than a "Horizontal Well". 61 U. The term "Horizontal Well" shall mean a well containing a single Lateral in which the wellbore deviates at an angle of at least eighty degrees (80°) from true vertical and with a horizontal projection exceeding one hundred feet (100') measured from 62 63 the initial point of penetration into a specific geological interval. V. The term "Multi-lateral Well" shall mean a Horizontal Well which contains more than one Lateral. 64 65 W. The term "Total Measured Depth," when used in connection with a Multi-lateral or Horizontal Well, shall 66 mean the distance from the surface of the ground to the terminus of the wellbore, as measured along the wellbore. Each Lateral 67 taken together with the common vertical wellbore shall be considered a single wellbore and shall have a corresponding Total Measured Depth. When the proposed operation(s) is the drilling of, or operation on, a Multi-lateral or Horizontal Well, the term 68 "depth" or "total depth" wherever used in the Agreement shall be deemed to read "Total Measured Depth" insofar as it applies to 69 70 such well. 71 X. The term "Deepen" when used in conjunction with a Multi-lateral or Horizontal Well shall mean an operation 72 whereby a lateral is drilled to a distance greater than the distance set out in the well proposal approved by the participating parties. 73 This shall include reentry of a Vertical Well to convert the well to a Horizontal Well. See also Article XVI.E.2.

74 Y. For the purposes of this Agreement, as to a Multi-lateral or Horizontal Well, the term "Plug Back" shall mean an

operation to test or complete the well at a stratigraphically shallower geological horizon in which the operation has been or is being completed and which is not within an existing Lateral. Z. The term "affiliate" shall mean any Person that, directly or indirectly, through one or more intermediaries, Controls or is Controlled by, or is under common Control with, another Person. The term "Control" and its derivatives with respect to any Person shall means the possession, directly or AA. indirectly, of the power, directly or indirectly, to direct or cause the direction of the management or policies of the controlled Person, whether through the ownership of equity interests in or voting rights attributable to the equity interests in such Person, by contract or agency, by the general partner of a Person that is a partnership, or otherwise. BB. The term "Person" shall mean any individual, corporation, company, partnership, limited partnership, limited liability company, trust, estate, governmental authority or any other entity. Unless the context otherwise clearly indicates, words used in the singular include the plural, the word "person" includes natural and artificial persons, the plural includes the singular, and any gender includes the masculine, feminine, and neuter. ARTICLE II. EXHIBITS The following exhibits, as indicated below and attached hereto, are incorporated in and made a part hereof: A. Exhibit "A," – shall also mean all sub-exhibits as appropriate, including Exhibits "A-1", "A-2", "A-3", "A-4", "A-5", and shall include the following information: (1) Description of lands subject to this agreement, (2) Restrictions, if any, as to depths, formations, or substances, (3) Parties to agreement with addresses and telephone numbers for notice purposes, (4) Percentages or fractional interests of parties to this agreement, (5) Oil and Gas Leases and/or Oil and Gas Interests subject to this agreement. (also included on Exhibit "A-2") (6) Burdens on production.
 (7) Addresses of parties for notice purposes (also included on Exhibit "A-2, A-3, A-4, A-5, & A-6") A-1. Plat of Contract Area. _ A-2. List of Contract Area Leases. ____ B. Exhibit "B," Form of Lease. ____ C. Exhibit "C," Accounting Procedure. D. Exhibit "D," Insurance. E. Exhibit "E," Gas Balancing Agreement. F. Exhibit "F," Non-Discrimination and Certification of Non-Segregated Facilities. ___ G. Exhibit "G," Tax Partnership. F. Other: Model Form Recording Supplement to Operating Agreement and Financing Agreement.

If any provision of any exhibit, except Exhibits "E7" "F," and "G," is inconsistent with any provision contained in the body of this agreement, the provisions in the body of this agreement shall prevail.

ARTICLE III.

INTERESTS OF PARTIES

A. Oil and Gas Interests: or hereafter acquires If any party owns / an Oil and Gas Interest in the Contract Area, that Interest shall be treated for all purposes of this 5 6

agreement and during the term hereof as if it were covered by the form of Oil and Gas Lease attached hereto as Exhibit "B." and the owner thereof shall be deemed to own both royalty interest in such lease and the interest of the lessee thereunder.

9 B. Interests of Parties in Costs and Production:

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10 Unless changed by other provisions, all costs and liabilities incurred in operations under this agreement shall be borne 11 and paid, and all equipment and materials acquired in operations on the Contract Area shall be owned, by the parties as their 12 interests are set forth in Exhibit "A." In the same manner, the parties shall also own all production of Oil and Gas from the Contract Area subject, however, to the payment of royalties and other burdens on production as subject to burdens of record described 13 14 hereafter.

15 Regardless of which party has contributed any Oil and Gas Lease or Oil and Gas Interest on which royalty or other 16 burdens may be payable and except as otherwise expressly provided in this agreement, each party shall pay or deliver, or 17 cause to be paid or delivered, all burdens on its share of the production from the Contract Area up to, but not in excess of_

> 12.50% and shall indemnify, defend and hold the other parties free from any liability therefor.

20 Except as otherwise expressly provided in this agreement, if any party has contributed hereto any Lease or Interest which is 21 burdened with any royalty, overriding royalty, production payment or other burden on production in excess of the amounts 22 stipulated above, such party so burdened shall assume and alone bear all such excess obligations and shall indemnify, defend 23 and hold the other parties hereto harmless from any and all claims attributable to such excess burden. However, so long as 24 the Drilling Unit for the productive Zone(s) is identical with the Contract Area, each party shall pay or deliver, or cause to 25 be paid or delivered, all burdens on production from the Contract Area due under the terms of the Oil and Gas Lease(s) 26 which such party has contributed to this agreement, and shall indemnify, defend and hold the other parties free from any 27 liability therefor.

28 No party shall ever be responsible, on a price basis higher than the price received by such party, to any other party's 29 lessor or royalty owner, and if such other party's lessor or royalty owner should demand and receive settlement on a higher 30 price basis, the party contributing the affected Lease shall bear the additional royalty burden attributable to such higher price.

31 Nothing contained in this Article III.B. shall be deemed an assignment or cross-assignment of interests covered hereby, 32 and in the event two or more parties contribute to this agreement jointly owned Leases, the parties' undivided interests in 33 said Leaseholds shall be deemed separate leasehold interests for the purposes of this agreement.

34 C. Subsequently Created Interests:

35 If any party has contributed hereto a Lease or Interest that is burdened with an assignment of production given as security 36 for the payment of money, or if, after the date of this agreement, any party creates an overriding royalty, production 37 payment, net profits interest, assignment of production or other burden payable out of production attributable to its working 38 interest hereunder, such burden shall be deemed a "Subsequently Created Interest." Further, if any party has contributed 39 hereto a Lease or Interest burdened with an overriding royalty, production payment, net profits interests, or other burden 40 payable out of production created prior to the date of this agreement, and such burden is not recorded or is not referenced by another 41 recorded instrument sufficient for notice purposes in the county records of the applicable county or is not shown on Exhibit "A," such 42 burden also shall be deemed a Subsequently Created Interest to the extent such burden causes the burdens on such party's 43 Lease or Interest to exceed the amount stipulated in Article III.B. above.

44 The party whose interest is burdened with the Subsequently Created Interest (the "Burdened Party") shall assume and 45 alone bear, pay and discharge the Subsequently Created Interest and shall indemnify, defend and hold harmless the other 46 parties from and against any liability therefor. Further, if the Burdened Party fails to pay, when due, its share of expenses 47 chargeable hereunder, all provisions of Article VII.B. shall be enforceable against the Subsequently Created Interest in the 48 same manner as they are enforceable against the working interest of the Burdened Party. If the Burdened Party is required 49 under this agreement to assign or relinquish to any other party, or parties, all or a portion of its working interest and/or the 50 production attributable thereto, said other party, or parties, shall receive said assignment and/or production free and clear of 51 said Subsequently Created Interest, and the Burdened Party shall indemnify, defend and hold harmless said other party, or 52 parties, from any and all claims and demands for payment asserted by owners of the Subsequently Created Interest.

ARTICLE IV. TITLES

55 A. Title Examination:

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wellbore path and thereafter Title examination shall be made on the / Drillsite of any proposed well prior to commencement of drilling operations and, / 56 57 if a majority in interest of the Drilling Parties so requests or Operator so elects, title examination shall be made on the entire 58 Drilling Unit, or maximum anticipated Drilling Unit, of the well. The opinion will include the ownership of the working 59 interest, minerals, royalty, overriding royalty and production payments under the applicable Leases. Each party contributing 60 Leases and/or Oil and Gas Interests to be included in the Drillsite or Drilling Unit, if appropriate, shall furnish to Operator 61 all abstracts (including federal lease status reports), title opinions, title papers and curative material in its possession free of 62 charge. All such information not in the possession of or made available to Operator by the parties, but necessary for the 63 examination of the title, shall be obtained by Operator. Operator shall cause title to be examined by attorneys on its staff or by outside attorneys. Copies of all title opinions shall be furnished to each Drilling Party. Costs incurred by Operator in and field landmen and title specialists procuring abstracts, fees paid outside attorneys / for title examination (including preliminary, supplemental, shut-in royalty 64 65 opinions and division order title opinions) and other direct charges as provided in Exhibit "C" shall be borne by the Drilling 66 67 Parties in the proportion that the interest of each Drilling Party bears to the total interest of all Drilling Parties as such interests appear in Exhibit "A." Operator shall make no charge for services rendered by its staff attorneys or other personnel 68 69 in the performance of the above functions, that exceeds prevailing rates in the area. Operator may use staff field landmen and title 70 specialists for abstracting and staff attorneys for title examination if such personnel are employed specifically for this purpose and 71 are billed at rates no higher than third party rates billed for similar services in the state where the services are rendered. Operator 72 may also charge a reasonable digital abstracting fee per tract if Operator has imaged and indexed the county records in which the 73 Contract Area is located.

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Each party shall be responsible for securing curative matter and pooling amendments or agreements required in

1 connection with Leases or Oil and Gas Interests contributed by such party. Operator shall be responsible for the preparation and recording of pooling designations or declarations and communitization agreements as well as the conduct of hearings before governmental agencies for the securing of spacing or pooling orders or any other orders necessary or appropriate to the conduct of operations hereunder. This shall not prevent any party from appearing on its own behalf at such hearings. Costs incurred by Operator, including fees paid to outside attorneys, which are associated with hearings before governmental agencies, and which costs are necessary and proper for the activities contemplated under this agreement, shall be direct charges to the joint account and shall not be covered by the administrative overhead charges as provided in Exhibit "C."

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1 Operator shall make no charge for services rendered by its staff attorneys or other personnel in the performance of the above 2 functions-, except as provided herein.

3 No well shall be drilled on the Contract Area until after (1) the title to the Drillsite / or Drilling Unit, if appropriate, has engaged or employed by the operator
4 been examined as above provided, and (2) the title has been approved by the examining attorney / or title has been accepted by all of the Drilling Parties in such well. the Operator.

6 **B. Loss or Failure of Title:**

7 1. <u>Failure of Title</u>: Should any Oil and Gas Interest or Oil and Gas Lease be lost through failure of title, which results in a 8 reduction of interest from that shown on Exhibit "A," the party credited with contributing the affected Lease or Interest 9 (including, if applicable, a successor in interest to such party) shall have ninety (90) days from final determination of title 10 failure to acquire a new lease or other instrument curing the entirety of the title failure, which acquisition will not be subject 11 to Article VIII.B., and failing to do so, this agreement, nevertheless, shall continue in force as to all remaining Oil and Gas 12 Leases and Interests; and,

(a) The party credited with contributing the Oil and Gas Lease or Interest affected by the title failure (including, if
applicable, a successor in interest to such party) shall bear alone the entire loss and it shall not be entitled to recover from
Operator or the other parties any development or operating costs which it may have previously paid or incurred, but there
shall be no additional liability on its part to the other parties hereto by reason of such title failure;

17 (b) There shall be no retroactive adjustment of expenses incurred or revenues received from the operation of the 18 Lease or Interest which has failed, but the interests of the parties contained on Exhibit "A" shall be revised on an acreage 19 basis, as of the time it is determined finally that title failure has occurred, so that the interest of the party whose Lease or 20 Interest is affected by the title failure will thereafter be reduced in the Contract Area by the amount of the Lease or Interest failed;

(c) If the proportionate interest of the other parties hereto in any producing well previously drilled on the Contract Area is increased by reason of the title failure, the party who bore the costs incurred in connection with such well attributable to the Lease or Interest which has failed shall receive the proceeds attributable to the increase in such interest (less costs and burdens attributable thereto) until it has been reimbursed for unrecovered costs paid by it in connection with such well attributable to such failed Lease or Interest;

(d) Should any person not a party to this agreement, who is determined to be the owner of any Lease or Interest
 which has failed, pay in any manner any part of the cost of operation, development, or equipment, such amount shall be paid
 to the party or parties who bore the costs which are so refunded;

(e) Any liability to account to a person not a party to this agreement for prior production of Oil and Gas which arises by reason of title failure shall be borne severally by each party (including a predecessor to a current party) who received production for which such accounting is required based on the amount of such production received, and each such party shall severally indemnify, defend and hold harmless all other parties hereto for any such liability to account;

(f) No charge shall be made to the joint account for legal expenses, fees or salaries in connection with the defense of the Lease or Interest claimed to have failed, but if the party contributing such Lease or Interest hereto elects to defend its title it shall bear all expenses in connection therewith; and

36 (g) If any party is given credit on Exhibit "A" to a Lease or Interest which is limited solely to ownership of an 37 interest in the wellbore of any well or wells and the production therefrom, such party's absence of interest in the remainder 38 of the Contract Area shall be considered a Failure of Title as to such remaining Contract Area unless that absence of interest 39 is reflected on Exhibit "A."

2. Loss by Non-Payment or Erroneous Payment of Amount Due: If, through mistake or oversight, any rental, shut-in well 40 41 payment, minimum royalty or royalty payment, or other payment necessary to maintain all or a portion of an Oil and Gas 42 Lease or interest is not paid or is erroneously paid, and as a result a Lease or Interest terminates, there shall be no monetary 43 liability against the party who failed to make such payment. Unless the party who failed to make the required payment 44 secures a new Lease or Interest covering the same interest within ninety (90) days from the discovery of the failure to make 45 proper payment, which acquisition will not be subject to Article VIII.B., the interests of the parties reflected on Exhibit "A" 46 shall be revised on an acreage basis, effective as of the date of termination of the Lease or Interest involved, and the party 47 who failed to make proper payment will no longer be credited with an interest in the Contract Area on account of ownership 48 of the Lease or Interest which has terminated. If the party who failed to make the required payment shall not have been fully reimbursed, at the time of the loss, from the proceeds of the sale of Oil and Gas attributable to the lost Lease or Interest. 49 50 calculated on an acreage basis, for the development and operating costs previously paid on account of such Lease or Interest, 51 it shall be reimbursed for unrecovered actual costs previously paid by it (but not for its share of the cost of any dry hole 52 previously drilled or wells previously abandoned) from so much of the following as is necessary to effect reimbursement:

(a) Proceeds of Oil and Gas produced prior to termination of the Lease or Interest, less operating expenses and lease
 burdens chargeable hereunder to the person who failed to make payment, previously accrued to the credit of the lost Lease or
 Interest, on an acreage basis, up to the amount of unrecovered costs;

(b) Proceeds of Oil and Gas, less operating expenses and lease burdens chargeable hereunder to the person who failed to make payment, up to the amount of unrecovered costs attributable to that portion of Oil and Gas thereafter produced and marketed (excluding production from any wells thereafter drilled) which, in the absence of such Lease or Interest termination, would be attributable to the lost Lease or Interest on an acreage basis and which as a result of such Lease or Interest termination is credited to other parties, the proceeds of said portion of the Oil and Gas to be contributed by the other parties in proportion to their respective interests reflected on Exhibit "A"; and,

62 (c) Any monies, up to the amount of unrecovered costs, that may be paid by any party who is, or becomes, the owner
 63 of the Lease or Interest lost, for the privilege of participating in the Contract Area or becoming a party to this agreement.

3. <u>Other Losses</u>: All losses of Leases or Interests committed to this agreement, other than those set forth in Articles IV.B.1. and IV.B.2. above, shall be joint losses and shall be borne by all parties in proportion to their interests shown on Exhibit "A." This shall include but not be limited to the loss of any Lease or Interest through failure to develop or because express or implied covenants have not been performed (other than performance which requires only the payment of money), and the loss of any Lease by expiration at the end of its primary term if it is not renewed or extended. There shall be no readjustment of interests in the remaining portion of the Contract Area on account of any joint loss.

4. <u>Curing Title</u>: In the event of a Failure of Title under Article IV.B.1. or a loss of title under Article IV.B.2. above, any Lease or Interest acquired by any party hereto (other than the party whose interest has failed or was lost) during the ninety (90) day period provided by Article IV.B.1. and Article IV.B.2. above covering all or a portion of the interest that has failed or was lost shall be offered at cost to the party whose interest has failed or was lost, and the provisions of Article VIII.B. shall not apply to such acquisition.

ARTICLE V. **OPERATOR**

A. Designation and Responsibilities of Operator: Chesapeake Exploration, L.L.C.

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4 _shall be the Operator of the Contract Area, and shall conduct 5 and direct and have full control of all operations on the Contract Area as permitted and required by, and within the limits of 6 this agreement. In its performance of services hereunder for the Non-Operators, Operator shall be an independent contractor not subject to the control or direction of the Non-Operators except as to the type of operation to be undertaken in accordance 7 8 with the election procedures contained in this agreement. Operator shall not be deemed, or hold itself out as, the agent of the 9 Non-Operators with authority to bind them to any obligation or liability assumed or incurred by Operator as to any third 10 party. Operator shall conduct its activities under this agreement as a reasonable prudent operator, in a good and workmanlike manner, with due diligence and dispatch, in accordance with good oilfield practice, and in compliance with applicable law and **their officers, employees or agents**, regulation, but in no event shall it have any liability as Operator to the other parties / for losses sustained or liabilities incurred 11 12 except such as may result from gross negligence or willful misconduct. 13

B. Resignation or Removal of Operator and Selection of Successor: 14

1. Resignation or Removal of Operator: Operator may resign at any time by giving written notice thereof to Non-Operators. 15 16 If Operator terminates its legal existence, no longer owns an interest hereunder in the Contract Area, or is no longer capable of 17 serving as Operator, Operator shall be deemed to have resigned without any action by Non-Operators, except the selection of a 18 successor. Operator may be removed only for good cause by the affirmative vote of Non-Operators owning a majority interest 19 based on ownership as shown on Exhibit "A" remaining after excluding the voting interest of Operator; such vote shall not be deemed effective until a written notice has been delivered to the Operator by a Non-Operator detailing the alleged default and 20 21 Operator has failed to cure the default within thirty (30) days from its receipt of the notice or, if the default concerns an 22 operation then being conducted, within forty-eight (48) hours of its receipt of the notice. For purposes hereof, "good cause" shall 23 mean not only gross negligence or willful misconduct but also the material breach of or inability to meet the standards of 24 operation contained in Article V.A. or material failure or inability to perform its obligations under this agreement.

25 Subject to Article VII.D.1., such resignation or removal shall not become effective until 7:00 o'clock A.M. on the first 26 day of the calendar month following the expiration of ninety (90) days after the giving of notice of resignation by Operator 27 or action by the Non-Operators to remove Operator, unless a successor Operator has been selected and assumes the duties of Operator at an earlier date. Operator, after effective date of resignation or removal, shall be bound by the terms hereof as a affiliate, 28 29 Non-Operator. A change of a corporate name or structure of Operator or transfer of Operator's interest to any single 30 subsidiary, parent or successor corporation shall not be the basis for removal of Operator.

31 2. Selection of Successor Operator: Upon the resignation or removal of Operator under any provision of this agreement, a 32 successor Operator shall be selected by the parties. The successor Operator shall be selected from the parties owning an interest in the Contract Area at the time such successor Operator is selected. The successor Operator shall be selected by the 33 affirmative vote of two (2) or more parties owning a majority interest based on ownership as shown on Exhibit "A"; provided, however, if an Operator which has been removed or is deemed to have resigned / fails to vote or votes only to for itself or an affiliate, succeed itself, / the successor Operator shall be selected by the affirmative vote of the party or parties owning a majority 34 35 36 interest based on ownership as shown on Exhibit "A" remaining after excluding the voting interest of the Operator that was and its affiliates and, provided further, that the requirement for two (2) or more parties shall not apply in the event that two (2) or fewer parties are entitled to vote. removed or resigned /. The former Operator shall promptly deliver to the successor Operator all records and data relating to 37 38 39 the operations conducted by the former Operator to the extent such records and data are not already in the possession of the 40 successor operator. Any cost of obtaining or copying the former Operator's records and data shall be charged to the joint 41 account. 42

3. Effect of Bankruptcy: If Operator becomes insolvent, bankrupt or is placed in receivership, it shall be deemed to have 43 resigned without any action by Non-Operators, except the selection of a successor. If a petition for relief under the federal terms of the Bankruptcy Code or actions of the federal bankruptcy court, then, to the extent allowed by law, bankruptcy laws is filed by or against Operator, and the removal of Operator is prevented by the / federal bankruptcy court, all 44 45 Non-Operators and Operator shall comprise an interim operating committee to serve until Operator has elected to reject or 46 assume this agreement pursuant to the Bankruptcy Code, and an election to reject this agreement by Operator as a debtor in 47 possession, or by a trustee in bankruptcy, shall be deemed a resignation as Operator without any action by Non-Operators, 48 except the selection of a successor. During the period of time the operating committee controls operations, all actions shall 49 require the approval of two (2) or more parties owning a majority interest based on ownership as shown on Exhibit "A." In 50 the event there are only two (2) parties to this agreement, during the period of time the operating committee controls 51 operations, a third party acceptable to Operator, Non-Operator and the federal bankruptcy court shall be selected as a 52 member of the operating committee, and all actions shall require the approval of two (2) members of the operating 53 committee without regard for their interest in the Contract Area based on Exhibit "A." 54

C. Employees and Contractors: 55

The number of employees or contractors used by Operator in conducting operations hereunder, their selection, and the 56 hours of labor and the compensation for services performed shall be determined Operator, and all such employees or 57 contractors shall be the employees or contractors of Operator. 58

D. Rights and Duties of Operator:

and Duties of Operator: Operations conducted in conducted 1. <u>Competitive Rates and Use of Affiliates</u>: All / wells drilled on the Contract Area shall be drilled / on a competitive state where the services were rendered asis at the usual rates prevailing in the /-area. If it so desires, Operator may employ its own tools and equipment in performing such operations state where the services were rendered g of wells /, but its charges therefor shall not exceed the prevailing rates in the / area and the rate of such charges 59 60 contract basis 61 the drilling of 62 shall be agreed upon by the parties in writing before drilling operations are commenced, and such work shall be performed by 63 Operator under the same terms and conditions as are customary and usual in the area in contracts of independent contractors 64 who are doing work of a similar nature. All work performed or materials supplied by affiliates or related parties of Operator 65 shall be performed or supplied at competitive rates, pursuant to written agreement, and in accordance with customs and 66 standards prevailing in the industry. 67

2. Discharge of Joint Account Obligations: Except as herein otherwise specifically provided, Operator shall promptly pay 68 and discharge expenses incurred in the development and operation of the Contract Area pursuant to this agreement and shall 69 charge each of the parties hereto with their respective proportionate shares upon the expense basis provided in Exhibit "C." 70 Operator shall keep an accurate record of the joint account hereunder, showing expenses incurred and charges and credits 71 made and received. 72

3. Protection from Liens: Operator shall pay, or cause to be paid, as and when they become due and payable, all accounts 73 of contractors and suppliers and wages and salaries for services rendered or performed, and for materials supplied on, to or in 74 respect of the Contract Area or any operations for the joint account thereof, and shall keep the Contract Area free from

1 liens and encumbrances resulting therefrom except for those resulting from a bona fide dispute as to services rendered or 2 materials supplied.

3 4. Custody of Funds: Operator shall hold for the account of the Non-Operators any funds of the Non-Operators advanced 4 or paid to the Operator, either for the conduct of operations hereunder or as a result of the sale of production from the 5 Contract Area, and such funds shall remain the funds of the Non-Operators on whose account they are advanced or paid until 6 used for their intended purpose or otherwise delivered to the Non-Operators or applied toward the payment of debts as provided in Article VII.B. Nothing in this paragraph shall be construed to establish a fiduciary relationship between Operator 7 and Non-Operators for any purpose other than to account for Non-Operator funds as herein specifically provided. Nothing in 8 9 this paragraph shall require the maintenance by Operator of separate accounts for the funds of Non-Operators unless the 10 parties otherwise specifically agree.

5. <u>Access to Contract Area and Records:</u> Operator shall, except as otherwise provided herein, permit each / Non-Operator or its duly authorized representative, at the / Non-Operator's sole risk and cost, full and free access at all reasonable times to 11 12 all operations of every kind and character being conducted for the joint account on the Contract Area and to the records of 13 14 operations conducted thereon or production therefrom, including Operator's books and records relating thereto. Such access 15 rights shall not be exercised in a manner interfering with Operator's conduct of an operation hereunder and shall not obligate Operator to furnish any geologic or geophysical data of an interpretive nature unless the cost of preparation of such Consenting Party interpretive data was charged to the joint account. Operator will furnish to each / Non-Operator upon request copies of any 16 17 18 and all reports and information obtained by Operator in connection with production and related items, including, without 19 limitation, meter and chart reports, production purchaser statements, run tickets and monthly gauge reports, but excluding 20 purchase contracts and pricing information to the extent not applicable to the production of the Non-Operator seeking the 21 information. Any audit of Operator's records relating to amounts expended and the appropriateness of such expenditures 22 shall be conducted in accordance with the audit protocol specified in Exhibit "C."

 6. <u>Filing and Furnishing Governmental Reports:</u> Operator will file, and upon written request promptly furnish copies to Consenting Party
 each requesting / Non-Operator not in default of its payment obligations, all operational notices, reports or applications
 required to be filed by local, State, Federal or Indian agencies or authorities having jurisdiction over operations hereunder.
 Each Non-Operator shall provide to Operator on a timely basis all information necessary to Operator to make such filings.
 7. <u>Drilling and Testing Operations</u>: The following provisions shall apply to each well drilled / hereunder, including but not
 limited to the Initial Well:

(a) Operator will promptly advise / Non-Operators of the date on which the well is spudded, or the date on which
 drilling operations are commenced.

drilling operations are commenced.
 (b) Operator will send to / Non-Operators such reports, test results and notices regarding the progress of operations on the Consenting Parties
 well as the / Non-Operators shall reasonably request, including, but not limited to, daily drilling reports, completion reports, and well logs.

(c) Operator shall adequately test all Zones encountered which may reasonably be expected to be capable of producing
 Oil and Gas in paying quantities as a result of examination of the electric log or any other logs or cores or tests conducted
 hereunder.

8. <u>Cost Estimates:</u> Upon request of any Consenting Party, Operator shall furnish estimates of current and cumulative costs
 incurred for the joint account at reasonable intervals during the conduct of any operation pursuant to this agreement.
 Operator shall not be held liable for errors in such estimates so long as the estimates are made in good faith.

9. <u>Insurance:</u> At all times while operations are conducted hereunder, Operator shall comply with the workers compensation law of the state where the operations are being conducted; provided, however, that Operator may be a selfinsurer for liability under said compensation laws in which event the only charge that shall be made to the joint account shall be as provided in Exhibit "C." Operator shall also carry or provide insurance for the benefit of the joint account of the parties as outlined in Exhibit "D" attached hereto and made a part hereof. Operator shall require all contractors engaged in work on or for the Contract Area to comply with the workers compensation law of the state where the operations are being conducted and to maintain such other insurance as Operator may require.

46 In the event automobile liability insurance is specified in said Exhibit "D," or subsequently receives the approval of the 47 parties, no direct charge shall be made by Operator for premiums paid for such insurance for Operator's automotive 48 equipment.

ARTICLE VI. DRILLING AND DEVELOPMENT

51 A. Initial Well:

 52
 On or before the ______ day of ______, Operator shall commence the drilling of the Initial

 53
 Well at the following location: Operator anticipates commencing the drilling of the Initial Well within one (1) years of the effective

 54
 date of the Unitization Order issued by the Division,

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and shall thereafter continue the drilling of the well with due diligence to a depth sufficient in the Operator's reasonable opinion, to adequately test the Utica/Point Pleasant formation with the Initial Well.

In the event a Party elects not to participate (a Non-Consenting Party) in the Initial Well proposed in the Contract Area 59 pursuant to Article VI.A., upon the timely commencement of actual drilling operations on such Well, such Non-Consenting Party 60 shall be deemed to have relinquished to the Consenting Parties, and the Consenting Parties shall own and be entitled to receive, in 61 proportion to their respective interests, all of such Non-Consenting Party's interest in the well and share of production therefrom 62 until the proceeds of the sale of such share, calculated at the well, or market value thereof if such share is not sold, (after deducting 63 production taxes, excise taxes, royalty, overriding royalty and other interests not excepted by Article III.C. payable out of or 64 measured by the production from such well accruing with respect to such interest until it reverts) shall equal the total of the 65 following: (a) 500% of such Non-Consenting Party's share of the cost of any newly acquired surface equipment beyond the 66 wellhead connections (including, but not limited to, stock tanks, separators, treaters, pumping equipment and piping), plus 500% 67 of such Non-Consenting Party's share of the cost of operation of the well commencing with first production and continuing until 68 such Non-Consenting Party's relinquished interest shall revert to it under other provisions of this Article, it being agreed that such 69 Non-Consenting Party's share of such costs and equipment will be that interest which would have been chargeable to such Non-70 Consenting Party had it participated in the well from the beginning of the operations; and (b) 500% of that portion of the costs and 71 expenses of drilling, testing and completing, after deducting any cash contributions received under Article III.C., and 500% of that 72 portion of the cost of newly acquired equipment in the well (to and including wellhead connections), which would have been 73 chargeable to such Non-Consenting Party if it had participated therein. Such Non-Consenting Party shall, furthermore, be solely responsible for paying out-of-pocket any royalty, overriding royalty, production payment or other burden on production in excess of the amount stipulated in Article III.B. 74

The drilling of the Initial Well and the participation therein by all parties is obligatory, subject to Article VI.C.1. as to participation

in Completion operations and Article VI.F. as to termination of operations and Article XI as to occurrence of force majeure.

B. Subsequent Operations:

 b. Subsequent Operations:
 Operator
 1. Proposed Operations: If / any party hereto should desire to drill any well on the Contract Area other than the Initial Well, or Operator
 if / any party should desire to Rework, Sidetrack, Deepen, Recomplete or Plug Back a dry hole or a well no longer capable of producing in paying quantities in which such party has not otherwise relinquished its interest in the proposed objective Zone under this agreement, the party desiring to drill, Rework, Sidetrack, Deepen, Recomplete or Plug Back such a well shall give written notice of the proposed operation to the parties who have not otherwise relinquished their interest in such objective Zone [REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

1 under this agreement and to all other parties in the case of a proposal for Sidetracking or Deepening, specifying the work to be 2 performed, the location, proposed depth, objective Zone and the estimated cost of the operation. The parties to whom such a 3 notice is delivered shall have thirty (30) days after receipt of the notice within which to notify the party proposing to do the work 4 whether they elect to participate in the cost of the proposed operation. If a drilling rig is on location, notice of a proposal to Rework, Sidetrack, Recomplete, Plug Back or Deepen may be given by telephone and the response period shall be limited to forty-inclusive eight (48) hours, / exclusive of Saturday, Sunday and legal holidays. Failure of a party to whom such notice is delivered to reply 5 6 within the period above fixed shall constitute an election by that party not to participate in the cost of the proposed operation. 7 Any proposal by a party to conduct an operation conflicting with the operation initially proposed shall be delivered to all parties 8 within the time and in the manner provided in Article VI.B.6. No Party may elect to participate in any well proposed pursuant to this Agreement with less than its full and undivided working interest in the Contract Area. If all parties to whom such notice is delivered elect to participate in such a proposed operation, the parties shall be 9 10 11 contractually committed to participate therein provided such operations are commenced within the time period hereafter set forth, and Operator shall, no later than ninety (90) days after expiration of the notice period of thirty (30) days (or as 12 13 promptly as practicable after the expiration of the forty-eight (48) hour period when a drilling rig is on location, as the case 14 may be), actually commence the proposed operation and thereafter complete it with due diligence at the risk and expense of 15 the parties participating therein; provided, however, said commencement date may be extended upon written notice of same 16 by Operator to the other parties, for a period of up to thirty (30) additional days if, in the sole opinion of Operator, such 17 additional time is reasonably necessary to obtain permits from governmental authorities, surface rights (including rights-of-18 way) or appropriate drilling equipment, or to complete title examination or curative matter required for title approval or acceptance. If the actual operation has not been commenced within the time provided (including any extension thereof as 19 specifically permitted herein or in the force majeure provisions of Article XI) and if any party hereto still desires to conduct 20 21 said operation, written notice proposing same must be resubmitted to the other parties in accordance herewith as if no prior proposal had been made. Those parties that did not participate in the drilling of a well for which a proposal to Deepen or 22 23 Sidetrack is made hereunder shall, if such parties desire to participate in the proposed Deepening or Sidetracking operation, 24 reimburse the Drilling Parties in accordance with Article VI.B.4. in the event of a Deepening operation and in accordance 25 with Article VI.B.5. in the event of a Sidetracking operation.

Operations by Less Than All Parties:

26

27 (a) Determination of Participation. If any party to whom such notice is delivered as provided in Article VI.B.1. or 28 VI.C.1. (Option No. 2) elects not to participate in the proposed operation, then, in order to be entitled to the benefits of this **Operator** Article, / the party or parties giving the notice and such other parties as shall elect to participate in the operation shall, no one hundred eighty (180) later than / ninety (90) days after the expiration of the notice period of thirty (30) days (or as promptly as practicable after the 29 30 31 expiration of the forty-eight (48) hour period when a drilling rig is on location, as the case may be) actually commence the proposed operation * and complete it with due diligence; provided, however, said commencement date may be extended, upon written notice of same by Operator to the other parties, for a reasonable period if, in the sole opinion of Operator, such additional time is reasonably necessary to obtain permits from governmental authorities, surface rights (including rights-of-way) or appropriate drilling equipment, or to complete title examination or curative matter required for title approval or acceptence. Operator shall perform all work for the title examination or curative matter required for the account of the terms. 32 33 34 Parties; provided, however, if no drilling rig or other equipment is on location, and if Operator is a Non-Consenting Party, 35 36 the Consenting Parties shall either: (i) request Operator to perform the work required by such proposed operation for the 37 account of the Consenting Parties, or (ii) designate one of the Consenting Parties as Operator to perform such work. The 38 rights and duties granted to and imposed upon the Operator under this agreement are granted to and imposed upon the party 39 designated as Operator for an operation in which the original Operator is a Non-Consenting Party. Consenting Parties, when conducting operations on the Contract Area pursuant to this Article VI.B.2., shall comply with all terms and conditions of this 40 agreement. *Nothing contained herein shall prohibit Operator from actually commencing the proposed operation before the expiration of the notice period, nor shall such commencement affect in any way the validity of a party's election or deemed election. If less than all parties approve any proposed operation, the proposing party Operator, immediately after the expiration of the 41 42 43 applicable notice period, shall advise all Parties of the total interest of the parties approving such operation and its 44 recommendation as to whether the Consenting Parties should proceed with the operation as proposed. Each Consenting Party, within forty-eight (48) hours (exclusive of Saturday, Sunday, and legal holidays) after delivery of such notice, shall advise the Operator proposing party / of its desire to (i) limit participation to such party's interest as shown on Exhibit "A" or (ii) carry only its 45 proposing party / 46 proportionate part (determined by dividing such party's interest in the Contract Area by the interests of all Consenting Parties in 47 the Contract Area) of Non-Consenting Parties' interests, or (iii) carry its proportionate part (determined as provided in (ii)) of 48 Non-Consenting Parties' interests together with all or a portion of its proportionate part of any Non-Consenting Parties' 49 50 interests that any Consenting Party did not elect to take. Any interest of Non-Consenting Parties that is not carried by a 51 Consenting Party shall be deemed to be carried by the party proposing the operation if such party does not withdraw its 52 proposal. Failure to advise the proposing party within the time required shall be deemed an election under (i). In the event a drilling rig is on location, notice may be given by telephone, and the time permitted for such a response shall not exceed a **Operator** total of forty-eight (48) hours (exclusive of Saturday, Sunday and legal holidays). The / proposing party, at its election, may 53 54 proposing party, at its election, may withdraw such proposal if there is less than 100% participation and shall notify all parties of such decision within ten (10) 55 days, or within twenty-four (24) hours if a drilling rig is on location, following expiration of the applicable response period. 56 57 If 100% subscription to the proposed operation is obtained, the proposing party shall promptly notify the Consenting Parties 58 of their proportionate interests in the operation and the party serving as Operator shall commence such operation within the 59 period provided in Article VI.B.1., subject to the same extension right as provided therein.

60 (b) Relinquishment of Interest for Non-Participation. The entire cost and risk of conducting such operations shall be 61 borne by the Consenting Parties in the proportions they have elected to bear same under the terms of the preceding 62 Consenting Parties shall keep the leasehold estates involved in such operations free and clear of all liens and paragraph. encumbrances of every kind created by or arising from the operations of the Consenting Parties. If such an operation results 63 64 in a dry hole, then subject to Articles VI.B.6. and VI.E.3., the Consenting Parties shall plug and abandon the well and restore 65 the surface location at their sole cost, risk and expense; provided, however, that those Non-Consenting Parties that 66 participated in the drilling, Deepening or Sidetracking of the well shall remain liable for, and shall pay, their proportionate shares of the cost of plugging and abandoning the well and restoring the surface location insofar only as those costs were not 67 68 increased by the subsequent operations of the Consenting Parties. The Consenting Parties shall bear proportionately the well costs attributed to any unleased or uncommitted owners in the Contract Area. If any well drilled, Reworked, Sidetracked, Deepened, 69 Recompleted or Plugged Back under the provisions of this Article results in a well capable of producing Oil and/or Gas in 70 paying quantities, the Consenting Parties shall Complete and equip the well to produce at their sole cost and risk, and the 71 well shall then be turned over to Operator (if the Operator did not conduct the operation) and shall be operated by it at the 72 expense and for the account of the Consenting Parties. Upon commencement of operations for the drilling, Reworking, 73 Sidetracking, Recompleting, Deepening or Plugging Back of any such well by Consenting Parties in accordance with the 74

provisions of this Article, each Non-Consenting Party shall be deemed to have relinquished to Consenting Parties, and the Consenting Parties shall own and be entitled to receive, in proportion to their respective interests, all of such Non-Consenting Party's interest in the well and share of production therefrom (however, such Non-Consenting Party shall, nevertheless, still be solely responsible for paying out-of-pocket any royalty, overriding royalty, production payment or other burden on production in excess of the amount stipulated in Article III.B) or, in the case of a Reworking, Sidetracking, [REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

1 Deepening, Recompleting or Plugging Back, or a Completion pursuant to Article VI.C.1. Option No. 2, all of such Non-

2 Consenting Party's interest in the production obtained from the operation in which the Non-Consenting Party did not elect 3 to participate. Such relinquishment shall be effective until the proceeds of the sale of such share, calculated at the well, or 4 market value thereof if such share is not sold (after deducting applicable ad valorem, production, severance, and excise taxes, 5 royalty, overriding royalty and other interests not excepted by Article III.C. payable out of or measured by the production 6 from such well accruing with respect to such interest until it reverts), shall equal the total of the following:

7 (i) <u>500</u>% of each such Non-Consenting Party's share of the cost of any newly acquired surface equipment 8 beyond the wellhead connections (including but not limited to stock tanks, separators, treaters, pumping equipment and 9 piping), plus 7 100% of each such Non-Consenting Party's share of the cost of operation of the well commencing with first 10 production and continuing until each such Non-Consenting Party's relinquished interest shall revert to it under other 11 provisions of this Article, it being agreed that each Non-Consenting Party's share of such costs and equipment will be that 12 interest which would have been chargeable to such Non-Consenting Party had it participated in the well from the beginning 13 of the operations; and

(ii) <u>500</u>% of (a) that portion of the costs and expenses of drilling, Reworking, Sidetracking, Deepening,
 Plugging Back, testing, Completing, and Recompleting, after deducting any cash contributions received under Article VIII.C.,
 and / of (b) that portion of the cost of newly acquired equipment in the well (to and including the wellhead connections),
 which would have been chargeable to such Non-Consenting Party if it had participated therein.

18 Notwithstanding anything to the contrary in this Article VI.B., if the well does not reach the deepest objective Zone described in the notice proposing the well for reasons other than the encountering of granite or practically impenetrable 19 20 substance or other condition in the hole rendering further operations impracticable, Operator shall give notice thereof to each Non-Consenting Party who submitted or voted for an alternative proposal under Article VI.B.6. to drill the well to a 21 shallower Zone than the deepest objective Zone proposed in the notice under which the well was drilled, and each such Non-22 23 Consenting Party shall have the option to participate in the initial proposed Completion of the well by paying its share of the 24 cost of drilling the well to its actual depth, calculated in the manner provided in Article VI.B.4. (a). If any such Non-25 Consenting Party does not elect to participate in the first Completion proposed for such well, the relinquishment provisions 26 of this Article VI.B.2. (b) shall apply to such party's interest.

27 (c) <u>Reworking, Recompleting or Plugging Back.</u> An election not to participate in the drilling, Sidetracking or 28 Deepening of a well shall be deemed an election not to participate in any Reworking or Plugging Back operation proposed in 29 such a well, or portion thereof, to which the initial non-consent election applied that is conducted at any time prior to full 30 recovery by the Consenting Parties of the Non-Consenting Party's recoupment amount. Similarly, an election not to 31 participate in the Completing or Recompleting of a well shall be deemed an election not to participate in any Reworking 32 operation proposed in such a well, or portion thereof, to which the initial non-consent election applied that is conducted at any time prior to full recovery by the Consenting Parties of the Non-Consenting Party's recoupment amount. Any such 33 34 Reworking, Recompleting or Plugging Back operation conducted during the recoupment period shall be deemed part of the cost of operation of said well and there shall be added to the sums to be recouped by the Consenting Parties 500 % of 35 36 that portion of the costs of the Reworking, Recompleting or Plugging Back operation which would have been chargeable to 37 such Non-Consenting Party had it participated therein. If such a Reworking, Recompleting or Plugging Back operation is 38 proposed during such recoupment period, the provisions of this Article VI.B. shall be applicable as between said Consenting 39 Parties in said well.

(d) <u>Recoupment Matters.</u> During the period of time Consenting Parties are entitled to receive Non-Consenting Party's
 share of production, or the proceeds therefrom, Consenting Parties shall be responsible for the payment of all ad valorem,
 production, severance, excise, gathering and other taxes, and all royalty, overriding royalty and other burdens applicable to
 Non-Consenting Party's share of production not excepted by Article III.C.

In the case of any Reworking, Sidetracking, Plugging Back, Recompleting or Deepening operation, the Consenting Parties shall be permitted to use, free of cost, all casing, tubing and other equipment in the well, but the ownership of all such equipment shall remain unchanged; and upon abandonment of a well after such Reworking, Sidetracking, Plugging Back, Recompleting or Deepening, the Consenting Parties shall account for all such equipment to the owners thereof, with each party receiving its proportionate part in kind or in value, less cost of salvage. Within ninety (90) / days after the completion of any operation under this Article, the party conducting the operations

49 for the Consenting Parties shall furnish each Non-Consenting Party with an inventory of the equipment in and connected to 50 51 the well, and an itemized statement of the cost of drilling, Sidetracking, Deepening, Plugging Back, testing, Completing, the well, and an itemized statement of the cost of drining, blockweiting, sectoring, sectoring, sectoring, and equipping the well for production; or, at its option, the operating party, in lieu of an itemized statement **At least each quarter**. 52 53 54 Consenting Parties are being reimbursed as provided above, the party conducting the operations for the Consenting Parties shall furnish the Non-Consenting Parties with an itemized statement of all costs and liabilities incurred in the operation of 55 the well, together with a statement of the quantity of Oil and Gas produced from it and the amount of proceeds realized from the sale of the well's working interest production during the preceding month /. In determining the quantity of Oil and Gas 56 57 58 produced during any month, Consenting Parties shall use industry accepted methods such as but not limited to metering or 59 periodic well tests. Any amount realized from the sale or other disposition of equipment newly acquired in connection with 60 any such operation which would have been owned by a Non-Consenting Party had it participated therein shall be credited 61 against the total unreturned costs of the work done and of the equipment purchased in determining when the interest of such Non-Consenting Party shall revert to it as above provided; and if there is a credit balance, it shall be paid to such Non-62 63 Consenting Party.

If and when the Consenting Parties recover from a Non-Consenting Party's relinquished interest the amounts provided first day of the month for above, the relinquished interests of such Non-Consenting Party shall automatically revert to it as of 7:00 a.m. on the / day following the day on which such recoupment occurs, and, from and after such reversion, such Non-Consenting Party shall own the same interest in such well, the material and equipment in or pertaining thereto, and the production therefrom as such Non-Consenting Party would have been entitled to had it participated in the drilling, Sidetracking, Reworking, Deepening, Recompleting or Plugging Back of said well. Thereafter, such Non-Consenting Party shall be charged with and shall pay its proportionate part of the further costs of the operation of said well in accordance with the terms of this agreement and Exhibit "C" attached hereto.

72 3. <u>Stand-By Costs:</u> When a well which has been drilled or Deepened has reached its authorized depth and all tests have 73 been completed and the results thereof furnished to the parties, or when operations on the well have been otherwise 74 terminated pursuant to Article VI.F., stand-by costs incurred pending response to a party's notice proposing a Reworking,

1 Sidetracking, Deepening, Recompleting, Plugging Back or Completing operation in such a well (including the period required 2 under Article VI.B.6. to resolve competing proposals) shall be charged and borne as part of the drilling or Deepening 3 operation just completed. Stand-by costs subsequent to all parties responding, or expiration of the response time permitted, 4 whichever first occurs, and prior to agreement as to the participating interests of all Consenting Parties pursuant to the terms of the second grammatical paragraph of Article VI.B.2. (a), shall be charged to and borne as part of the proposed operation, 5 6 but if the proposal is subsequently withdrawn because of insufficient participation, such stand-by costs shall be allocated between the Consenting Parties in the proportion each Consenting Party's interest as shown on Exhibit "A" bears to the total 7 8 interest as shown on Exhibit "A" of all Consenting Parties.

9 In the event that notice for a Sidetracking operation is given while the drilling rig to be utilized is on location, any party 10 may request and receive up to five (5) additional days after expiration of the forty-eight hour response period specified in 11 Article VI.B.1. within which to respond by paying for all stand-by costs and other costs incurred during such extended 12 response period; Operator may require such party to pay the estimated stand-by time in advance as a condition to extending 13 the response period. If more than one party elects to take such additional time to respond to the notice, standby costs shall be 14 allocated between the parties taking additional time to respond on a day-to-day basis in the proportion each electing party's 15 interest as shown on Exhibit "A" bears to the total interest as shown on Exhibit "A" of all the electing parties.

4. <u>Deepening</u>: If less than all parties elect to participate in a drilling, Sidetracking, or Deepening operation proposed pursuant to Article VI.B.1., the interest relinquished by the Non-Consenting Parties to the Consenting Parties under Article VI.B.2. shall relate only and be limited to the lesser of (i) the total depth actually drilled or (ii) the objective depth or Zone of which the parties were given notice under Article VI.B.1. ("Initial Objective"). / Such well shall not be Deepened beyond the Initial Objective without first complying with this Article to afford the Non-Consenting Parties the opportunity to participate in the Deepening operation.

In the event any Consenting Party desires to drill or Deepen a Non-Consent Well-to a depth below the Initial Objective, such party shall give notice thereof, complying with the requirements of Article VI.B.1., to all parties (including Non-Consenting Parties). Thereupon, Articles VI.B.1. and 2. shall apply and all parties receiving such notice shall have the right to participate or not participate in the Deepening of such well pursuant to said Articles VI.B.1. and 2. If a Deepening operation is approved pursuant to such provisions, and if any Non-Consenting Party elects to participate in the Deepening operation, such Non-Consenting party shall pay or make reimbursement (as the case may be) of the following costs and expenses.

28 (a) If the proposal to Deepen is made prior to the Completion of such well as a well capable of producing in paying 29 quantities, such Non-Consenting Party shall pay (or reimburse Consenting Parties for, as the case may be) that share of costs 30 and expenses incurred in connection with the drilling of said well from the surface to the Initial Objective which Non-31 Consenting Party would have paid had such Non-Consenting Party agreed to participate therein, plus the Non-Consenting 32 Party's share of the cost of Deepening and of participating in any further operations on the well in accordance with the other 33 provisions of this Agreement; provided, however, all costs for testing and Completion or attempted Completion of the well 34 incurred by Consenting Parties prior to the point of actual operations to Deepen beyond the Initial Objective shall be for the 35 sole account of Consenting Parties.

36 (b) If the proposal is made for a Non-Consent Well that has been previously Completed as a well capable of producing 37 in paying quantities, but is no longer capable of producing in paying quantities, such Non-Consenting Party shall pay (or 38 reimburse Consenting Parties for, as the case may be) its proportionate share of all costs of drilling, Completing, and 39 equipping said well from the surface to the Initial Objective, calculated in the manner provided in paragraph (a) above, less 40 those costs recouped by the Consenting Parties from the sale of production from the well. The Non-Consenting Party shall also pay its proportionate share of all costs of re-entering said well. The Non-Consenting Parties' proportionate part (based 41 42 on the percentage of such well Non-Consenting Party would have owned had it previously participated in such Non-Consent 43 Well) of the costs of salvable materials and equipment remaining in the hole and salvable surface equipment used in connection with such well shall be determined in accordance with Exhibit "C." If the Consenting Parties have recouped the 44 45 cost of drilling, Completing, and equipping the well at the time such Deepening operation is conducted, then a Non-46 Consenting Party may participate in the Deepening of the well with no payment for costs incurred prior to re-entering the 47 well for Deepening

48 The foregoing shall not imply a right of any Consenting Party to propose any Deepening for a Non-Consent Well prior 49 to the drilling of such well to its Initial Objective without the consent of the other Consenting Parties as provided in Article 50 VI.F.

51 5. <u>Sidetracking:</u> Any party having the right to participate in a proposed Sidetracking operation that does not own an 52 interest in the affected wellbore at the time of the notice shall, upon electing to participate, tender to the wellbore owners its 53 proportionate share (equal to its interest in the Sidetracking operation) of the value of that portion of the existing wellbore 54 to be utilized as follows:

(a) If the proposal is for Sidetracking an existing dry hole, reimbursement shall be on the basis of the actual costs
 incurred in the initial drilling of the well down to the depth at which the Sidetracking operation is initiated.

57 (b) If the proposal is for Sidetracking a well which has previously produced, reimbursement shall be on the basis of 58 such party's proportionate share of drilling and equipping costs incurred in the initial drilling of the well down to the depth 59 at which the Sidetracking operation is conducted, calculated in the manner described in Article VI.B.4(b) above. Such party's 50 proportionate share of the cost of the well's salvable materials and equipment down to the depth at which the Sidetracking 51 operation is initiated shall be determined in accordance with the provisions of Exhibit "C."

62 6. Order of Preference of Operations. Except as otherwise specifically provided in this agreement, if any party desires to 63 propose the conduct of an operation that conflicts with a proposal that has been made by a party under this Article VI, such 64 party shall have fifteen (15) days from delivery of the initial proposal, in the case of a proposal to drill a well or to perform 65 an operation on a well where no drilling rig is on location, or twenty-four (24) hours, exclusive of Saturday, Sunday and legal 66 holidays, from delivery of the initial proposal, if a drilling rig is on location for the well on which such operation is to be conducted, to deliver to all parties entitled to participate in the proposed operation such party's alternative proposal, such 67 alternate proposal to contain the same information required to be included in the initial proposal. Each party receiving such 68 69 proposals shall elect by delivery of notice to Operator within five (5) days after expiration of the proposal period, or within 70 twenty-four (24) hours (exclusive of Saturday, Sunday and legal holidays) if a drilling rig is on location for the well that is the 71 subject of the proposals, to participate in one of the competing proposals. Any party not electing within the time required shall be deemed not to have voted. The proposal receiving the vote of parties owning the largest aggregate percentage 72 73 interest of the parties voting shall have priority over all other competing proposals; in the case of a tie vote, the 74

1 initial proposal shall prevail. Operator shall deliver notice of such result to all parties entitled to participate in the operation 2 within five (5) days after expiration of the election period (or within twenty-four (24) hours, exclusive of Saturday, Sunday 3 and legal holidays, if a drilling rig is on location). Each party shall then have two (2) days (or twenty-four (24) hours if a rig 4 is on location) from receipt of such notice to elect by delivery of notice to Operator to participate in such operation or to relinquish interest in the affected well pursuant to the provisions of Article VI.B.2.; failure by a party to deliver notice within 5 6 such period shall be deemed an election not to participate in the prevailing proposal.

7. Conformity to Spacing Pattern. Notwithstanding the provisions of this Article VI.B.2., it is agreed that no wells shall be 7 8 proposed to be drilled to or Completed in or produced from a Zone from which a well located elsewhere on the Contract 9 Area is producing, unless such well conforms to the then-existing well spacing pattern for such Zone.

10 8. Paying Wells. No party shall conduct any Reworking, Deepening, Plugging Back, Completion, Recompletion, or 11 Sidetracking operation under this agreement with respect to any well then capable of producing in paying quantities except 12 with the consent of all parties that have not relinquished interests in the well at the time of such operation.

13 C. Completion of Wells; Reworking and Plugging Back:

1. Completion: Without the consent of all parties, no well shall be drilled, Deepened or Sidetracked, except any well 14 15 drilled, Deepened or Sidetracked pursuant to the provisions of Article VI.B.2. of this agreement. Consent to the drilling, 16

Deepening or Sidetracking shall include: For Horizontal Wells and Multi-Lateral Wells , all Option No. 1: All / necessary expenditures for the drilling, Deepening, equipping of the well, including tankage and/or surface

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facilities. See also Article XVLE. For Vertical Wells, all Option No. 2: All / necessary expenditures for the drilling, Deepening or Sidetracking and testing of the well. When 19 \boxtimes Option No. 20 such well has reached its authorized depth, and all logs, cores and other tests have been completed, and the results 21 thereof furnished to the parties, Operator shall give immediate notice to the Non-Operators having the right to 22 participate in a Completion attempt whether or not Operator recommends attempting to Complete the well, 23 together with Operator's AFE for Completion costs if not previously provided. The parties receiving such notice 24 shall have forty-eight (48) hours (exclusive of Saturday, Sunday and legal holidays) in which to elect by delivery of 25 notice to Operator to participate in a recommended Completion attempt or to make a Completion proposal with an 26 accompanying AFE. Operator shall deliver any such Completion proposal, or any Completion proposal conflicting 27 with Operator's proposal, to the other parties entitled to participate in such Completion in accordance with the 28 procedures specified in Article VI.B.6. Election to participate in a Completion attempt shall include consent to all 29 necessary expenditures for the Completing and equipping of such well, including necessary tankage and/or surface 30 facilities but excluding any stimulation operation not contained on the Completion AFE. Failure of any party 31 receiving such notice to reply within the period above fixed shall constitute an election by that party not to 32 participate in the cost of the Completion attempt; provided, that Article VI.B.6. shall control in the case of 33 conflicting Completion proposals. If one or more, but less than all of the parties, elect to attempt a Completion, the 34 provision of Article VI.B.2. hereof (the phrase "Reworking, Sidetracking, Deepening, Recompleting or Plugging 35 Back" as contained in Article VI.B.2. shall be deemed to include "Completing") shall apply to the operations 36 thereafter conducted by less than all parties; provided, however, that Article VI.B.2. shall apply separately to each 37 separate Completion or Recompletion attempt undertaken hereunder, and an election to become a Non-Consenting 38 Party as to one Completion or Recompletion attempt shall not prevent a party from becoming a Consenting Party 39 in subsequent Completion or Recompletion attempts regardless whether the Consenting Parties as to earlier Completions or Recompletion have recouped their costs pursuant to Article VI.B.2.; provided further, that any 40 41 recoupment of costs by a Consenting Party shall be made solely from the production attributable to the Zone in 42 which the Completion attempt is made. Election by a previous Non-Consenting party to participate in a subsequent 43 Completion or Recompletion attempt shall require such party to pay its proportionate share of the cost of salvable 44 materials and equipment installed in the well pursuant to the previous Completion or Recompletion attempt, 45 insofar and only insofar as such materials and equipment benefit the Zone in which such party participates in a 46 Completion attempt. See also Article XVI.E.

47 2. Rework, Recomplete or Plug Back: No well shall be Reworked, Recompleted or Plugged Back except a well Reworked, Recompleted, or Plugged Back pursuant to the provisions of Article VI.B.2. of this agreement. Consent to the Reworking, 48 Recompleting or Plugging Back of a well shall include all necessary expenditures in conducting such operations and 49 50 Completing and equipping of said well, including necessary tankage and/or surface facilities. 51 **D.** Other Operations:

Operator shall not undertake any single project reasonably estimated to require an expenditure in excess of Fifty Thousand

53 Dollars (\$ 50,000.00 ___) except in connection with the 54 drilling, Sidetracking, Reworking, Deepening, Completing, Recompleting or Plugging Back of a well that has been previously authorized by or pursuant to this agreement; provided, however, that, in case of explosion, fire, flood or other sudden 55 56 emergency, whether of the same or different nature, Operator may take such steps and incur such expenses as in its opinion 57 are required to deal with the emergency to safeguard life and property but Operator, as promptly as possible, shall report the 58 emergency to the other parties. If Operator prepares an AFE for its own use, Operator shall furnish any Non-Operator so requesting an information copy thereof for any single project costing in excess of _____ 59 Dollars Fifty Thousand 60 \$50,000.00 __). Any party who has not relinquished its interest in a well shall have the right to propose that 61 Operator perform repair work or undertake the installation of artificial lift equipment or ancillary production facilities such as 62 salt water disposal wells or to conduct additional work with respect to a well drilled hereunder or other similar project (but 63 not including the installation of gathering lines or other transportation or marketing facilities, the installation of which shall 64 be governed by separate agreement between the parties) reasonably estimated to require an expenditure in excess of the 65 amount first set forth above in this Article VI.D. (except in connection with an operation required to be proposed under 66 Articles VI.B.1. or VI.C.1. Option No. 2, which shall be governed exclusively be those Articles). Operator shall deliver such 67 proposal to all parties entitled to participate therein. If within thirty (30) days thereof Operator secures the written consent of any party or parties owning at least 80 % of the interests of the parties entitled to participate in such operation, 68 each party having the right to participate in such project shall be bound by the terms of such proposal and shall be obligated 69 to pay its proportionate share of the costs of the proposed project as if it had consented to such project pursuant to the terms 70 71 of the proposal.

72 E. Abandonment of Wells:

73 1. Abandonment of Dry Holes: Except for any well drilled or Deepened pursuant to Article VI.B.2., any well which has 74 been drilled or Deepened under the terms of this agreement and is proposed to be completed as a dry hole shall not be

plugged and abandoned without the consent of all parties. Should Operator, after diligent effort, be unable to contact any 1 2 party, or should any party fail to reply within forty-eight (48) hours (exclusive of Saturday, Sunday and legal holidays) after 3 delivery of notice of the proposal to plug and abandon such well, such party shall be deemed to have consented to the 4 proposed abandonment. All such wells shall be plugged and abandoned in accordance with applicable regulations and at the 5 cost, risk and expense of the participated in the cost of drilling or Deepening such well. Any party who objects to 6 plugging and abandoning such well by notice delivered to Operator within forty-eight (48) hours (exclusive of Saturday, 7 Sunday and legal holidays) after delivery of notice of the proposed plugging shall take over the well as of the end of such 8 forty-eight (48) hour notice period and conduct further operations in search of Oil and/or Gas subject to the provisions of 9 Article VI.B.; failure of such party to provide proof reasonably satisfactory to Operator of its financial capability to conduct 10 such operations or to take over the well within such period or thereafter to conduct operations on such well or plug and 11 abandon such well shall entitle Operator to retain or take possession of the well and plug and abandon the well. The party taking over the well shall indemnify Operator (if Operator is an abandoning party) and the other abandoning parties against 12 13 liability for any further operations conducted on such well except for the costs of plugging and abandoning the well and 14 restoring the surface, for which the abandoning parties shall remain proportionately liable.

15 2. Abandonment of Wells That Have Produced: Except for any well in which a Non-Consent operation has been conducted hereunder for which the Consenting Parties have not been fully reimbursed as herein provided. Any well which has who participated in the cost of drilling the well been completed as a producer shall not be plugged and abandoned without the consent of all parties /. If all parties consent to 16 17 18 such abandonment, the well shall be plugged and abandoned in accordance with applicable regulations and at the cost, risk 19 and expense of all the parties hereto. Failure of a party to reply within sixty (60) days of delivery of notice of proposed 20 abandonment shall be deemed an election to consent to the proposal. If, within sixty (60) days after delivery of notice of the 21 proposed abandonment of any well, all parties do not agree to the abandonment of such well, those wishing to continue its operation from the Zone then open to production shall be obligated to take over the well as of the expiration of the 22 23 applicable notice period and shall indemnify Operator (if Operator is an abandoning party) and the other abandoning parties 24 against liability for any further operations / on the well conducted by such parties. Failure of such party or parties to provide 25 proof reasonably satisfactory to Operator of their financial capability to conduct such operations or to take over the well 26 within the required period or thereafter to conduct operations on such well shall entitle operator to retain or take possession 27 of such well and plug and abandon the well.

28 Parties taking over a well as provided herein shall tender to each of the other parties its proportionate share of the value of 29 the well's salvable material and equipment, determined in accordance with the provisions of Exhibit "C," less the estimated cost 30 of salvaging and the estimated cost of plugging and abandoning and restoring the surface; provided, however, that in the event 31 the estimated plugging and abandoning and surface restoration costs and the estimated cost of salvaging are higher than the 32 value of the well's salvable material and equipment, each of the abandoning parties shall tender to the parties continuing 33 operations their proportionate shares of the estimated excess cost. Each abandoning party shall assign to the non-abandoning 34 parties, without warranty, express or implied, as to title or as to quantity, or fitness for use of the equipment and material, all of its interest in the wellbore of the well and related equipment, together with its interest in the Leasehold insofar and only 35 36 insofar as such Leasehold covers the right to obtain production from that wellbore in the Zone then open to production. If the 37 interest of the abandoning party is or includes and Oil and Gas Interest, such party shall execute and deliver to the non-38 abandoning party or parties an oil and gas lease, limited to the wellbore and the Zone then open to production, for a term of 39 one (1) year and so long thereafter as Oil and/or Gas is produced from the Zone covered thereby, such lease to be on the form 40 attached as Exhibit "B." The assignments or leases so limited shall encompass the Drilling Unit upon which the well is located. 41 The payments by, and the assignments or leases to, the assignees shall be in a ratio based upon the relationship of their 42 respective percentage of participation in the Contract Area to the aggregate of the percentages of participation in the Contract 43 Area of all assignces. There shall be no readjustment of interests in the remaining portions of the Contract Area.

Thereafter, abandoning parties shall have no further responsibility, liability, or interest in the operation of or production from the well in the Zone then open other than the royalties retained in any lease made under the terms of this Article. Upon request, Operator shall continue to operate the assigned well for the account of the non-abandoning parties at the rates and charges contemplated by this agreement, plus any additional cost and charges which may arise as the result of the separate ownership of the assigned well. Upon proposed abandonment of the producing Zone assigned or leased, the assignor or lessor shall then have the option to repurchase its prior interest in the well (using the same valuation formula) and participate in further operations therein subject to the provisions hereof.

51 <u>3. Abandonment of Non-Consent Operations:</u> The provisions of Article VI.E.1. or VI.E.2. above shall be applicable as 52 between Consenting Parties in the event of the proposed abandonment of any well excepted from said Articles; provided, 53 however, no well shall be permanently plugged and abandoned unless and until all parties having the right to conduct further 54 operations therein have been notified of the proposed abandonment and afforded the opportunity to elect to take over the well 55 in accordance with the provisions of this Article VI.E.; and provided further, that Non-Consenting Parties who own an interest 56 in a portion of the well shall pay their proportionate shares of abandonment and surface restoration cost for such well as 57 provided in Article VI.B.2.(b).

58 F. Termination of Operations:

59 Upon the commencement of an operation for the drilling, Reworking, Sidetracking, Plugging Back, Deepening, testing, 60 Completion or plugging of a well, including but not limited to the Initial Well, such operation shall not be terminated without 61 consent of parties bearing <u>80</u>% of the costs of such operation; provided, however, that in the event granite or other 62 practically impenetrable substance or condition in the hole is encountered which renders further operations impractical, 63 Operator may discontinue operations and give notice of such condition in the manner provided in Article VI.B.1, and the 64 provisions of Article VI.B. or VI.E. shall thereafter apply to such operation, as appropriate.

65 G. Taking Production in Kind:

66 🛛 Option No. 1: Gas Balancing Agreement Attached

Each party shall take in kind or separately dispose of its proportionate share of all Oil and Gas produced from the Contract Area, exclusive of production which may be used in development and producing operations and in preparing and treating Oil and Gas for marketing purposes and production unavoidably lost. Any extra expenditure incurred in the taking in kind or separate disposition by any party of its proportionate share of the production shall be borne by such party. Any party taking its share of production in kind shall be required to pay for only its proportionate share of such part of Operator's surface facilities which it uses.

Each party shall execute such division orders and contracts as may be necessary for the sale of its interest in production from the Contract Area, and, except as provided in Article VII.B., shall be entitled to receive payment

directly from the purchaser thereof for its share of all production.

If any party fails to make the arrangements necessary to take in kind or separately dispose of its proportionate share of the Oil produced from the Contract Area, Operator shall have the right, subject to the revocation at will by the party owning it, but not the obligation, to purchase such Oil or sell it to others at any time and from time to time, for the account of the non-taking party. Any such purchase or sale by Operator may be terminated by Operator upon at least ten (10) days written notice to the owner of said production and shall be subject always to the right of the owner of the production upon at least ten (10) days written notice to Operator to exercise at any time its right to take in kind, or separately dispose of, its share of all Oil not previously delivered to a purchaser. Any purchase or sale by Operator of any other party's share of Oil shall be only for such reasonable periods of time as are consistent with the minimum needs of the industry under the particular circumstances, but in no event for a period in excess of one (1) year.

Any such sale by Operator shall be in a manner commercially reasonable under the circumstances but Operator shall have no duty to share any existing market or to obtain a price equal to that received under any existing market. The sale or delivery by Operator of a non-taking party's share of Oil under the terms of any existing contract of Operator shall not give the non-taking party any interest in or make the non-taking party a party to said contract. No purchase shall be made by Operator without first giving the non-taking party at least ten (10) days written notice of such intended purchase and the price to be paid or the pricing basis to be used.

- All parties shall give timely written notice to Operator of their Gas marketing arrangements for the following month, excluding price, and shall notify Operator immediately in the event of a change in such arrangements. Operator shall maintain records of all marketing arrangements, and of volumes actually sold or transported, which records shall be made available to Non-Operators upon reasonable request.
- In the event one or more parties' separate disposition of its share of the Gas causes split-stream deliveries to separate pipelines and/or deliveries which on a day-to-day basis for any reason are not exactly equal to a party's respective proportionate share of total Gas sales to be allocated to it, the balancing or accounting between the parties shall be in accordance with any Gas balancing agreement between the parties hereto, whether such an agreement is attached as Exhibit "E" or is a separate agreement. Operator shall give notice to all parties of the first sales of Gas from any well under this agreement. □ Option No. 2: No Gas Balancing Agreement:
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Each party shall take in kind or separately dispose of its proportionate share of all Oil and Gas produced from the Contract Area, exclusive of production which may be used in development and producing operations and in preparing and treating Oil and Gas for marketing purposes and production unavoidably lost. Any extra expenditures incurred in the taking in kind or separate disposition by any party of its proportionate share of the production shall be borne by such party. Any party taking its share of production in kind shall be required to pay for only its proportionate share of such part of Operator's surface facilities which it uses.

34 Each party shall execute such division orders and contracts as may be necessary for the sale of its interest in 35 production from the Contract Area, and, except as provided in Article VII.B., shall be entitled to receive payment 36 directly from the purchaser thereof for its share of all production.

37 - If any party fails to make the arrangements necessary to take in kind or separately dispose of its proportionate 38 share of the Oil and/or Gas produced from the Contract Area, Operator shall have the right, subject to the 39 recation at will by the party owning it, but not the obligation, to purchase such Oil and/or Gas or sell it to others 40 at any time and from time to time, for the account of the non-taking party. Any such purchase or sale by Operator 41 may be terminated by Operator upon at least ten (10) days written notice to the owner of said production and shall 42 be subject always to the right of the owner of the production upon at least ten (10) days written notice to Operator 43 to exercise its right to take in kind, or separately dispose of, its share of all Oil and/or Gas not previously delivered to a purchaser; provided, however, that the effective date of any such revocation may be deferred at Operator's 44 45 election for a period not to exceed ninety (90) days if Operator has committed such production to a purchase 46 contract having a term extending beyond such ten (10) -day period. Any purchase or sale by Operator of any other

47 party's share of Oil and/or Gas shall be only for such reasonable periods of time as are consistent with the 48 minimum needs of the industry under the particular circumstances, but in no event for a period in excess of one (1) 49 year.

50 Any such sale by Operator shall be in a manner commercially reasonable under the circumstances, but Operator 51 shall have no duty to share any existing market or transportation arrangement or to obtain a price or transportation 52 fee equal to that received under any existing market or transportation arrangement. The sale or delivery by 53 Operator of a non-taking party's share of production under the terms of any existing contract of Operator shall not give the non-taking party any interest in or make the non-taking party a party to said contract. No purchase of Oil 54 55 and Gas and no sale of Gas shall be made by Operator without first giving the non-taking party ten days written 56 notice of such intended purchase or sale and the price to be paid or the pricing basis to be used. Operator shall give 57 notice to all parties of the first sale of Gas from any well under this Agreement.

58 All parties shall give timely written notice to Operator of their Gas marketing arrangements for the following 59 month, excluding price, and shall notify Operator immediately in the event of a change in such arrangements. 60 Operator shall maintain records of all marketing arrangements, and of volumes actually sold or transported, which 61 records shall be made available to Non-Operators upon reasonable request.

ARTICLE VII.

EXPENDITURES AND LIABILITY OF PARTIES

64 A. Liability of Parties:

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65 The liability of the parties shall be several, not joint or collective. Each party shall be responsible only for its obligations, 66 and shall be liable only for its proportionate share of the costs of developing and operating the Contract Area. Accordingly, the liens granted among the parties in Article VII.B. are given to secure only the debts of each severally, and no party shall have 67 any liability to third parties hereunder to satisfy the default of any other party in the payment of any expense or obligation 68 69 hereunder. It is not the intention of the parties to create, nor shall this agreement be construed as creating, a mining or other 70 partnership, joint venture, agency relationship or association, or to render the parties liable as partners, co-venturers, or 71 principals. In their relations with each other under this agreement, the parties shall not be considered fiduciaries or to have 72 established a confidential relationship but rather shall be free to act on an arm's-length basis in accordance with their own 73 respective self-interest, subject, however, to the obligation of the parties to act in good faith in their dealings with each other 74 with respect to activities hereunder.

B. Liens and Security Interests:

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2 Each party grants to the other parties hereto a lien upon any interest it now owns or hereafter acquires in Oil and Gas 3 Leases and Oil and Gas Interests in the Contract Area, and a security interest and/or purchase money security interest in any 4 interest it now owns or hereafter acquires in the personal property and fixtures on or used or obtained for use in connection 5 therewith, to secure performance of all of its obligations under this agreement including but not limited to payment of expense. 6 interest and fees, the proper disbursement of all monies paid hereunder, the assignment or relinquishment of interest in Oil and Gas Leases as required hereunder, and the proper performance of operations hereunder. Such lien and security interest 7 8 granted by each party hereto shall include such party's leasehold interests, working interests, operating rights, and royalty and 9 overriding royalty interests in the Contract Area now owned or hereafter acquired and in lands pooled or unitized therewith or 10 otherwise becoming subject to this agreement, the Oil and Gas when extracted therefrom and equipment situated thereon or 11 used or obtained for use in connection therewith (including, without limitation, all wells, tools, and tubular goods), and accounts (including, without limitation, accounts arising from gas imbalances or from the sale of Oil and/or Gas at the wellhead). 12 contract rights, inventory and general intangibles relating thereto or arising therefrom, and all proceeds and products of the 13 14 foregoing.

15 To perfect the lien and security agreement provided herein, each party hereto shall execute and acknowledge the recording 16 supplement and/or any financing statement prepared and submitted by any party hereto in conjunction herewith or at any time 17 following execution hereof, and Operator is authorized to file this agreement or the recording supplement executed herewith as 18 a lien or mortgage in the applicable real estate records and as a financing statement with the proper officer under the Uniform 19 Commercial Code in the state in which the Contract Area is situated and such other states as Operator shall deem appropriate 20 to perfect the security interest granted hereunder. Any party may file this agreement, the recording supplement executed herewith, or such other documents as it deems necessary as a lien or mortgage in the applicable real estate records and/or a 21 22 financing statement with the proper officer under the Uniform Commercial Code.

Each party represents and warrants to the other parties hereto that the lien and security interest granted by such party to the other parties shall be a first and prior lien, and each party hereby agrees to maintain the priority of said lien and security interest against all persons acquiring an interest in Oil and Gas Leases and Interests covered by this agreement by, through or under such party. All parties acquiring an interest in Oil and Gas Leases and Oil and Gas Interests covered by this agreement, whether by assignment, merger, mortgage, operation of law, or otherwise, shall be deemed to have taken subject to the lien and security interest granted by this Article VII.B. as to all obligations attributable to such interest hereunder whether or not such obligations arise before or after such interest is acquired.

30 To the extent that parties have a security interest under the Uniform Commercial Code of the state in which the 31 Contract Area is situated, they shall be entitled to exercise the rights and remedies of a secured party under the Code. 32 The bringing of a suit and the obtaining of judgment by a party for the secured indebtedness shall not be deemed an election of remedies or otherwise affect the lien rights or security interest as security for the payment thereof. 33 In addition, upon default by any party in the payment of its share of expenses, interests or fees, or upon the improper use 34 35 of funds by the Operator, the other parties shall have the right, without prejudice to other rights or remedies, to collect 36 from the purchaser the proceeds from the sale of such defaulting party's share of Oil and Gas until the amount owed by 37 such party, plus interest as provided in "Exhibit C," has been received, and shall have the right to offset the amount 38 owed against the proceeds from the sale of such defaulting party's share of Oil and Gas. All purchasers of production 39 may rely on a notification of default from the non-defaulting party or parties stating the amount due as a result of the 40 default, and all parties waive any recourse available against purchasers for releasing production proceeds as provided in 41 this paragraph.

If any party fails to pay its share of cost within one hundred twenty (120) days after rendition of a statement therefor by Operator, the non-defaulting parties, including Operator, shall upon request by Operator, pay the unpaid amount in the proportion that the interest of each such party bears to the interest of all such parties. The amount paid by each party so paying its share of the unpaid amount shall be secured by the liens and security rights described in Article VII.B., and each paying party may independently pursue any remedy available hereunder or otherwise.

If any party does not perform all of its obligations hereunder, and the failure to perform subjects such party to foreclosure or execution proceedings pursuant to the provisions of this agreement, to the extent allowed by governing law, the defaulting party waives any available right of redemption from and after the date of judgment, any required valuation or appraisement of the mortgaged or secured property prior to sale, any available right / to stay execution or to require a marshaling of assets or sale in inverse order of alienation / and any required bond in the event a receiver is appointed. In addition, to the extent permitted by applicable law, each party hereby grants to the other parties a power of sale as to any property that is subject to the lien and security rights granted hereunder, such power to be exercised in the manner provided by applicable law or otherwise in a commercially reasonable manner and upon reasonable notice.

Each party agrees that the other parties shall be entitled to utilize the provisions of Oil and Gas lien law or other lien law of any state in which the Contract Area is situated to enforce the obligations of each party hereunder. Without limiting the generality of the foregoing, to the extent permitted by applicable law, Non-Operators agree that Operator may invoke or utilize the mechanics' or materialmen's lien law of the state in which the Contract Area is situated in order to secure the payment to Operator of any sum due hereunder for services performed or materials supplied by Operator. **C. Advances:**

61 Operator, at its election, shall have the right from time to time to demand and receive from one or more of the other 62 parties payment in advance of their respective shares of the estimated amount of the expense to be incurred in operations hereunder during the next succeeding month, which right may be exercised only by submission to each such party of an 63 64 itemized statement of such estimated expense, together with an invoice for its share thereof. Each such statement and invoice 65 for the payment in advance of estimated expense shall be submitted on or before the 20th day of the next preceding month. 66 Each party shall pay to Operator its proportionate share of such estimate within fifteen (15) days after such estimate and invoice is received. If any party fails to pay its share of said estimate within said time, the amount due shall bear interest as 67 provided in Exhibit "C" until paid. Proper adjustment shall be made monthly between advances and actual expense to the end 68 69 that each party shall bear and pay its proportionate share of actual expenses incurred, and no more.

70 **D. Defaults and Remedies:**

If any party fails to discharge any financial obligation under this agreement, including without limitation the failure to make any advance under the preceding Article VII.C. or any other provision of this agreement, within the period required for such payment hereunder, then in addition to the remedies provided in Article VII.B. or elsewhere in this agreement, the remedies specified below shall be applicable. For purposes of this Article VII.D., all notices and elections shall be delivered

1 only by Operator, except that Operator shall deliver any such notice and election requested by a non-defaulting Non-Operator, 2 and when Operator is the party in default, the applicable notices and elections can be delivered by any Non-Operator. 3 Election of any one or more of the following remedies shall not preclude the subsequent use of any other remedy specified

4 below or otherwise available to a non-defaulting party.

1. Suspension of Rights: Any party may deliver to the party in default a Notice of Default, which shall specify the default, 5 6 specify the action to be taken to cure the default, and specify that failure to take such action will result in the exercise of one or more of the remedies provided in this Article. If the default is not cured within thirty (30) days of the delivery of such 7 8 Notice of Default, all of the rights of the defaulting party granted by this agreement may upon notice be suspended until the 9 default is cured, without prejudice to the right of the non-defaulting party or parties to continue to enforce the obligations of 10 the defaulting party previously accrued or thereafter accruing under this agreement. If Operator is the party in default, the 11 Non-Operators shall have in addition the right, by vote of Non-Operators owning a majority in interest in the Contract Area after excluding the voting interest of Operator, to appoint a new Operator effective immediately. The rights of a defaulting 12 party that may be suspended hereunder at the election of the non-defaulting parties shall include, without limitation, the right 13 14 to receive information as to any operation conducted hereunder during the period of such default, the right to elect to 15 participate in an operation proposed under Article VI.B. of this agreement, the right to participate in an operation being 16 conducted under this agreement even if the party has previously elected to participate in such operation, and the right to 17 receive proceeds of production from any well subject to this agreement.

18 2. <u>Suit for Damages:</u> Non-defaulting parties or Operator for the benefit of non-defaulting parties may sue (at joint 19 account expense) to collect the amounts in default, plus interest accruing on the amounts recovered from the date of default 20 until the date of collection at the rate specified in Exhibit "C" attached hereto. Nothing herein shall prevent any party from 21 suing any defaulting party to collect consequential damages accruing to such party as a result of the default.

3. Deemed Non-Consent: The non-defaulting party may deliver a written Notice of Non-Consent Election to the 22 23 defaulting party at any time after the expiration of the thirty-day cure period following delivery of the Notice of Default, in 24 which event if the billing is for the drilling a new well or the Plugging Back, Sidetracking, Reworking or Deepening of a 25 well which is to be or has been plugged as a dry hole, or for the Completion or Recompletion of any well, the defaulting 26 party will be conclusively deemed to have elected not to participate in the operation and to be a Non-Consenting Party with respect thereto under Article VI.B. or VI.C., as the case may be, to the extent of the costs unpaid by such party, 27 28 notwithstanding any election to participate theretofore made. If election is made to proceed under this provision, then the 29 non-defaulting parties may not elect to sue for the unpaid amount pursuant to Article VII.D.2.

Until the delivery of such Notice of Non-Consent Election to the defaulting party, such party shall have the right to cure its default by paying its unpaid share of costs plus interest at the rate set forth in Exhibit "C," provided, however, such payment shall not prejudice the rights of the non-defaulting parties to pursue remedies for damages incurred by the nondefaulting parties as a result of the default. Any interest relinquished pursuant to this Article VII.D.3. shall be offered to the non-defaulting parties in proportion to their interests, and the non-defaulting parties electing to participate in the ownership of such interest shall be required to contribute their shares of the defaulted amount upon their election to participate therein.

36 4. Advance Payment: If a default is not cured within thirty (30) days of the delivery of a Notice of Default, Operator, or 37 Non-Operators if Operator is the defaulting party, may thereafter require advance payment from the defaulting 38 party of such defaulting party's anticipated share of any item of expense for which Operator, or Non-Operators, as the case may 39 be, would be entitled to reimbursement under any provision of this agreement, whether or not such expense was the subject of 40 the previous default. Such right includes, but is not limited to, the right to require advance payment for the estimated costs of drilling a well or Completion of a well as to which an election to participate in drilling or Completion has been made. If the 41 42 defaulting party fails to pay the required advance payment, the non-defaulting parties may pursue any of the remedies provided in the Article VII.D. or any other default remedy provided elsewhere in this agreement. Any excess of funds advanced remaining 43 44 when the operation is completed and all costs have been paid shall be promptly returned to the advancing party.

45 5. <u>Costs and Attorneys' Fees:</u> In the event any party is required to bring legal proceedings to enforce any financial 46 obligation of a party hereunder, the prevailing party in such action shall be entitled to recover all court costs, costs of 47 collection, and a reasonable attorney's fee, which the lien provided for herein shall also secure.

48 E. Rentals, Shut-in Well Payments and Minimum Royalties:

Rentals, shut-in well payments and minimum royalties which may be required under the terms of any lease shall be paid by the party or parties who subjected / such lease to this agreement at its or their expense. In the event two or more parties own and have contributed interests in the same lease to this agreement, such parties may designate one of such parties to make said payments for and on behalf of all such parties. Any party may request, and shall be entitled to receive, proper evidence of all such payments. In the event of failure to make proper payment of any rental, shut-in well payment or minimum royalty through mistake or oversight where such payment is required to continue the lease in force, any loss which results from such non-payment shall be borne in accordance with the provisions of Article IV.B.2.

56 Operator shall notify Non-Operators of the anticipated completion of a shut-in well, or the shutting in or return to 57 production of a producing well, at least five (5) days (excluding Saturday, Sunday, and legal holidays) prior to taking such 58 action, or at the earliest opportunity permitted by circumstances, but assumes no liability for failure to do so. In the event of 59 failure by Operator to so notify Non-Operators, the loss of any lease contributed hereto by Non-Operators for failure to make 50 timely payments of any shut-in well payment shall be borne jointly by the parties hereto under the provisions of Article 51 IV.B.3.

62 F. Taxes:

Beginning with the first calendar year after the effective date hereof, Operator shall render for ad valorem taxation all 63 64 property subject to this agreement which by law should be rendered for such taxes, and it shall pay all such taxes assessed 65 thereon before they become delinquent. Prior to the rendition date, each Non-Operator shall furnish Operator information as 66 to burdens (to include, but not be limited to, royalties, overriding royalties and production payments) on Leases and Oil and Gas Interests contributed by such Non-Operator. If the assessed valuation of any Lease is reduced by reason of its being 67 68 subject to outstanding excess royalties, overriding royalties or production payments, the reduction in ad valorem taxes 69 resulting therefrom shall inure to the benefit of the owner or owners of such Lease, and Operator shall adjust the charge to 70 such owner or owners so as to reflect the benefit of such reduction. If the ad valorem taxes are based in whole or in part 71 upon separate valuations of each party's working interest, then notwithstanding anything to the contrary herein, charges to 72 the joint account shall be made and paid by the parties hereto in accordance with the tax value generated by each party's 73 working interest. Operator shall bill the other parties for their proportionate shares of all tax payments in the manner 74 provided in Exhibit "C."

If Operator considers any tax assessment improper, Operator may, at its discretion, protest within the time and manner 2 prescribed by law, and prosecute the protest to a final determination, unless all parties agree to abandon the protest prior to final 3 determination. During the pendency of administrative or judicial proceedings, Operator may elect to pay, under protest, all such taxes 4 and any interest and penalty. When any such protested assessment shall have been finally determined, Operator shall pay the tax for the joint account, together with any interest and penalty accrued, and the total cost shall then be assessed against the parties, and be 5 6 paid by them, as provided in Exhibit "C."

Each party shall pay or cause to be paid all production, severance, excise, gathering and other taxes imposed upon or with respect 7 8 to the production or handling of such party's share of Oil and Gas produced under the terms of this agreement.

ARTICLE VIII.

ACQUISITION, MAINTENANCE OR TRANSFER OF INTEREST

11 A. Surrender of Leases:

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12 The Leases covered by this agreement, insofar as they embrace acreage in the Contract Area, shall not be surrendered in whole or in part unless all parties consent thereto-; however, no consent shall be necessary to release a lease which has expired or otherwise terminated in accordance with its terms. Should However, should / any party desire to surrender its interest in any Lease or in any portion thereof, such party shall give written 13 14

15 notice of the proposed surrender to all parties, and the parties to whom such notice is delivered shall have thirty (30) days after 16 delivery of the notice within which to notify the party proposing the surrender whether they elect to consent thereto. Failure of a 17 party to whom such notice is delivered to reply within said 30-day period shall constitute a consent to the surrender of the Leases 18 described in the notice. If all parties do not agree or consent thereto, the party desiring to surrender shall assign, without express or 19 implied warranty of title, all of its interest in such Lease, or portion thereof, and any well, material and equipment which may be 20 located thereon and any rights in production thereafter secured, to the parties not consenting to such surrender. If the interest of the 21 assigning party is or includes an Oil and Gas Interest, the assigning party shall execute and deliver to the party or parties not 22 consenting to such surrender an oil and gas lease covering such Oil and Gas Interest for a term of one (1) year and so long 23 thereafter as Oil and/or Gas is produced from the land covered thereby, such lease to be on the form attached hereto as Exhibit "B.' 24 Upon such assignment or lease, the assigning party shall be relieved from all obligations thereafter accruing, but not theretofore 25 accrued, with respect to the interest assigned or leased and the operation of any well attributable thereto, and the assigning party 26 shall have no further interest in the assigned or leased premises and its equipment and production other than the royalties retained 27 in any lease made under the terms of this Article. The party assignee or lessee shall pay to the party assignor or lessor the 28 reasonable salvage value of the latter's interest in any well's salvable materials and equipment attributable to the assigned or leased 29 acreage. The value of all salvable materials and equipment shall be determined in accordance with the provisions of Exhibit "C," less 30 the estimated cost of salvaging and the estimated cost of plugging and abandoning and restoring the surface. If such value is less 31 than such costs, then the party assignor or lessor shall pay to the party assignee or lessee the amount of such deficit. If the 32 assignment or lease is in favor of more than one party, the interest shall be shared by such parties in the proportions that the 33 interest of each bears to the total interest of all such parties. If the interest of the parties to whom the assignment is to be made 34 varies according to depth, then the interest assigned shall similarly reflect such variances. 35

Any assignment, lease or surrender made under this provision shall not reduce or change the assignor's, lessor's or surrendering pursuant to Article XVI.M party's interest as it was immediately before the assignment, lease or surrender in the balance of the Contract Area/; and the acreage 36 37 assigned, leased or surrendered, and subsequent operations thereon, shall not thereafter be subject to the terms and provisions of this 38 agreement-but shall be deemed subject to an Operating Agreement in the form of this agreement. 39

B. Renewal or Extension of Leases: 40

If any party secures a renewal or replacement of an Oil and Gas Lease or Interest subject to this agreement, then all other parties 41 shall be notified promptly upon such acquisition or, in the case of a replacement Lease taken before expiration of an existing Lease, 42 promptly upon expiration of the existing Lease. The parties notified shall have the right for a period of thirty (30) days following 43 delivery of such notice in which to elect to participate in the ownership of the renewal or replacement Lease, insofar as such Lease 44 affects lands within the Contract Area, by paying to the party who acquired it their proportionate shares of the acquisition cost 45 allocated to that part of such Lease within the Contract Area, which shall be in proportion to the interest held at that time by the 46 parties in the Contract Area. Each party who participates in the purchase of a renewal or replacement Lease shall be given an , without warranty of title, except as to acts by, through or under the acquiring party. assignment of its proportionate interest therein by the acquiring party-/ 47 48

If some, but less than all, of the parties elect to participate in the purchase of a renewal or replacement Lease, it shall be owned 49 by the parties who elect to participate therein, in a ratio based upon the relationship of their respective percentage of participation in 50 the Contract Area to the aggregate of the percentages of participation in the Contract Area of all parties participating in the 51 purchase of such renewal or replacement Lease. The acquisition of a renewal or replacement Lease by any or all of the parties hereto pursuant to Article XVLM shall not cause a readjustment of the interests of the parties stated in Exhibit "A" / but and any renewal or replacement Lease in which 52 53 less than all parties elect to participate shall not be subject to this agreement but shall be deemed subject to a separate Operating 54 Agreement in the form of this agreement. 55

If the interests of the parties in the Contract Area vary according to depth, then their right to participate proportionately in 56 renewal or replacement Leases and their right to receive an assignment of interest shall also reflect such depth variances. 57

The provisions of this Article shall apply to renewal or replacement Leases whether they are for the entire interest covered by 58 the expiring Lease or cover only a portion of its area or an interest therein. Any renewal or replacement Lease taken before the 59 expiration of its predecessor Lease, or taken or contracted for or becoming effective within six (6) months after the expiration of the 60 existing Lease, shall be subject to this provision so long as this agreement is in effect at the time of such acquisition or at the time 61 the renewal or replacement Lease becomes effective; but any Lease taken or contracted for more than six (6) months after the 62 expiration of an existing Lease shall not be deemed a renewal or replacement Lease and shall not be subject to the provisions of this 63 agreement. 64

The provisions in this Article shall / also be applicable to extensions of Oil and Gas Leases. 65

C. Acreage or Cash Contributions: 66

While this agreement is in force, if any party contracts for a contribution of cash towards the drilling of a well or any other 67 operation on the Contract Area, such contribution shall be paid to the party who conducted the drilling or other operation and shall 68 be applied by it against the cost of such drilling or other operation. If the contribution be in the form of acreage, the party to whom 69 the contribution is made shall promptly tender an assignment of the acreage, without warranty of title, to the Drilling Parties in the 70 proportions said Drilling Parties shared the cost of drilling the well. Such acreage shall become a separate Contract Area and, to the 71 extent possible, be governed by provisions identical to this agreement. Each party shall promptly notify all other parties of any 72 acreage or cash contributions it may obtain in support of any well or any other operation on the Contract Area. The above 73 provisions shall also be applicable to optional rights to earn acreage outside the Contract Area which are in support of well drilled 74 inside Contract Area.

If any party contracts for any consideration relating to disposition of such party's share of substances produced hereunder, such consideration shall not be deemed a contribution as contemplated in this Article VIII.C.

3 D. Assignment; Maintenance of Uniform Interest:

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4 For the purpose of maintaining uniformity of ownership in the Contract Area in the Oil and Gas Leases, Oil and Gas

5 Interests, wells, equipment and production covered by this agreement no party shall sell, encumber, transfer or make other 6 disposition of its interest in the Oil and Gas Leases and Oil and Gas Interests embraced within the Contract Area or in wells,

7 equipment and production unless such disposition covers either:

8 — 1. the entire interest of the party in all Oil and Gas Leases, Oil and Gas Interests, wells, equipment and production; or

9 <u>2. an equal undivided percent of the party's present interest in all Oil and Gas Leases, Oil and Gas Interests, wells,</u> 10 equipment and production in the Contract Area.

11 Every sale, encumbrance, transfer or other disposition made by any party shall be made expressly subject to this agreement and shall be made without prejudice to the right of the other parties, and any transferee of an ownership interest in any Oil and 12 13 Gas Lease or Interest shall be deemed a party to this agreement as to the interest conveyed from and after the effective date of 14 the transfer of ownership; provided, however, that the other parties shall not be required to recognize any such sale, 15 encumbrance, transfer or other disposition for any purpose hereunder until thirty (30) days after they have received a copy of the 16 instrument of transfer or other satisfactory evidence thereof in writing from the transferor or transferee. No assignment or other 17 disposition of interest by a party shall relieve such party of obligations previously incurred by such party hereunder with respect to the interest transferred, including without limitation the obligation of a party to pay all costs attributable to an operation 18 19 conducted hereunder in which such party has agreed to participate prior to making such assignment, and the lien and security 20 interest granted by Article VII.B. shall continue to burden the interest transferred to secure payment of any such obligations.

If, at any time the interest of any party is divided among and owned by four or more co-owners, Operator, at its discretion, may require such co-owners to appoint a single trustee or agent with full authority to receive notices, approve expenditures, receive billings for and approve and pay such party's share of the joint expenses, and to deal generally with, and with power to bind, the co-owners of such party's interest within the scope of the operations embraced in this agreement; however, all such coowners shall have the right to enter into and execute all contracts or agreements for the disposition of their respective shares of the Oil and Gas produced from the Contract Area and they shall have the right to receive, separately, payment of the sale proceeds thereof.

28 Also see Article XVI.D.

29 E. Waiver of Rights to Partition:

30 If permitted by the laws of the state or states in which the property covered hereby is located, each party hereto owning an 31 undivided interest in the Contract Area waives any and all rights it may have to partition and have set aside to it in severalty its 32 undivided interest therein.

33 **F. Preferential Right to Purchase**

 $34 \qquad \Box = (Optional: Check if applicable)$

35 Should any party desire to sell all or any part of its interests under this agreement, or its rights and interests in the Contract 36 Area, it shall promptly give written notice to the other parties, with full information concerning its proposed disposition, which 37 shall include the name and address of the prospective transferee (who must be ready, willing and able to purchase), the purchase 38 price, a legal description sufficient to identify the property, and all other terms of the offer. The other parties shall then have an 39 optional prior right, for a period of ten (10) days after notice is delivered, to purchase for the stated consideration on the 40 same terms and conditions the interest which the other party proposes to sell; and, if this optional right is exercised, the 41 purchasing parties shall share the purchased interest in the proportions that the interest of each bears to the total interest of all 42 purchasing parties. However, there shall be no preferential right to purchase in those cases where any party wishes to mortgage 43 its interests, or to transfer title to its interest to its mortgagee in lieu of or pursuant to foreclosure of a mortgage of its interests, 44 or to dispose of its interests by merger, reorganization, consolidation, or by sale of all or substantially all of its Oil and Gas assets 45 to any party, or by transfer of its interests to a subsidiary or parent company or to a subsidiary of a parent company, or to any 46 company in which such party owns a majority of the stock.

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ARTICLE IX. INTERNAL REVENUE CODE ELECTION

49 If, for federal income tax purposes, this agreement and the operations hereunder are regarded as a partnership, and if the 50 parties have not otherwise agreed to form a tax partnership pursuant to Exhibit "G" or other agreement between them, each 51 party thereby affected elects to be excluded from the application of all of the provisions of Subchapter "K," Chapter 1, Subtitle 52 "A," of the Internal Revenue Code of 1986, as amended ("Code"), as permitted and authorized by Section 761 of the Code and 53 the regulations promulgated thereunder. Operator is authorized and directed to execute on behalf of each party hereby affected 54 such evidence of this election as may be required by the Secretary of the Treasury of the United States or the Federal Internal 55 Revenue Service, including specifically, but not by way of limitation, all of the returns, statements, and the data required by 56 Treasury Regulation §1.761. Should there be any requirement that each party hereby affected give further evidence of this 57 election, each such party shall execute such documents and furnish such other evidence as may be required by the Federal Internal 58 Revenue Service or as may be necessary to evidence this election. No such party shall give any notices or take any other action 59 inconsistent with the election made hereby. If any present or future income tax laws of the state or states in which the Contract 60 Area is located or any future income tax laws of the United States contain provisions similar to those in Subchapter "K," Chapter 61 1. Subtitle "A." of the Code, under which an election similar to that provided by Section 761 of the Code is permitted, each party 62 hereby affected shall make such election as may be permitted or required by such laws. In making the foregoing election, each such party states that the income derived by such party from operations hereunder can be adequately determined without the 63 64 computation of partnership taxable income.

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ARTICLE X. CLAIMS AND LAWSUITS

67 Operator may settle any single uninsured third party damage claim or suit arising from operations hereunder if the expenditure Dollars (\$50,000.00) and if the payment is in complete settlement 68 does not exceed **Fifty Thousand** 69 of such claim or suit. If the amount required for settlement exceeds the above amount, the parties hereto shall assume and take over 70 the further handling of the claim or suit, unless such authority is delegated to Operator. All costs and expenses of handling settling, 71 or otherwise discharging such claim or suit shall be a the joint expense of the parties participating in the operation from which the 72 claim or suit arises. If a claim is made against any party or if any party is sued on account of any matter arising from operations 73 hereunder over which such individual has no control because of the rights given Operator by this agreement, such party shall 74 immediately notify all other parties, and the claim or suit shall be treated as any other claim or suit involving operations hereunder.

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ARTICLE XI. FORCE MAJEURE

3 If any party is rendered unable, wholly or in part, by force majeure to carry out its obligations under this agreement, other 4 than the obligation to indemnify or make money payments or furnish security, that party shall give to all other parties prompt written notice of the force majeure with reasonably full particulars concerning it; thereupon, the obligations of the 5 6 party giving the notice, so far as they are affected by the force majeure, shall be suspended during, but no longer than, the continuance of the force majeure. The term "force majeure," as here employed, shall mean an act of God, strike, lockout, or 7 8 other industrial disturbance, act of the public enemy, war, blockade, public riot, lightening, fire, storm, flood or other act of 9 nature, explosion, governmental action, governmental delay, restraint or inaction, unavailability of equipment, and any other 10 cause, whether of the kind specifically enumerated above or otherwise, which is not reasonably within the control of the party 11 claiming suspension.

The affected party shall use all reasonable diligence to remove the force majeure situation as quickly as practicable. The requirement that any force majeure shall be remedied with all reasonable dispatch shall not require the settlement of strikes, lockouts, or other labor difficulty by the party involved, contrary to its wishes; how all such difficulties shall be handled shall be entirely within the discretion of the party concerned.

ARTICLE XII.

NOTICES

All notices authorized or required between the parties by any of the provisions of this agreement, u ess otherwise mail. 18 unless 19 specifically provided, shall be in writing and delivered in person or by United States mail, courier service, / telegram, telex, 20 telecopier or any other form of facsimile, postage or charges prepaid, and addressed to such parties at the addresses listed on Exhibit "A." All telephone or oral notices permitted by this agreement shall be confirmed immediately thereafter by written 21 22 notice. The originating notice given under any provision hereof shall be deemed delivered only when received by the party to 23 whom such notice is directed, and the time for such party to deliver any notice in response thereto shall run from the date 24 the originating notice is received. "Receipt" for purposes of this agreement with respect to written notice delivered hereunder shall be actual delivery of the notice to the address of the party to be notified specified in accordance with this agreement, or , electronic mail to the telecopy, facsimile / or telex machine of such party. The second or any responsive notice shall be deemed delivered when electronic mail, deposited in the United States mail or at the office of the courier or telegraph service, or upon transmittal by telex, / telecopy 25 26 27 or facsimile, or when personally delivered to the party to be notified, provided, that when response is required within 24 or electronic mail, 48 hours, such response shall be given orally or by telephone, telex, / telecopy or other facsimile within such period. Each party 28 29 30 shall have the right to change its address at any time, and from time to time, by giving written notice thereof to all other 31 parties. If a party is not available to receive notice orally or by telephone when a party attempts to deliver a notice required 32 to be delivered within 24 or 48 hours, the notice may be delivered in writing by any other method specified herein and shall 33 be deemed delivered in the same manner provided above for any responsive notice.

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ARTICLE XIII. TERM OF AGREEMENT

This agreement shall remain in full force and effect as to the Oil and Gas Leases and/or Oil and Gas Interests subject hereto for the period of time selected below; provided, however, no party hereto shall ever be construed as having any right, title or interest in or to any Lease or Oil and Gas Interest contributed by any other party beyond the term of this agreement. **See Article XVLN.** <u>Option No. 1: So long as any of the Oil and Gas Leases subject to this agreement remain or are continued in force as to any part</u>

41 🗵 Option No. 2: In the event the well described in Article VI.A., or any subsequent well drilled under any provision 42 of this agreement, results in the Completion of a well as a well capable of production of Oil and/or Gas in paying 43 quantities, this agreement shall continue in force so long as any such well is capable of production, and for an 44 additional period of ninety (90) days thereafter; provided, however, if, prior to the expiration of such 45 additional period, one or more of the parties hereto are engaged in drilling, Reworking, Deepening, Sidetracking, 46 Plugging Back, testing or attempting to Complete or Re-complete a well or wells hereunder, this agreement shall 47 continue in force until such operations have been completed and if production results therefrom, this agreement 48 shall continue in force as provided herein. In the event the well described in Article VI.A., or any subsequent well 49 drilled hereunder, results in a dry hole, and no other well is capable of producing Oil and/or Gas from the 50 Contract Area, this agreement shall terminate unless drilling, Deepening, Sidetracking, Completing, Re-51 completing, Plugging Back or Reworking operations are commenced within _____ ninety (90) - days from the 52 date of abandonment of said well. "Abandonment" for such purposes shall mean either (i) a decision by all parties 53 not to conduct any further operations on the well or (ii) the elapse of 180 days from the conduct of any 54 operations on the well, whichever first occurs.

The termination of this agreement shall not relieve any party hereto from any expense, liability or other obligation or any remedy therefor which has accrued or attached prior to the date of such termination.

57 Upon termination of this agreement and the satisfaction of all obligations hereunder, in the event a memorandum of this 58 Operating Agreement has been filed of record, Operator is authorized to file of record in all necessary recording offices a 59 notice of termination, and each party hereto agrees to execute such a notice of termination as to Operator's interest, upon 60 request of Operator, if Operator has satisfied all its financial obligations.

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ARTICLE XIV.

COMPLIANCE WITH LAWS AND REGULATIONS

63 A. Laws, Regulations and Orders:

This agreement shall be subject to the applicable laws of the state in which the Contract Area is located, to the valid rules, regulations, and orders of any duly constituted regulatory body of said state; and to all other applicable federal, state, and local laws, ordinances, rules, regulations and orders.

67 **B. Governing Law:**

This agreement and all matters pertaining hereto, including but not limited to matters of performance, nonperformance, breach, remedies, procedures, rights, duties, and interpretation or construction, shall be governed and determined by the law of the state in which the Contract Area is located. If the Contract Area is in two or more states, the law of the state of shall govern.

72 C. Regulatory Agencies:

Nothing herein contained shall grant, or be construed to grant, Operator the right or authority to waive or release any rights, privileges, or obligations which Non-Operators may have under federal or state laws or under rules, regulations or

orders promulgated under such laws in reference to oil, gas and mineral operations, including the location, operation,

production of wells, on tracts offsetting or adjacent to the Contract Area.

3 With respect to the operations hereunder, Non-Operators agree to release Operator from any and all losses, damages, 4 injuries, claims and causes of action arising out of, incident to or resulting directly or indirectly from Operator's interpretation or application of rules, rulings, regulations or orders of the Department of Energy or Federal Energy Regulatory Commission 5 6 or predecessor or successor agencies to the extent such interpretation or application was made in good faith and does not constitute gross negligence. Each Non-Operator further agrees to reimburse Operator for such Non-Operator's share of 7 8 production or any refund, fine, levy or other governmental sanction that Operator may be required to pay as a result of such 9 an incorrect interpretation or application, together with interest and penalties thereon owing by Operator as a result of such 10 incorrect interpretation or application.

ARTICLE XV. MISCELLANEOUS

13 A. Execution:

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14 This agreement shall be binding upon each Non-Operator when this agreement or a counterpart thereof has been 15 executed by such Non-Operator and Operator notwithstanding that this agreement is not then or thereafter executed by all of 16 the parties to which it is tendered or which are listed on Exhibit "A" as owning an interest in the Contract Area or which 17 own, in fact, an interest in the Contract Area. Operator may, however, by written notice to all Non-Operators who have 18 become bound by this agreement as aforesaid, given at any time prior to the actual spud date of the Initial Well but in no event later than five days prior to the date specified in Article VI.A. for commencement of the Initial Well, terminate this 19 20 agreement if Operator in its sole discretion determines that there is insufficient participation to justify commencement of 21 drilling operations. In the event of such a termination by Operator, all further obligations of the parties hereunder shall cease 22 as of such termination. In the event any Non-Operator has advanced or prepaid any share of drilling or other costs 23 hereunder, all sums so advanced shall be returned to such Non-Operator without interest. In the event Operator proceeds 24 with drilling operations for the Initial Well without the execution hereof by all persons listed on Exhibit "A" as having a 25 current working interest in such well, Operator shall indemnify Non-Operators with respect to all costs incurred for the 26 Initial Well which would have been charged to such person under this agreement if such person had executed the same and 27 Operator shall receive all revenues which would have been received by such person under this agreement if such person had 28 executed the same.

29 **B. Successors and Assigns:**

30 This agreement shall be binding upon and shall inure to the benefit of the parties hereto and their respective heirs, 31 devisees, legal representatives, successors and assigns, and the terms hereof shall be deemed to run with the Leases or 32 Interests included within the Contract Area.

33 C. Counterparts:

34 This instrument may be executed in any number of counterparts, each of which shall be considered an original for all 35 purposes.

36 **D.** Severability:

37 For the purposes of assuming or rejecting this agreement as an executory contract pursuant to federal bankruptcy laws, 38 this agreement shall not be severable, but rather must be assumed or rejected in its entirety, and the failure of any party to 39 this agreement to comply with all of its financial obligations provided herein shall be a material default.

ARTICLE XVI.

OTHER PROVISIONS

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43 A. Conflicts:

44 Notwithstanding anything herein contained to the contrary, it is understood and agreed that if there is any conflict between any 45 part of or all of the terms and provisions of Article XVI and any other terms and provisions of this agreement, the terms and 46 provisions of this Article XVI shall prevail and control.

47 This agreement is subject to all the terms and provisions of that certain Unit Agreement for the Development of the Smith Unit 48 dated November 13, 2018, to which a copy of this agreement is attached (hereinafter the "Unit Agreement"). In the 49 event of a conflict between the provisions of this agreement, including this Article XVI, and the Unit Agreement, the provisions of 50 this agreement, including this Article XVI, shall prevail and control.

51 This Operating Agreement is intended to cover the parties' respective interests in the Unitized Formation.

52 **B.** Priority of Operations:

53 If at any time there is more than one operation proposed in connection with any well subject to this agreement and if the 54 Consenting Parties do not agree on the sequence of proposed operations, such proposed operations shall be conducted in the 55 following sequence:

- First: testing, coring or logging;
- 57 Second: completion attempts without plugging back in ascending order from deepest to shallowest depths; 58
 - sidetracking in the order of least deviation from the original bottom hole location to the greatest deviation; Third:
- 59 Fourth: deepening of a well below the authorized depth in descending order from shallowest to deepest depths: 60
 - Fifth: plugging back and completion attempts in ascending order from deepest to shallowest depths.
- 61 C. Netting and Setoff:

62 Except for any payments related to charges on any joint interest billing that a Non-Operator has disputed in good faith, in the 63 event that Non-Operator does not remit payment for any operating costs or charges assessable to Non-Operators and permitted 64 under this Operating Agreement within forty five (45) days after the date payment is due, Operator is authorized to deduct such 65 costs or charges, and to remit to such Non-Operators their respective net share of any proceeds attributable to the interest of such 66 Non-Operators being received directly from any purchasers of production from the Contract Area. The foregoing provisions shall 67 not diminish Operator's lien rights contained within this agreement.

68 D. Multiple Billing:

69 In no event shall Operator be required to make more than four billings for the entire interest credited to each Non-Operator on 70 Exhibit "A". If any Non-Operator to this agreement disposes of any part or all of the interest credited to it on Exhibit "A", hereinafter 71 referred to as "Selling Party," such Selling Party shall be solely responsible for billing its assignee or assignees and shall remain primarily 72 liable to the other Parties for the interest or interests assigned until such time as Selling Party has (1) designated and qualified the

73 assignees to receive the billing for its interest, (2) designated assignees have been approved and accepted by Operator, and (3) has 74 furnished to Operator written notice of the conveyance and photocopy of the recorded assignments by which the transfer is made. The 1 sale or other disposition of any interest in the leases covered by this agreement shall be made specifically subject to the provisions of this

2 Article. Operator's approval shall not be unreasonably withheld.

3 E. Horizontal Wells:

4 1. Notwithstanding anything contained herein to the contrary, (i) the provisions of Article VI.C.I Option No. 1 shall apply to any Horizontal Well or Multi-lateral Well proposed hereunder, and (ii) the provisions of Article VI.C.1, Option No. 2 shall apply to 5 6 all other wells proposed hereunder that are not expressly proposed as Horizontal Wells or Multi-lateral Wells. To be effective as a Horizontal Well Proposal, such proposal must include an AFE, the corresponding anticipated Unit and Contract Area size and 7 dimensions within which the well will be drilled, and other accompanying documents that clearly indicate the well being proposed is 8 a Horizontal Well or Multi-lateral Well . As to any possible conflicts that may arise during the completion phase of a Horizontal 9 10 Well or Multi-lateral Well, priority shall be given first to a Lateral drain hole of the authorized depth, and then to objective 11 formations in ascending order above the authorized depth, and then to objective formations in descending order below the authorized depth. 12

13 2. Operator shall have the right to cease drilling a Horizontal Well or Multi-lateral Well at any time, for any reason, and such 14 Horizontal Well or Multi-lateral Well shall be deemed to have reached its objective depth so long as Operator has drilled such 15 Horizontal Well or Multi-lateral Well to the objective formation and has drilled laterally in the objective formation for a distance 16 which is at least equal to fifty percent (50%) of the length of the total horizontal drainhole displacement (displacement from true 17 vertical) proposed for the operation. In like manner, Operator may continue drilling to extend a proposed lateral in a Horizontal 18 Well or Multi-lateral Well up to 10% longer than the length proposed in the proposal approved by the Parties if in Operator's sole 19 judgment, it would be reasonably prudent to do so.

20 F. Sidetracking:

Notwithstanding the provisions of Article VI.B(5), "Sidetracking", such paragraph shall not be applicable to operations in the lateral portion of a Horizontal Well or Multi-lateral Well. Drilling operations which are intended to recover penetration of the target interval which are conducted in a Horizontal Well or Multi-lateral Well shall be considered as included in the original proposed drilling operations.

25 **G. Further Assurances:**

In connection with this agreement, the parties agree to execute and deliver such additional documents and instruments and to perform such additional acts as may be necessary or appropriate to effectuate, carry out, and perform all the terms, provisions and conditions of this agreement.

28 conditions of this agreement.

29 H. Covenants Running with the Land:

30 The terms, provisions, covenants and conditions of this agreement shall be deemed to be covenants running with the lands, the

31 lease or leases and leasehold estate covered hereby, and all of the terms, provisions, covenants and conditions of this agreement shall

32 be binding upon and inure to the benefit of the parties hereto, their respective successors and assigns.

33 I. Headings:

All headings in this agreement are for reference purposes only and have no binding effect on the terms, conditions or provisions of this agreement.

36 J. Indemnity for Access to Contract Area:

Each Non-Operator shall indemnify and hold Operator harmless against any and all liability in excess of insurance coverage carried for the joint account for injury to each such Non-Operator's officers, employees and/or agents resulting from and in any way relating to such officers', employees', and/or agents' presence on the Contract Area. The Non-Operators indemnity to Operator shall also apply to any other person whose presence on the Contract Area is at the insistence of such Non-Operator.

41 K. Working Interest Adjustment:

Subject to approval by the State, any recalculation or adjustment of the Parties' Exhibit "A" working interests pursuant to Articles VIII.A, VIII.B, XVI.L or XVI.N of this Agreement shall be recalculated or adjusted after written notice is provided to the affected party(ies) of such recalculation or adjustment of working interest. Such recalculation or adjustment shall be made effective as of the date of the lease surrender, renewal, acquisition and/or Contract Area / Drilling Unit Adjustment; provided, however, any such recalculation or adjustment to the Parties' working interests prior to the date of the first sale of production from such Drilling Unit shall be made effective as of the date first costs were incurred on and for such Drilling Unit.

48 This Article XVI.M shall not apply to loss or failure of title pursuant to Article IV.B of this Agreement.

49 L. Contract Area / Drilling Unit Adjustment:

50 Subject to approval by the State, it is recognized by the Parties consenting to unit operations that it may be prudent and/or 51 necessary to enlarge or reduce the size of an existing Contract Area / Drilling Unit and/or include within an existing Contract Area / 52 Drilling Unit acreage which was not initially included therein. Without the consent of the Parties consenting to unit operations, an 53 existing Contract Area / Drilling Unit may not be enlarged or reduced in size. Such consent shall not be unreasonably withheld, 54 delayed or conditioned. The party proposing such enlargement or reduction to an existing Contract Area / Drilling Unit shall notify 55 the other party(ies) consenting to unit operations in writing, providing an explanation for the Contract Area / Drilling Unit modification proposal. To the extent a Contract Area / Drilling Unit is modified pursuant to this Agreement, the working interests 56 57 of the Parties consenting to unit operations shall be recalculated in the manner set forth in Article XVI L.4. and XVI.M and a 58 modified declaration of pooled unit shall be prepared and filed of record.

59 To the extent the Contract Area is modified pursuant to this Agreement, this Agreement shall be amended with revised Exhibits 60 "A," "A-1," and "A-2."

61 This Article XVI.L shall not apply to the loss or failure of title pursuant to Article IV.B of this Agreement.

62 M. Voting by the Parties

63 Unless otherwise provided for herein, each party to this agreement shall have a voting interest equal to its Unit Participation.

All decisions, determinations, consents or approvals of the parties, unless otherwise provided for herein or in the Unit Agreement attached hereto, shall be made by the affirmative vote of one or more parties having a combined voting interest of at least fifty-one

attached hereto, shall be made by the affirmative vote of one or more parties having a combined voting interest of at least fifty-one
 percent (51%).

67 **N. Term**

This Agreement shall continue in effect so long as the Unit Agreement remains in effect, and thereafter until (a) all wells in the Unit Area have been plugged and abandoned or turned over to Working Interest Owners; (b) all Unit Equipment and real property acquired for the joint account have been disposed of by Unit Operator in accordance with the instructions of Working Interest Owners; and (c) there has been a final accounting.

72 O France Brankford Octomities - Brankford and Others Bra

O. Excess Royalties, Overriding Royalties and Other Payments:
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¹⁵ Unless changed by other provisions, if the interest of any party in any lease covered hereby is subject to any royalty, overriding

royalty, production payment or other burden on production in excess of the amount stipulated in Article III.B., such party so

burdened shall assume and alone bear all such excess obligations and shall indemnify and hold the other parties hereto harmless

- from any and all claims and demands for payment asserted by owners of such excess burden.

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hat the form was printed from a Dperating Agreement, as pub nodifications, other than those	and, with the exception(s) listed b blished in computerized form e made by strikethrough and/or	culated this form for execution, represents and warrants below, is identical to the AAPL Form 610-1989 Model Form by Forms On-A-Disk, Inc. No changes, alterations, or insertion and that are clearly recognizable as changes. in , have been made to the form.
	OPERA	TOR
ATTEST OR WITNESS		
		Chesapeake Exploration, L.L.C., an Oklahoma limited liability company
	By:	Jim R. Dewbre
	T:41	Vice Develdent I and
	Title: Address:	Vice President – Land P.O. Box 18496, Oklahoma City, OK 73154-0496

EXHIBIT "A"

Attached to and made a part of that certain Unit Operating Agreement dated November 13, 2018, as approved by the Ohio Department of Natural Resources, Division of Oil and Gas Resources Management, for the Smith Unit.

(1) Identification of lands subject to this agreement.

The Contract Area is shown on Exhibit "A-1" attached hereto.

(2) <u>Restrictions as to depths and formations</u>.

This Agreement shall cover the Unit Area from fifty feet above the top of the Utica Shale to fifty feet below the base of the Point Pleasant formation (as more particularly defined in Article 1 of the Unit Agreement).

(3) Percentages or fractional interests of parties to this agreement*

The owners and interests of the owners are set forth in Exhibit "A-2" attached hereto.

(4) Oil and gas leases and/or oil and gas interests subject to this agreement.

Operator	Working Interest
Chesapeake Exploration, L.L.C.**	0.258586%*
Non Operator	
CHK Utica, L.L.C.**	0.314861%*
TOTAL E&P USA, Inc.**	19.114885%*
EAP Ohio, LLC	61.854996%*
Eclipse Resources – Ohio, LLC	11.188291%*
Doris Kimble	3.023871%*
Unleased Mineral Owners	4.244510%*
Total:	100.000000%

(5) Addresses of parties for notice purposes.

Chesapeake Exploration, L.L.C. P. O. Box 18496 Oklahoma City, Oklahoma 73154-0496 Attention: Jim R. Dewbre, Vice President – Land

The names and addresses of the remaining parties are set forth in Exhibit "A-3", Exhibit "A-4", Exhibit "A-5", and Exhibit "A-6" attached hereto.

* It is understood by the parties that the working interests listed in this Unit Operating Agreement (and any attachments hereto) are estimates only and are subject to change based upon final verification of title, due diligence, additional leasehold acquired within the Contract Area, and/or the participation or non-participation of unleased mineral interests and/or third parties. The parties' interests shall be adjusted to reflect the actual interest owned by the parties in the Contract Area.

** Chesapeake Exploration, L.L.C., as operator of the proposed unit, is authorized to file this Application on behalf of TOTAL E&P USA, Inc., with whom Chesapeake has a Development Agreement and a global Joint Operating Agreement, and CHK Utica, L.L.C., as a wholly controlled Chesapeake entity, which is also a party to the Development Agreement.

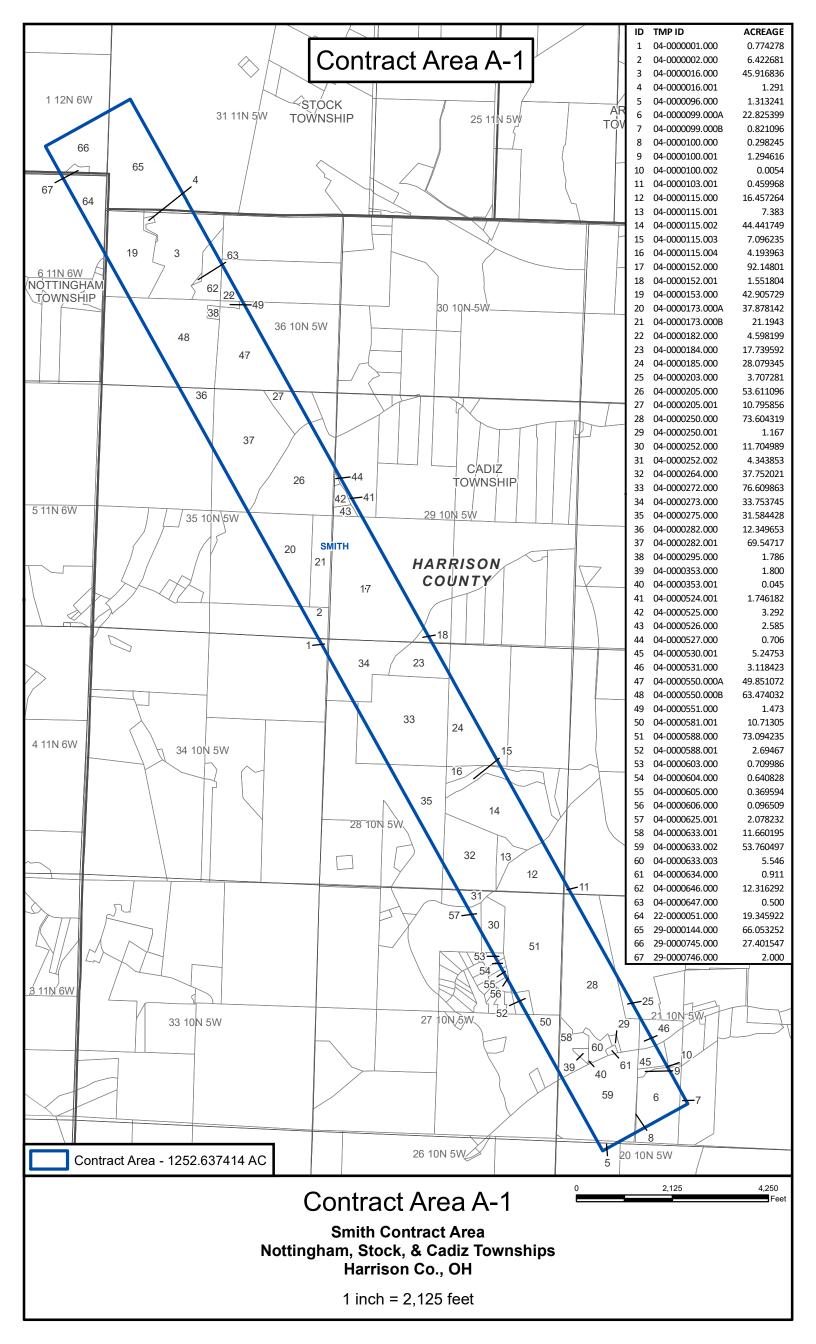


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III INSIGN PARAMETRINSPOND V ORDES	10	34-038751-001	MARY ANN PORTER	Y																		Working
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N Normal Control N Normal Normal <td>11</td> <td>1-360025-001**</td> <td>REMORA, LLC (5/24)</td> <td>Y</td> <td>0.208333</td> <td>0.095827</td> <td>0.00007650</td> <td>04-0000103.001</td> <td>CADIZ</td> <td>HARRISON</td> <td>0.007650%</td> <td>0.000005%</td> <td>0.000053%</td> <td>0.001913%</td> <td>0.005680%</td> <td>0.00000%</td> <td>0.000000%</td> <td></td> <td>OKLAHOMA CITY</td> <td>OK</td> <td>73112</td> <td>Working</td>	11	1-360025-001**	REMORA, LLC (5/24)	Y	0.208333	0.095827	0.00007650	04-0000103.001	CADIZ	HARRISON	0.007650%	0.000005%	0.000053%	0.001913%	0.005680%	0.00000%	0.000000%		OKLAHOMA CITY	OK	73112	Working
I Diskasta Di																		104				
III DELECT DELECT <td>11</td> <td>1-360025-001**</td> <td>WILLOW POINT CORPORATION (5/24)</td> <td>Y</td> <td>0.208333</td> <td>0.095827</td> <td>0.00007650</td> <td>04-0000103.001</td> <td>CADIZ</td> <td>HARRISON</td> <td>0.007650%</td> <td>0.000005%</td> <td>0.000053%</td> <td>0.001913%</td> <td>0.005680%</td> <td>0.00000%</td> <td>0.000000%</td> <td>ATTN: WILLIAM R. PARR</td> <td>OKLAHOMA CITY</td> <td>OK</td> <td>73162</td> <td>Working</td>	11	1-360025-001**	WILLOW POINT CORPORATION (5/24)	Y	0.208333	0.095827	0.00007650	04-0000103.001	CADIZ	HARRISON	0.007650%	0.000005%	0.000053%	0.001913%	0.005680%	0.00000%	0.000000%	ATTN: WILLIAM R. PARR	OKLAHOMA CITY	OK	73162	Working
Image: Note:	11	UNLEASED	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS,	N	0.031250	0.014374	0.00001147	04-0000103.001	CADIZ	HARRISON	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%	0.00000%	0.000000%	5151 LAKESIDE DR	MASON	OH	45040	Row In
NUMBER NUMBER<																						c
Image: Note of the second se																						
Image: Problem	11	UNLEASED	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS,	N	0.031250	0.014374	0.00001147	04-0000103.001	CADIZ	HARRISON	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%	133 FAIRWAY CIR	NORWALK	OH	44857	Row Ins
Image:			DEVISEES, OR ASSIGNS OF POLLY A. KIRKPATRICK, INCLUDING:																			
Image: Normal State			JODI E. CARPENTER (1/32)																			
Image: Network	11	UNLEASED	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS,	N	0.031250	0.014374	0.00001147	04-0000103.001	CADIZ	HARRISON	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%	0.00000%	0.000000%	190 EUCLID AVE	WADSWORTH	OH	44281	Row In
Instruction			INCLUDING:																			
Image: Note:			MICHELLE A. SMITH (1/32)																			
Image: Network in the second	11	UNLEASED		N	0.031250	0.014374	0.00001147	04-0000103.001	CADIZ	HARRISON	0.000000%	0.00000%	0.00000%	0.00000%	0.000000%	0.00000%	0.000000%	4 HIGH ST	NORWALK	OH	44857	
Image: Name: North Anchorement North Anchorement North Anchorement North Anchorement North Anchorement North Anchorement North North Anchorement North North North Anchorement North		1	INCLUDING																		1	1
Image: Second		INIT COST	TRACY L. KONIK (1/32)		0.041<22	0.010177	0.00001500	04.0000102.001	CUDIT	HADDICOL	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000005	0.0000000	CEEP MADE DODOUTE ANT	LOUISCHUT	<u></u>	4.00	-
Image: space	11	UNLEASED		N	0.041667	0.019165	0.00001530	04-0000103.001	CADIZ	HARRISON	0.00000%	0.00000%	0.00000%	0.00000%	0.00000%	0.00000%	0.00000%	3555 MAPLEGROVE AVE	LOUISVILLE	OH	44641	1
Image: Constraint of the		1																			1	1
Image: Construct of the CONSON CO-PERSION CRUST DATE: 10 Image: Construct of the CONSON CO-PERSION CO-P		1	JOINT REVOCABLE TRUST DATED APRIL 11, 2013 (1/24)																			
Family Revised and the second secon	11	UNLEASED		N	0.041667	0.019165	0.00001530	04-0000103.001	CADIZ	HARRISON	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%	5393 AULT AVE NE	LOUISVILLE	OH	44641	
DecCABER 2, 300 (12) DecCABER		1																			1	1
11 INLEASED DONALD M. KINKPATRICK (1/2) N 0.01066 0.00000% 0.00000% 0.00000% <		1																				
12 1-35645500 IOSEPH E JONETRE AND LINDA K. PORTER (HW,T) Y 1.00000 1.647264 0.01313809 0.4000115.00 CADIZ HARRISN 0.1313809/L 0.00000% 0.00000% 0.00000% <	11		DONALD M. KIRKPATRICK (1/24)	N																6	00107	
13 1-3546/7-000 FANK J. MOLL AND LORNPAL. MOLL (HW,T)T Y 1.00000 7.383000 0.000599 0.0003798 0.0000076 0.1473996 0.0376278 0.00000076 6.937 RCHWLLE DR SW CANTON OH 44706 Works 15 1-55467-000 FANK J. MOLL AND LORNPAL. MULL (HW,T)T Y 1.00000 7.98235 0.0005596 0.0000076 0.0																						Working
14 ECLIPSE FRANK J. MOLL AND LORNDAL MOLL (HW,T)T Y 1.00000 4.441749 0.0355454 0.40001502 CADIZ HARRISON 0.00000% 0.00000% 0.00000% 0.00000% 0.00000% 0.00000% 6.937 RCHVILLE DR SW CANTON OH 44706 Vaca 16 1-5564700 FRANK J. MOLL AND LORNDAL MOLL (HW,T)T Y 1.00000 4.19983 0.0035634 0.40001500 CADIZ HARRISON 0.00021% 0.00021% 0.00000% 0.00000% 6.937 RCHVILLE DR SW CANTON OH 44706 Vaca 17 341.0007-00 WITTNYE LIXE KRUK (MIT (I/n) Y 0.00005 0.00005 0.00000% 0.00000% 6.937 RCHVILLE DR SW CANTON OH 44706 Vaca		1-356467-000	FRANK J. MOLL AND LORINDA L. MOLL (H/W, JT)	Y	1.000000	7.383000	0.00589396	04-0000115.001	CADIZ	HARRISON	0.589396%	0.000354%	0.004067%	0.147349%	0.437627%	0.000000%	0.000000%	6393 RICHVILLE DR SW	CANTON	OH	44706	Working
16 1-354647-000 FRANK J. MOLL AND LORINAL MULL (HW,T)T Y 1.00000 4.19948 0.0003140 0.0003140 0.0002149 0.0002149 0.0002149 0.0002149 0.0002149 0.0002149 0.0002149 0.0000096 6.938 RCFW LLE DR SW CANTON< H 44706 Workit 17 341-0007-00 WITTENYE LYSK RMMARGART KNIGHT (/10) Y 0.0000096 9.214801 0.0073562 0-400015200 CADIZ HARRISON 0.735632% 0.000041% 0.0050766 0.1839088 0.546207% 0.0000096 46138 LINKNAL RD CADIZ OH 43907 Workit 17 341-0007-00 MCRAN ANDER WINGET (/10) Y 0.000009 9.214801 0.0073562 0-400015200 CADIZ HARRISON 0.755632% 0.00041% 0.0050766 0.1839088 0.546207% 0.0000096 8.101 KNANSKI RD CADIZ OH 43907 Workit 17 341-0007-00 REFEW M SNGHT (/10,0 Y 0.000009 0.0000076 0.1839088 0.546207% 0.0000096 8.0000096 CADIZ OH 43907 Workit 0.000066 0.0000096 0.0000096	14	ECLIPSE	FRANK J. MOLL AND LORINDA L. MOLL (H/W, JT)	Y			0100001															
17 34.4000700 NHTREY LYSE KNGHT (1/10) Y 0.00000 9.214801 0.0075622 0.40001200 CADZ HARRSON 0.5582% 0.00001% 0.18309% 0.54620% 0.00000% 6.770 KURLONCAT D CADZ HARRSON Variable 17 341.000700 NTIRENE NAGRET KNGHT, KURLIT (1/10) Y 0.00000% 0.00000	15			Y															CANTON		44706	Working
17 341-000700 MCREMERT KNIGHT (AID) Y 0.10000 9.214801 0.0075632 0-0000152.000 CADIZ HARRISON 0.005870% 0.18890% 0.54620% 0.00000% 46181 KNINKVALE RD CADIZ OH 43907 Works 17 341-0007-00 MOGRAA NADREW KNIGHT (/1/0) Y 0.00000 9.214801 0.0075632 0-4000152.000 CADIZ HARRISON 0.005870% 0.18890% 0.54620% 0.00000% 8101 KNNXLE RD CADIZ OH 43907 Works 17 341-0007-00 REFREY M KNIGHT (/1/0) Y 0.00005 0.015200 CADIZ OH 43907 Works 10 341-0007-00 REFREY M KNIGHT (/1/0) Y 0.00005200 CADIZ HARRISON 0.755632% 0.00004% 0.54520% 0.00000% 0.00000% 8110 KNNXLE RD CADIZ OH 43907 Works 1610	17	341-00007-000	WHITNEY ELYSE KNIGHT (1/10)	Ŷ	0.100000	9.214801	0.00735632	04-0000152.000	CADIZ	HARRISON	0.735632%	0.000441%	0.005076%	0.183908%	0.546207%	0.000000%	0.000000%	64771 OVERLOOK CT	BELLAIRE	OH	43906	Working
17 344000700 LISUNE LIZABETH KNIGHT (1/10) Y 0.10000 9.214801 0.0005200 CADIZ 0.4001200 CADIZ 0.00000% 1.018308 0.14800% 0.00000% 0.00000% 8110 KANOSK RD CADIZ OH 4307 Varian 10 1.5500000 CRGRE E. MLIS Y 1.00000 55.886 0.0411372 0.40001200 CADIZ 0.00000%	17			Y								0.000441%									43907	Workins
17 34.0007.00 LEFREY M KNOHT AND DEBRA A KNOHT (HW, JT) Y 0.00000 52.8886 0.041372 0.000052.00 CADIZ AHRISON Austison 0.000058 0.00000% 0	17	341-00007-000	ALLISON ELIZABETH KNIGHT (1/10)	Y	0.100000	9.214801	0.00735632	04-0000152.000	CADIZ	HARRISON	0.735632%	0.000441%	0.005076%	0.183908%		0.000000%	0.000000%	81101 KANOSKI RD	CADIZ	OH	43907	Working
19 34-424082 or 10 x 120 x 1 DWDLE FRUSTE oF THE DWDLE FAMILY Y 1000000 42:05729 0.0420035.000 CADIZ 10.02569% 0.00000% 0.85636% 2:54323% 0.00000% 0.00000% 3895 DEERSVILLE RIDGE RD CADIZ OH 43:907 Weda 20 DORIS KIMEL** STANLEY & ENTINGER AND SHELA & BITTINGER AND SH	17	341-00007-000	JEFFREY M. KNIGHT AND DEBRA A. KNIGHT (H/W, JT)	Y	0.600000	55.288806		04-0000152.000			4.413792%		0.030455%		3.277240%			81101 KANOSKI RD	CADIZ			Working
19 34.04308200 ALICAL DOWDLE TRUSTE OF THE DOWDE FAMILY Y 1.00000 42.905729 0.0432531 0.4000153.000 CADIZ HARRISON 3.42531% 0.025689% 0.00000% 0.85630% 2.543234% 0.00000% 3895 DEERSVILLE RIDGE RD CADIZ OH 43.907 Working 20 DORIS KIMBL** STANLEY & RUTTINGER AND SHELA & BITTINGER AND SHELA & BI	18			Y	1.000000	1.551804	0.00123883	04-0000152.001	CADIZ	HARRISON	0.123883%	0.000074%	0.000855%	0.030971%	0.091983%	0.000000%	0.000000%	39485 ORR RD	CADIZ	OH	43907	Working
Image: contract rest in the state in th		34-034082-000		Ŷ		42.905729	0.03425231	04-0000153.000				0.025689%	0.000000%		2.543234%	0.000000%	0.000000%				43907	Working
Image: Discriminant d	20	DORIS VIMPLE**	TRUST, DATED MARCH 20, 2017 STANLEY R RITTINGER AND SHELLA K. DITTINCED (UAV	v	1.000000	37 870147	0.03022971	04-0000172.0004	CADIZ	HARPISON	0.0000004	0.0000004	0.00000044	0.0000004	0.0000008	0.0000000	3.0239716	81331 HIMES DIV	CADIZ	On	42007	
Image: Properties of the state of the s	20		JT)																			
7895A STONY POINT RD NW Correc	21	UNLEASED	STANLEY R. BITTINGER AND SHEILA K. BITTINGER (H/W,	N	1.000000	21.194300	0.01691974	04-0000173.000B	CADIZ	HARRISON	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%	81331 HINES RD	CADIZ	OG	43907	
7895A STONY POINT RD NW Correc	22	34-0001312-000	WILDWOOD ESTATES, LLC	Y	1.000000	4.598199	0.00367081	04-0000182.000	CADIZ	HARRISON	0.367081%	0.002753%	0.000000%	0.091770%	0.272558%	0.000000%	0.000000%	ATTN: MARK E. SHROCK	SUGARCREEK	OH	44681	Working
				1 .																		Correcte

24	341-00638-000	HARRISON LEASING COMPANY	Y	1.000000	28.079345	0.02241618	04-0000185.000	CADIZ	HARRISON	2.241618%	0.000000%	0.000000%	0.000000%	2.241618%	0.000000%	0.000000%	ATTN: JAMES E. CARNES P.O. BOX 246	CADIZ	OH	43907	Working Interest Adjusted
25	34-023868-000	ROY HILDRETH, JR.	Y	1.000000	3.707281	0.00295958	04-0000203.000	CADIZ	HARRISON	0.295958%	0.000178%	0.002042%	0.073990%	0.219749%	0.000000%	0.000000%	79570 ARNOLD RD	CADIZ	OH	43907	Working Interest Adjusted
26	ECLIPSE ECLIPSE	PAUL MILLER, JR. AND FRIEDA E. MILLER (H/W, JT) (3/8) ANDY YODER, JR. AND SUE R. YODER (H/W, JT) (3/8)	Y	0.375000	20.104161 20.104161	0.01604947 0.01604947	04-0000205.000 04-0000205.000	CADIZ	HARRISON HARRISON	0.00000%	0.00000%	0.000000%	0.00000%	0.00000%	1.604947% 1.604947%	0.000000%	6784 TOWNSHIP RD 423 4751 TOWNSHIP RD 616	DUNDEE FREDRICKSBURG	OH	44624 44627	
26	ECLIPSE	HERITAGE RESOURCES - UTICA, LLC (F/K/A AMERICAN	Y	0.375000	13.402774	0.01069964	04-000205.000	CADIZ	HARRISON	0.00000%	0.00000%	0.000000%	0.00000%	0.000000%	1.069964%	0.00000%	ATTN: KRISTEN ROGSTAD	OKLAHOMA CITY	OK	73113	
		ENERGY - UTICA MINERALS, LLC) (1/4)															P.O. BOX 14890				
27	UNLEASED 1-356635-000	JAMES F. HINES JOSEPH E. PORTER AND LINDA K. PORTER (H/W, JT)	N	1.000000 1.000000	10.795856 73.604319	0.00861850 0.05875948	04-0000205.001 04-0000250.000	CADIZ CADIZ	HARRISON HARRISON	0.000000%	0.00000%	0.000000%	0.000000%	0.00000% 4.362891%	0.000000%	0.00000%	38905 DEERSVILLE RIDGE RD 40300 CADIZ-PIEDMONT RD	CADIZ CADIZ	OH	43907 43907	Working Interest Adjusted
29	1-356635-000	JOSEPH E. PORTER AND LINDA K. PORTER (H/W, JT)	Y	1.000000	1.167000	0.00093163	04-0000250.000	CADIZ	HARRISON	0.093163%	0.000056%	0.000643%	0.023291%	0.069174%	0.000000%	0.000000%	40300 CADIZ-FIEDMONT RD 40300 CADIZ-PIEDMONT RD	CADIZ	OH	43907	Working Interest Adjusted
30		JOHN A. COOK AND SUSAN M. COOKE (H/W, JT)	Y	1.000000	11.704989	0.00934428	04-0000252.000	CADIZ	HARRISON	0.934428%	0.000561%	0.006448%	0.233607%	0.693812%	0.000000%	0.000000%	2435 EASTLAWN AVE	AKRON	OH	44305	Working Interest Adjusted
31	ECLIPSE	FRANK J. MOLL AND LORINDA L. MOLL (H/W, JT) FRANK J. MOLL AND LORINDA L. MOLL (H/W, JT)	Y	1.000000	4.343853 37.752021	0.00346777 0.03013803	04-0000252.002	CADIZ	HARRISON	0.00000%	0.000000%	0.000000%	0.000000%	0.000000%	0.346777% 3.013803%	0.000000%	6393 RICHVILLE DR SW 6393 RICHVILLE DR SW	CANTON	OH	44706 44706	
32	UNLEASED***	THE ESTATE OF ROBERT FLEAGANE	Y	1.000000	37.752021 ADVERSE	0.00000000	04-000264.000	CADIZ	HARRISON	0.00000%	0.00000%	0.00000%	0.00000%	0.00000%	0.000000%	0.00000%	ATTN: JON R. FLEAGAN.	MOORPARK	CA	93021	
					OWNERSHIP CLAIM												EXECUTOR				
22	21 0000102 000		N/	1 000000	24 (00042	0.05115005	04.0000222.000	CLDI7	HADDISON	< 1150056/	0.0150500	0.0000004/	1.5200714/	1.5110.154	0.0000000	0.0000000	4594 READ RD	01017	011	12002	
33	34-0000193-000	RICHARD L. SMITH AND BONNIE L. SMITH RICHARD L. SMITH	Y	1.000000	76.609863 33.753745	0.06115885 0.02694614	04-0000272.000 04-0000273.000	CADIZ CADIZ	HARRISON HARRISON	6.115885% 2.694614%	0.045869% 0.020210%	0.000000%	1.528971% 0.673654%	4.541045% 2.000751%	0.000000%	0.000000%	80600 KANOSKI RD 80600 KANOSKI RD	CADIZ CADIZ	OH	43907 43907	Working Interest Adjusted Working Interest Adjusted
35	34-017054-000	RICHARD L. SMITH	Y	1.000000	31.584428	0.02521434	04-0000275.000	CADIZ	HARRISON	2.521434%	0.018911%	0.000000%	0.630359%	1.872165%	0.00000%	0.000000%	80600 KANOSKI RD	CADIZ	OH	43907	Working Interest Adjusted
36	341-00507-000**	RHDK INVESTMENTS, LLC	Y	1.000000	12.349653	0.00985892	04-0000282.000	CADIZ	HARRISON	0.985892%	0.007394%	0.000000%	0.246473%	0.732025%	0.00000%	0.000000%	ATTN: KEITH B. KIMBLE 3596 STATE ROUTE 39 NW	DOVER	OH	44622	Working Interest Adjusted
37	341-00015-000**	RHDK INVESTMENTS, LLC	Y	1.000000	69 547170	0.05552059	04-0000282.001	CADIZ	HARRISON	5 552059%	0.041640%	0.000000%	1 388015%	4.122404%	0.000000%	0.000000%	ATTN: KEITH B KIMBLE	DOVER	OH	44622	Working Interest Adjusted
								-									3596 STATE ROUTE 39 NW				
38		JAKE D. EMERY MARY ANN PORTER	Y	1.000000 1.000000	1.786000 1.800000	0.00142579 0.00143697	04-0000295.000 04-0000353.000	CADIZ CADIZ	HARRISON HARRISON	0.142579% 0.143697%	0.000086%	0.000984% 0.000992%	0.035645% 0.035924%	0.105865% 0.106695%	0.000000%	0.000000%	38445 DEERSVILLE RIDGE RD 40140 CADIZ-PIEDMONT RD	CADIZ CADIZ	OH	43907 43907	Working Interest Adjusted Working Interest Adjusted
40	34-0001137-000	MARY ANN PORTER	Y	1.000000	0.045000	0.0003592	04-0000353.000	CADIZ	HARRISON	0.003592%	0.000027%	0.0000992%	0.000898%	0.002667%	0.00000%	0.00000%	40140 CADIZ-PIEDMONT RD	CADIZ	OH		Working Interest Adjusted
41	34-024122-000**	LOIS POULSON	Ŷ	1.000000	1.746182	0.00139400	04-0000524.001	CADIZ	HARRISON	0.139400%	0.000084%	0.000962%	0.034850%	0.103505%	0.00000%	0.000000%	P.O. BOX 254	FREEPORT	OH	43973	Working Interest Adjusted
10		DONNA MOMILLEN (1/0)	N	0.250000	0.823000	0.00065701	04-0000525.000	CADIZ	HARRISON	0.00000%	0.000000%	0.000000%	0.000000%	0.000000%	0.00000%	0.000000%	38955 DEERSVILLE RIDGE ROAD	CADIZ	OH	43907 43907	Added second address
42	UNLEASED	DONNA MCMILLEN (1/4) GINGER HELD (1/4)	N	0.250000 0.250000	0.823000	0.00065701	04-0000525.000	CADIZ	HARRISON	0.00000%	0.00000%	0.00000%	0.00000%	0.00000%	0.00000%	0.00000%	37475 DEERSVILLE RIDGE RD 644 KERR AVE	CADIZ	OH OH	43907	
42	UNLEASED	BARBARA JAYNE HORNER (1/4)	N	0.250000	0.823000	0.00065701	04-0000525.000	CADIZ	HARRISON	0.00000%	0.000000%	0.000000%	0.000000%	0.000000%	0.00000%	0.000000%	31800 YMCA RD	TIPPECANOE	OH	44699	Added second address
10	24.0001052.051	LAMES E HINES (1/4)		0.350000	0.000000	0.00067201	04.0000222.000	CADIT	HADDISON	0.0682010	0.00000000	0.00000000	0.0000000	0.0652014	0.0000000	0.0000000	31811 YMCA RD	TIPPECANOE	OH	44699	Weshing Internet A.V.
42		JAMES F. HINES (1/4) DONNA MCMILLEN (1/4)	Y	0.250000	0.823000 0.646250	0.00065701 0.00051591	04-0000525.000 04-0000526.000	CADIZ	HARRISON HARRISON	0.065701%	0.00000%	0.00000%	0.00000%	0.065701% 0.000000%	0.00000%	0.000000%	38905 DEERSVILLE RIDGE RD 37475 DEERSVILLE RIDGE RD	CADIZ	OH	43907 43907	Working Interest Adjusted
43	UNLEASED	GINGER HELD (1/4)	N	0.250000	0.646250	0.00051591	04-0000526.000	CADIZ	HARRISON	0.000000%	0.00000%	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%	644 KERR AVE	CADIZ	OH	43907	1
43	UNLEASED	BARBARA JAYNE HORNER (1/4)	N	0.250000	0.646250	0.00051591	04-0000526.000	CADIZ	HARRISON	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%	0.00000%	0.000000%	31800 YMCA RD	TIPPECANOE	OH	44699	Added second address
43	24.0001062.001	JAMES F. HINES (1/4)	v	0.250000	0.646250	0.00051591	04-0000526.000	CADIZ	HARRISON	0.051591%	0.000000%	0.000000%	0.000000%	0.051591%	0.000000%	0.000000%	31811 YMCA RD 38905 DEERSVILLE RIDGE RD	TIPPECANOE CADIZ	OH	44699 43907	Working Interest Adjusted
45	10001953-001 UNLEASED	DONNA MCMILLEN (1/4)	Y N	0.250000	0.646250	0.00051591	04-000526.000	CADIZ	HARRISON	0.051591%	0.00000%	0.00000%	0.00000%	0.051591%	0.00000%	0.00000%	38905 DEERS VILLE RIDGE RD 37475 DEERS VILLE RIDGE RD	CADIZ	OH	43907	Working Interest Adjusted
44	UNLEASED	GINGER HELD (1/4)	N	0.250000	0.176500	0.00014090	04-0000527.000	CADIZ	HARRISON	0.00000%	0.000000%	0.000000%	0.000000%	0.000000%	0.00000%	0.000000%	644 KERR AVE	CADIZ	OH	43907	
44	UNLEASED	BARBARA JAYNE HORNER (1/4)	N	0.250000	0.176500	0.00014090	04-0000527.000	CADIZ	HARRISON	0.00000%	0.000000%	0.000000%	0.000000%	0.000000%	0.00000%	0.000000%	31800 YMCA RD	TIPPECANOE	OH	44699	Added second address
44	24.0001052.001	JAMES F. HINES (1/4)	v	0.250000	0.176500	0.00014090	04-0000527.000	CADIZ	HARRISON	0.014090%	0.000000%	0.000000%	0.000000%	0.014090%	0.000000%	0.000000%	31811 YMCA RD 38905 DEERSVILLE RIDGE RD	TIPPECANOE CADIZ	OH	44699 43907	Working Interest Adjusted
44		JAMES F. HINES (1/4) IOSEPH E. PORTER AND LINDA K. PORTER (H/W. IT)	Y	1.000000	5 247530	0.00014090	04-000530.001	CADIZ	HARRISON	0.014090%	0.00000%	0.000000%	0.000000%	0.014090%	0.000000%	0.000000%	40300 CADIZ-PIEDMONT RD	CADIZ	OH		Working Interest Adjusted Working Interest Adjusted
46		JOSEPH E. PORTER AND LINDA K. PORTER (H/W, JT)	Ŷ	1.000000	3.118423	0.00248949	04-0000531.000	CADIZ	HARRISON	0.248949%	0.000149%	0.001718%	0.062237%	0.184844%	0.000000%	0.000000%	40300 CADIZ-PIEDMONT RD	CADIZ	OH		Working Interest Adjusted
47		CLIFFORD W. DUNLAP (1/8)	Y	0.125000	6.231384	0.00497461	04-0000550.000A	CADIZ	HARRISON	0.497461%	0.000298%	0.003432%	0.124365%	0.369365%	0.000000%	0.000000%	38480 DEERSVILLE RIDGE RD	CADIZ	OH	43907	Working Interest Adjusted
47	34-016040-001	GLORIA W. RUDDICK (1/8) FLORENCE A. MCKIBBEN (1/8)	Y	0.125000 0.125000	6.231384 6.231384	0.00497461 0.00497461	04-0000550.000A 04-0000550.000A	CADIZ	HARRISON HARRISON	0.497461%	0.000298% 0.000298%	0.003432%	0.124365% 0.124365%	0.369365% 0.369365%	0.000000%	0.000000%	5000 CHESTERFIELD RD 39160 OLD PIEDMONT RD	ARLINGTON CADIZ	VA OH	22206 43907	Working Interest Adjusted Working Interest Adjusted
47	34-016040-001	CAROL L. HEAVILIN (1/8)	Y	0.125000	6.231384	0.00497461	04-0000550.000A	CADIZ	HARRISON	0.497461%	0.000298%	0.003432%	0.124365%	0.369365%	0.000000%	0.000000%	81299 RED EYE RD	FREEPORT	OH		Working Interest Adjusted
47	UNLEASED	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS,	N	0.100000	4.985108	0.00397969	04-0000550.000A	CADIZ	HARRISON	0.000000%	0.000000%	0.000000%	0.000000%	0.00000%	0.00000%	0.000000%	C/O MAXINE FINICAL	CLINTON	OH	44216	2
47	UNLEASED	DEVISEES, OR ASSIGNS OF EDWIN R. FINICAL IOHN R. FINNICAL AND THE NORTHERN TRUST BANK OF	N	0.050000	2.492553	0.00198984	04-0000550.000A	CADIZ	HARRISON	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%	2667 DEIBEL RD C/O JOHN R FINNICAL	MURRELLS INLET	SC	29570	
		LORDA, NA., CO-TRUSTEES OF THE JOHN A FINNICAL DECLARATION OF TRUST DATED JUNE 2, 1967, 6, 8 RESTATED MARCH 6, 1985; FIRST AMENDMENT DATED MAY 30, 1989; SECOND AMENDMENT DATED PRIL 5, 1993; CHIRD AMENDMENT DATED OCTOBER 3, 1993 (GST EXEMPT TRUST A AND GST NON-EXEMPT TRUST A, AND GST EXEMPT TRUST B AND GST NON-EXEMPT TRUST B)															TRUSTEE 1170 KIAWAH LOOP C/O NORTHERN TRUST BANK OF FLORIDA, N.A. 2201 S.E. KINGSWOOD TER	STUART	FL	34996	
47	UNLEASED	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, DEVISEES, OR ASSIGNS OF WILLIAM R. FINNICAL, INCLUDING THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, DEVISEES, OR ASSIGNS OF JOANNE ELIZABETH FINNICAL: ROBIN MOSER (1/3)	N	0.016667	0.830852	0.00066328	04-0000550.000A	CADIZ	HARRISON	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%	415 W MAIN ST	BARNESVILLE	OH	43713	Row Inserted (Combined cells split)
47	UNLEASED	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, DEVISEES, OR ASSIGNS OF WILLIAM R. FINNICAL, INCLIDING THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, DEVISEES, OR ASSIGNS OF JOANNE ELIZABETH FINNICAL (2) WILLIAM EFINICAL (2)	N	0.016666	0.830851	0.00066328	04-0000550.000A	CADIZ	HARRISON	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%	0.00000%	0.000000%	105 WINDERMERE DR	SAINT CLAIRS VILLE	OH	43950	Row Inserted (Combined cells split)
47	UNLEASED	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, DEVISEES, OR ASSIGNS OF WILLIAM R. FINNICAL, INCLUDING THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, DEVISEES, OR ASSIGNS OF JOANNE ELIZABETH FINNICAL: ALLAN FENNICAL (1/3)	N	0.016666	0.830851	0.00066328	04-0000550.000A	CADIZ	HARRISON	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%	8527 GROVELAND CT	NEW ALBANY	OH	43054	
47	34-0003751-005	THE KNOWN AND UNNOWN HERES SUCCESSORS, DEVISEES, OR ASSIGNS OF THOMAS NELSON FINICAL, SR. INCLIDING: THOMAS NELSON FINICAL, JR. (1/3)	Y	0.033334	1.661703	0.00132656	04-0000550.000A	CADIZ	HARRISON	0.132656%	0.000000%	0.000000%	0.000000%	0.132656%	0.00000%	0.000000%	23005 N 74TH ST UNIT 4060	SCOTTSDALE	AZ	85255	New Lease Added Row Inserted Working Interest Updated Replaced James Douglas Finical, Decased (1/3), with Douglas M. Finical (1/9), Leslie J. Jaubert (1/9), and T. Carson Finical (1/9) and provided their addresses.
47	UNLEASED	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, DEVISEES, OR ASSIGNS OF THOMAS NELSON FINICAL, SR. INCLUDING: IRVIN E. FINICAL (1/3)	N	0.033333	1.661703	0.00132656	04-0000550.000A	CADIZ	HARRISON	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%	2661 N BAHANA DR	TUCSON	AZ	85715	provided their addresses. Row Inserted Replaced James Douglas Finical, Decased (1/3), with Douglas M. Finical (1/9), Leslie J. Jaubert (1/9), and T. Carson Finical (1/9) and provided their addresses.
47	UNLEASED	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, DEVISEES, OR ASSIGNS OF THOMAS NELSON FINICAL, SR. INCLUDING THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, DEVISEES, OR ASSIGNS OF JAMES DOUGLAS FINICAL, DECEASED (J/3): DOUGLAS M. FINICAL (1/9)	N	0.011111	0.553901	0.00044219	04-0000550.000A	CADIZ	HARRISON	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%	2661 N BAHANA DR	TUCSON	AZ	85715	rovided their addresses. Row Inserted Replaced James Douglas Finical, Decased (1/3), with Douglas M. Finical (1/9), Leslie J. Jaubert (1/9), and T. Carson Finical (1/9) and provided their addresses.

47			0.01111	0.552007	0.00044017	04.0000550.007	CL DIG	HADDIGG	0.0000000	0.000000.	0.0000001	0.0000000	0.0000001	0.0000000	0.0000000		CANEL DOG(05405	
47	UNLEASED	THE KNOWN AND UNKNOWH HEIRS, SUCCESSORS, N DEVISEES, OR ASSIGNS OF THOMAS NELSON FINICAL, SR. INCLUDING THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, DEVISEES, OR ASSIGNS OF JAMES	0.011111	0.553900	0.00044219	04-0000550.000A	CADIZ	HARRISON	0.000000%	0.000000%	0.000000%	0.00000%	0.000000%	0.000000%	0.000000%	253 DOYLE DR	SANTA ROSA	CA	95405	Row Inserted Replaced James Douglas Finical, Decased (1/3), with Douglas M. Finical (1/9),
47		DOUGLAS FINICAL, DECEASED (1/3): LESLIE M. JAUBERT (1/9)																		Leslie J. Jaubert (1/9), and T. Carson Finical (1/9) and provided their addresses.
	UNLEASED	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, N DEVISEES, OR ASSIGNS OF THOMAS NELSON FINICAL, SR. INCLUDING THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, DEVISEES, OR ASSIGNS OF JAMES	0.011111	0.553900	0.00044219	04-0000550.000A	CADIZ	HARRISON	0.000000%	0.000000%	0.000000%	0.00000%	0.000000%	0.00000%	0.000000%	26411 MARSALA WAY	MISSION VIEJO	CA	92692	Replaced James Douglas Finical, Decased (1/3), with Douglas M. Finical (1/9), Leslie J. Jaubert (1/9), and T.
		DOUGLAS FINICAL, DECEASED (1/3): T. CARSON FINICAL (1/9)																		Carson Finical (1/9) and provided their addresses.
47	UNLEASED	TODD S. RAMSEY Y	0.025000	1.246276	0.00099492	04-0000550.000A	CADIZ	HARRISON	0.099492%	0.000000%	0.000000%	0.000000%	0.099492%	0.000000%	0.000000%	1715 BESLEY RD	VIENNA	VA	22182	Working Interest Adjusted
47	UNLEASED		0.025000	1.246276	0.00099492	04-0000550.000A	CADIZ	HARRISON	0.099492%	0.000000%	0.000000%	0.000000%	0.099492%	0.000000%	0.000000%	2298 RADFORD ST NW	NORTH CANTON	OH	44720	Updated address Working Interest Adjusted
47	UNLEASED			2.492554	0.00198984	04-0000550.000A 04-0000550.000A	CADIZ	HARRISON	0.00000%	0.000000%	0.00000%	0.00000%	0.000000%	0.000000%	0.000000%	1924 COUNTY RD 47	IRONDALE	OH	43932	Updated address
47	34-0003751-002	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, Y Y DEVISEES, OR ASSIGNS OF CLARA ROGERS, INCLUDING THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, DEVISEES, OR ASSIGNS OF ELLEN O. WILLIS, INCLUDING: LINDA M. PATRICK (1/4)	0.025000	1.246277	0.00099492	04-0000550.000A	CADIZ	HARRISON	0.099492%	0.000000%	0.0000096	0.000000%	0.099492%	0.00000%	0.000000%	240 BENNETT ST	CROOKSVILLE	OH	43731	Working Interest Adjusted
47	34-0003571-001	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, Y DEVISES, OR ASSIGNS OF CLARA ROCEERS, INCLUDING THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, DEVISEES, OR ASSIGNS OF FELLEN O. WILLS, INCLUDING; RUTH CARTER (1/4)	0.025000	1.246277	0.00099492	04-0000550.000A	CADIZ	HARRISON	0.099492%	0.00000%	0.000000%	0.000000%	0.099492%	0.00000%	0.000000%	P.O. BOX 222	BYESVILLE	OH	43723	Working Interest Adjusted
47	34-0003571-004	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, Y DEVISEES, OR ASSIGNS OF CLARA ROGERS, INCLIDING THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, DEVISEES, OR ASSIGNS OF FLLEN O. WILLIS, INCLUDING: NANCY K, ANDERSON (1/4)	0.025000	1.246277	0.00099492	04-0000550.000A	CADIZ	HARRISON	0.099492%	0.000000%	0.000000%	0.000000%	0.099492%	0.00000%	0.000000%	1312 SUNSWEPT CIR	RALEIGH	NC	27603	Working Interest Adjusted
47	34-0003571-003		0.025000	1.246277	0.00099492	04-0000550.000A	CADIZ	HARRISON	0.099492%	0.000000%	0.000000%	0.000000%	0.099492%	0.000000%	0.000000%	3568 REAR S. CHAMPION AVE 81 OREGON AVE	COLUMBUS NEWARK	OH OH	43207 43055	Working Interest Adjusted Updated address.
48	34-016040-001	CLIFFORD W. DUNLAP (1/4) Y	0.250000	15.868508	0.01266808	04-0000550.000B	CADIZ	HARRISON	1.266808%	0.000760%	0.008741%	0.316702%	0.940605%	0.000000%	0.000000%	38480 DEERSVILLE RIDGE RD	CADIZ	OH	43907	Working Interest Adjusted
48		GLORIA W. RUDDICK (1/4) Y		15.868508	0.01266808	04-0000550.000B	CADIZ	HARRISON	1.266808%	0.000760%	0.008741%	0.316702%	0.940605%	0.000000%	0.000000%	5000 CHESTERFIELD RD	ARLINGTON	VA	22206	Working Interest Adjusted
48	34-016040-001	FLORENCE A. MCKIBBEN (1/4) Y	0.250000	15.868508	0.01266808	04-0000550.000B	CADIZ	HARRISON	1.266808%	0.000760%	0.008741%	0.316702%	0.940605%	0.00000%	0.000000%	39160 OLD PIEDMONT RD	CADIZ	OH	43907	Working Interest Adjusted
48 49	34-016040-001 34-017056-001	CAROL L. HEAVILIN (1/4) Y CLIFFORD W. DUNLAP AND JACQUELINE S. DUNLAP (H/W, Y	0.250000 1.000000	15.868508 1.473000	0.01266808 0.00117592	04-0000550.000B 04-0000551.000	CADIZ	HARRISON HARRISON	1.266808% 0.117592%	0.000760%	0.008741% 0.000811%	0.316702% 0.029398%	0.940605% 0.087312%	0.000000%	0.000000%	81299 RED EYE RD 38480 DEERSVILLE RIDGE RD	FREEPORT CADIZ	OH OH	43973 43907	Working Interest Adjusted Working Interest Adjusted
50	341-00014-000**	JT) * HERITAGE RESOURCES - UTICA, LLC (F/K/A AMERICAN Y ENERGY - UTICA MINERALS, LLC) (1/2)	0.500000	5.356525	0.00427620	04-0000581.001	CADIZ	HARRISON	0.427620%	0.003207%	0.000000%	0.106905%	0.317508%	0.000000%	0.000000%	ATTN: KRISTEN ROGSTAD P.O. BOX 14890	OKLAHOMA CITY	OK	73113	Working Interest Adjusted
50	341-00014-000	CELIA M. DICKERSON AND RAYMOND L. DICKERSON Y (H/W, JT) (1/2)	0.500000	5.356525	0.00427620	04-0000581.001	CADIZ	HARRISON	0.427620%	0.003207%	0.000000%	0.106905%	0.317508%	0.000000%	0.000000%	39800 CADIZ-PIEDMONT RD	CADIZ	OH	43907	Working Interest Adjusted
51	34-010334-000		1.000000	73.094235	0.05835227	04-0000588.000	CADIZ	HARRISON	5.835227%	0.003501%	0.040263%	1.458807%	4.332656%	0.00000%	0.000000%	40300 CADIZ-PIEDMONT RD	CADIZ	OH	43907	Working Interest Adjusted
52 53	34-0001190-000 34-022941-000	CYNTHIA W. KARTO Y BRIAN GENTRY Y	1.000000 1.000000	2.694670 0.709986	0.00215120 0.00056679	04-0000588.001 04-0000603.000	CADIZ CADIZ	HARRISON HARRISON	0.215120% 0.056679%	0.001613% 0.000034%	0.000000% 0.000391%	0.053780% 0.014170%	0.159726% 0.042084%	0.000000%	0.000000%	407 OAKWOOD DR P.O. BOX 936	CADIZ PEORIA	OH AZ	43907 85380	Working Interest Adjusted Working Interest Adjusted
54	34-013298-000	JOHN A. COOK AND SUSAN M. COOKE (H/W, JT) Y	1.000000	0 640828	0.00051158	04-0000604.000	CADIZ	HARRISON	0.051158%	0.000031%	0.000353%	0.012790%	0.037985%	0.000000%	0.000000%	2435 EASTLAWN AVE	AKRON	OH	44305	Updated address Working Interest Adjusted
55	34-013298-000	JOHN A. COOK AND SUSAN M. COOKE (H/W, JT) Y	1.000000	0.369594	0.00029505	04-0000605.000	CADIZ	HARRISON	0.029505%	0.000018%	0.000204%	0.007376%	0.021908%	0.00000%	0.000000%	2435 EASTLAWN AVE	AKRON	OH	44305	Working Interest Adjusted
56	34-013298-000		1.000000	0.096509	0.00007704	04-0000606.000	CADIZ	HARRISON	0.007704%	0.000005%	0.000053%	0.001926%	0.005721%	0.000000%	0.000000%	2435 EASTLAWN AVE	AKRON	OH	44305	Working Interest Adjusted
57		** BRIAN M. CARR (1/2) Y ** TODD A. RININGER (1/2) Y	0.500000	1.039116 1.039116	0.00082954	04-000625.001 04-000625.001	CADIZ	HARRISON HARRISON	0.082954% 0.082954%	0.000622% 0.000622%	0.00000%	0.020739%	0.061594% 0.061594%	0.00000%	0.000000%	935 SWEET GRASS CIR 892 BRIDGE RD	AURORA	OH	44202 44312	Working Interest Adjusted Working Interest Adjusted
		MARY ANN PORTER Y		11.660195	0.00930852	04-0000633.001	CADIZ	HARRISON	0.930852%	0.000559%	0.006423%	0.232713%	0.691157%	0.000000%	0.000000%	40140 CADIZ-PIEDMONT RD	CADIZ	OH		Working Interest Adjusted
58	1-357007-000	BOUNTY MINERALS, LLC Y	1.000000	53.760497	0.04291784	04-0000633.002	CADIZ	HARRISON	4.291784%	0.002575%	0.029613%	1.072946%	3.186650%	0.000000%	0.000000%	ATTN: JON BRUMLEY 777 MAIN STREET, SUITE 3400	FORT WORTH	TX	76102	Working Interest Adjusted
58 59				5.546000	0.00442746	04-0000633.003	CADIZ	HARRISON	0.442746%	0.000266%	0.003055%	0.110686%	0.328739%	0.00000%	0.000000%	40300 CADIZ-PIEDMONT RD	CADIZ	OH	43907	Working Interest Adjusted
59	34-016177-000		1.000000	0.911000	0.00072727	04-0000634.000	CADIZ	HARRISON	0.072727%	0.000545%	0.000000%	0.018182%	0.053999%	0.000000%	0.000000%	480 SHADYDALE DR	CANFIELD	OH	44406	Working Interest Adjusted
59	34-038782-000	TRUSTEES, THE FERNS FAMILY REOVCABLE LIVING TRUST DATED APRIL 1, 2003																		
59 60 61 62	34-038782-000	TRUSTEES, THE FERNS FAMILY REOVCABLE LIVING TRUST DATED APRIL 1, 2003 HAROLD E. HOWES Y	1.000000	12.316292	0.00983229	04-0000646.000	CADIZ	HARRISON	0.983229%	0.000590%	0.006784%	0.245807%	0.730047%	0.00000%	0.000000%	28800 WESTCHESTER RD	FREEPORT	OH	43973	Working Interest Adjusted
59 60	34-038782-000	TRUST DETED APRIL 1, 2003 TRUST DATED APRIL 1, 2003 HAROLD E. HOWES Y HAROLD E. HOWES Y ANITA L. COULTRAP, TRUSTEE OF THE ANITA L. Y	1.000000	12.316292 0.500000 19.345922	0.00983229 0.00039916 0.01544415	04-0000646.000 04-0000647.000 22-0000051.000	CADIZ CADIZ NOTTINGHAM	HARRISON	0.983229% 0.039916% 1.544415%	0.000590% 0.000024% 0.000927%	0.006784% 0.000275% 0.010656%	0.245807% 0.009979% 0.386104%	0.730047% 0.029637% 1.146728%	0.000000% 0.000000% 0.000000%	0.000000% 0.000000% 0.000000%	28800 WESTCHESTER RD 28800 WESTCHESTER RD 910 E. MARKET ST	FREEPORT FREEPORT CADIZ	OH OH OH		Working Interest Adjusted Working Interest Adjusted Working Interest Adjusted
59 60 61 62 63 64	34-038782-000 34-000118-000 34-000118-000 34-018424-000	TRUSTERS. THE FERNS FAMILY REOVCABLE LIVING TRUST DATE APRIL 1, 2003 HAROLD E, HOWES Y HAROLD E, HOWES Y ANTTA L. COLLTRAP, TRUSTEE OF THE ANITA L. Y COULTRAP REVOCABLE DECLARATION OF TRUST EXECUTED FERMILARY 4, 2013	1.000000 1.000000 1.000000	0.500000 19.345922	0.00039916 0.01544415	04-0000647.000 22-0000051.000	CADIZ NOTTINGHAM	HARRISON HARRISON	0.039916% 1.544415%	0.000024% 0.000927%	0.000275% 0.010656%	0.009979% 0.386104%	0.029637% 1.146728%	0.000000%	0.000000%	28800 WESTCHESTER RD 910 E. MARKET ST	FREEPORT CADIZ	OH OH	43973 43907	Working Interest Adjusted Working Interest Adjusted
59 60 61 62 63 64 65	34-038782-000 34-000118-000 34-000118-000 34-018424-000 34-018424-000	TRUSTEES, THE FERRS FAMILY REOVCABLE LIVING TRUST DATE APRIL 1, 2003 HAROLD E, HOWES Y HAROLD E, HOWES Y ANTTAL COLLTRAP, TRUSTEE OF THE ANITA L Y COLLTRAP, REVOCABLE DECLARATION OF TRUST Y EXECUTED FEBRUARY 4, 2013 Y	1.000000 1.000000 1.000000 1.000000	0.500000 19.345922 66.053252	0.00039916 0.01544415 0.05273134	04-0000647.000 22-0000051.000 29-0000144.000	CADIZ NOTTINGHAM STOCK	HARRISON HARRISON HARRISON	0.039916% 1.544415% 5.273134%	0.000024% 0.000927% 0.039549%	0.000275% 0.010656% 0.000000%	0.009979% 0.386104% 1.318284%	0.029637% 1.146728% 3.915302%	0.000000% 0.000000% 0.000000%	0.000000% 0.000000% 0.000000%	28800 WESTCHESTER RD 910 E. MARKET ST ATTN: DAVID E. MIZER 82701 CHAPEL HILL RD	FREEPORT CADIZ CADIZ	OH OH OH	43973 43907 43907	Working Interest Adjusted Working Interest Adjusted Working Interest Adjusted
59 60 61 62 63 64	34-038782-000 34-000118-000 34-000118-000 34-018424-000	TRUSTESS, THE FERDS FAMILY REOVCABLE LIVING TRUST DATE APRIL 1, 2003 HAROLD E. HOWES Y HAROLD E. HOWES Y ANTA L. COULTRAP, TRINSTEE OF THE ANTA L. Y COULTRAP, TRUSTEE OF THE ANTA L. Y MIZER FARMS, INC. Y LEONHARD MAY AND HANNELORE MAY (HW, JT) Y	1.000000 1.000000 1.000000 1.000000	0.500000 19.345922	0.00039916 0.01544415	04-0000647.000 22-0000051.000	CADIZ NOTTINGHAM	HARRISON HARRISON	0.039916% 1.544415%	0.000024% 0.000927%	0.000275% 0.010656%	0.009979% 0.386104%	0.029637% 1.146728%	0.000000%	0.000000%	28800 WESTCHESTER RD 910 E. MARKET ST ATTN: DAVID E. MIZER	FREEPORT CADIZ	OH OH	43973 43907	Working Interest Adjusted Working Interest Adjusted
60 61 62 63 64 65	34-038782-000 34-038782-000 34-000118-000 34-018424-000 341-00372-000** 341-00370-000	TRUSTESS, THE FERDS FAMILY REOVCABLE LIVING TRUST DATE APRIL 1, 2003 HAROLD E. HOWES Y HAROLD E. HOWES Y ANTA L. COULTRAP, TRINSTEE OF THE ANTA L. Y COULTRAP, TRUSTEE OF THE ANTA L. Y MIZER FARMS, INC. Y LEONHARD MAY AND HANNELORE MAY (HW, JT) Y	1.000000 1.000000 1.000000 1.000000 1.000000	0.500000 19.345922 66.053252 27.401547	0.00039916 0.01544415 0.05273134 0.02187508	04-0000647.000 22-0000051.000 29-0000144.000 29-0000745.000	CADIZ NOTTINGHAM STOCK STOCK	HARRISON HARRISON HARRISON HARRISON	0.039916% 1.544415% 5.273134% 2.187508%	0.000024% 0.000927% 0.039549% 0.016406%	0.000275% 0.010656% 0.000000% 0.000000%	0.009979% 0.386104% 1.318284% 0.546877%	0.029637% 1.146728% 3.915302% 1.624225%	0.00000% 0.00000% 0.00000% 0.00000%	0.000000% 0.000000% 0.000000% 0.000000%	28800 WESTCHESTER RD 910 E. MARKET ST ATTN: DAVID E. MIZER 82701 CHAPEL HILL RD 2610 CANYON TRAIL ATTN: DAVID E. MIZER	FREEPORT CADIZ CADIZ HINCKLEY	OH OH OH OH	43973 43907 43907 44233	Working Interest Adjusted Working Interest Adjusted Working Interest Adjusted Working Interest Adjusted

* INCLUDES LEASED ACRES AND INTERESTS ATTRIBUTABLE TO ANY PARTIALLY LEASED, PARTIALLY UNLEASED TRACTS. ** NON-CONFORMING LEASEHOLD INTEREST.

Total Leased Acres: 1193.484997*

*** DUE TO UNCERTAINITY SURROUNDING THE APPLICATION OF THE OHIO DORMANT MINERAL ACT, TRACT 32 MAY BE OWNED BY AN UNLEASED MINERAL OWNER.

Revised 1/8/2019

					All Unleased	Exhibit A-3 Mineral Owners in the prop	osed Smith Unit.							
Tract Number	Lease ID Number (optional)	Mineral Owner	Leased Yes or No	Decimal Interest in Tract	Surface Acres in Unit	Tract Participation in Unit	Tax Map Parcel ID	Tract Surface Use	Township	County	Address	City	State	Zip
7		THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, DEVISEES, OR ASSIGNS OF POLLY A. KIRKPATRICK, INCLUDING : KEVIN KIRKPATRICK (1/32)	N	0.031250	0.025660	0.00002048	04-0000099.000B	NO	CADIZ	HARRISON	5151 LAKESIDE DR	MASON	ОН	45040
7	UNLEASED	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, DEVISEES, OR ASSIGNS OF POLLY A. KIRKPATRICK, INCLUDING: JODI E. CARPENTER (1/32)	N	0.031250	0.025659	0.00002048	04-0000099.000B	NO	CADIZ	HARRISON	133 FAIRWAY CIR	NORWALK	ОН	44857
7	UNLEASED	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, DEVISEES, OR ASSIGNS OF POLLY A. KIRKPATRICK, INCLUDING: MICHELLE A. SMITH (1/32)	N	0.031250	0.025659	0.00002048	04-0000099.000B	NO	CADIZ	HARRISON	190 EUCLID AVE	WADSWORTH	ОН	44281
7	UNLEASED	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, DEVISEES, OR ASSIGNS OF POLLY A. KIRKPATRICK, INCLUDING: TRACY L. KONIK (1/32)	N	0.031250	0.025659	0.00002048	04-0000099.000B	NO	CADIZ	HARRISON	4 HIGH ST	NORWALK	ОН	44857
7	UNLEASED	DAVID L. MCKNIGHT AND CAROLYN D. MCKNIGHT, CO-TRUSTEES OF THE DAVID L. MCKNIGHT AND CAROLYN D. MCKNIGHT JOINT REVOCABLE TRUST DATED APRIL 11, 2013 (1/24)	N	0.041667	0.034212	0.00002731	04-0000099.000B	NO	CADIZ	HARRISON	5555 MAPLEGROVE AVE	LOUISVILLE	ОН	44641
7	UNLEASED	DENNIS A. JOHNSON AND KATHLEEN A. JOHNSON, CO-TRUSTEES OF THE JOHNSON FAMILY REVOCABLE LIVING TRUST DATED DECEMBER 29, 2009 (1/24)	N	0.041667	0.034212	0.00002731	04-0000099.000B	NO	CADIZ	HARRISON	5393 AULT AVE NE	LOUISVILLE	ОН	44641
7		DONALD M. KIRKPATRICK (1/24)	N	0.041666	0.034212	0.00002731	04-0000099.000B	NO	CADIZ	HARRISON	2049 ARABIAN TRL	ELIZABETH	CO	80107
7	UNLEASED	DOUGLAS MOORE KIRKPATRICK (3/32)	N	0.093750	0.076978	0.00006145	04-0000099.000B	NO	CADIZ	HARRISON	9354 BRIAR HILL RD	HERRON	MI	49744
11	UNLEASED	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, DEVISEES, OR ASSIGNS OF POLLY A. KIRKPATRICK, INCLUDING : KEVIN KIRKPATRICK (1/32)	N	0.031250	0.014374	0.00001147	04-0000103.001	NO	CADIZ	HARRISON	5151 LAKESIDE DR	MASON	ОН	45040
11	UNLEASED	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, DEVISEES, OR ASSIGNS OF POLLY A. KIRKPATRICK, INCLUDING: JODI E. CARPENTER (1/32)	N	0.031250	0.014374	0.00001147	04-0000103.001	NO	CADIZ	HARRISON	133 FAIRWAY CIR	NORWALK	ОН	44857
11	UNLEASED	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, DEVISEES, OR ASSIGNS OF POLLY A. KIRKPATRICK, INCLUDING: MICHELLE A. SMITH (1/32)	N	0.031250	0.014374	0.00001147	04-0000103.001	NO	CADIZ	HARRISON	190 EUCLID AVE	WADSWORTH	ОН	44281
11	UNLEASED	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, DEVISEES, OR ASSIGNS OF POLLY A. KIRKPATRICK, INCLUDING: TRACY L. KONIK (1/32)	N	0.031250	0.014374	0.00001147	04-0000103.001	NO	CADIZ	HARRISON	4 HIGH ST	NORWALK	ОН	44857
11	UNLEASED	DAVID L. MCKNIGHT AND CAROLYN D. MCKNIGHT, CO-TRUSTEES OF THE DAVID L. MCKNIGHT AND CAROLYN D. MCKNIGHT JOINT REVOCABLE TRUST DATED APRIL 11, 2013 (1/24)	Ν	0.041667	0.019165	0.00001530	04-0000103.001	NO	CADIZ	HARRISON	5555 MAPLEGROVE AVE	LOUISVILLE	ОН	44641
11		DENNIS A. JOHNSON AND KATHLEEN A. JOHNSON, CO-TRUSTEES OF THE JOHNSON FAMILY REVOCABLE LIVING TRUST DATED DECEMBER 29, 2009 (1/24)	N	0.041667	0.019165	0.00001530	04-0000103.001	NO	CADIZ	HARRISON	5393 AULT AVE NE	LOUISVILLE	ОН	44641
11		DONALD M. KIRKPATRICK (1/24)	N	0.041666	0.019165	0.00001530	04-0000103.001	NO	CADIZ	HARRISON	2049 ARABIAN TRL	ELIZABETH	CO	80107
11	UNLEASED	DOUGLAS MOORE KIRKPATRICK (1/8)	N	0.125000	0.057496	0.00004590	04-0000103.001	NO	CADIZ	HARRISON	9354 BRIAR HILL RD	HERRON	MI	49744
21	UNLEASED	STANLEY R. BITTINGER AND SHEILA K. BITTINGER (H/W, JT)	Ν	1.000000	21.194300	0.01691974	04-0000173.000B	NO	CADIZ	HARRISON	81331 HINES RD	CADIZ	OG	43907

27	UNLEASED	JAMES F. HINES	Ν	1.000000	10.795856	0.00861850	04-0000205.001	NO	CADIZ	HARRISON	38905 DEERSVILLE RIDGE	CADIZ	OH	43907
42	UNLEASED	DONNA MCMILLEN (1/4)	Ν	0.250000	0.823000	0.00065701	04-0000525.000	NO	CADIZ	HARRISON	37475 DEERSVILLE RIDGE	CADIZ	OH	43907
42	UNLEASED	GINGER HELD (1/4)	Ν	0.250000	0.823000	0.00065701	04-0000525.000	NO	CADIZ	HARRISON	644 KERR AVE	CADIZ	OH	43907
42	UNLEASED	BARBARA JAYNE HORNER (1/4)	Ν	0.250000	0.823000	0.00065701	04-0000525.000	NO	CADIZ	HARRISON	31800 YMCA RD 31811 YMCA RD	TIPPECANOE TIPPECANOE	OH OH	44699 44699
43	UNLEASED	DONNA MCMILLEN (1/4)	Ν	0.250000	0.646250	0.00051591	04-0000526.000	NO	CADIZ	HARRISON	37475 DEERSVILLE RIDGE	CADIZ	OH	43907
43	UNLEASED	GINGER HELD (1/4)	Ν	0.250000	0.646250	0.00051591	04-0000526.000	NO	CADIZ	HARRISON	644 KERR AVE	CADIZ	OH	43907
43	UNLEASED	BARBARA JAYNE HORNER (1/4)	Ν	0.250000	0.646250	0.00051591	04-0000526.000	NO	CADIZ	HARRISON	31800 YMCA RD	TIPPECANOE	OH	44699
											31811 YMCA RD	TIPPECANOE	OH	44699
44	UNLEASED	DONNA MCMILLEN (1/4)	Ν	0.250000	0.176500	0.00014090	04-0000527.000	NO	CADIZ	HARRISON	37475 DEERSVILLE RIDGE	CADIZ	OH	43907
44	UNLEASED	GINGER HELD (1/4)	Ν	0.250000	0.176500	0.00014090	04-0000527.000	NO	CADIZ	HARRISON	644 KERR AVE	CADIZ	OH	43907
44	UNLEASED	BARBARA JAYNE HORNER (1/4)	Ν	0.250000	0.176500	0.00014090	04-0000527.000	NO	CADIZ	HARRISON	31800 YMCA RD 31811 YMCA RD	TIPPECANOE TIPPECANOE	OH OH	44699 44699
47	UNLEASED	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, DEVISEES, OR ASSIGNS OF EDWIN R. FINICAL	Ν	0.100000	4.985108	0.00397969	04-0000550.000A	NO	CADIZ	HARRISON	C/O MAXINE FINICAL 2667 DEIBEL RD	CLINTON	OH	44216
47	UNLEASED	JOHN R. FINNICAL AND THE NORTHERN TRUST BANK OF FLORIDA, N.A., CO-TRUSTEES OF THE JOHN A. FINNICAL DECLARATION OF TRUST DATED JUNE 2. 1976, AS RESTATED MARCH 6, 1985; FIRST AMENDMENT DATED MAY 30, 1989; SECOND AMENDMENT DATED APRIL 5, 1993; THIRD	Ν	0.050000	2.492553	0.00198984	04-0000550.000A	NO	CADIZ	HARRISON	C/O JOHN R. FINNICAL, TRUSTEE 1170 KIAWAH LOOP C/O NORTHERN TRUST BANK OF FLORIDA, N.A.	MURRELLS INLET STUART	SC FL	29570 34996
19		AMENDMENT DATED OCTOBER 3, 1995 (GST EXEMPT TRUST A AND GST NON-EXEMPT TRUST A, AND GST EXEMPT TRUST B AND GST NON-EXEMPT TRUST B)	N		0.000000	0.000		110	C I D I		2201 S.E. KINGSWOOD TER			10510
47	UNLEASED	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, DEVISEES, OR ASSIGNS OF WILLIAM R. FINNICAL, INCLUDING THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, DEVISEES, OR ASSIGNS OF JOANNE ELIZABETH FINNICAL: ROBIN MOSER (1/3)	Ν	0.016667	0.830852	0.00066328	04-0000550.000A	NO	CADIZ	HARRISON	415 W MAIN ST	BARNESVILLE	ОН	43713
47	UNLEASED	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, DEVISEES, OR ASSIGNS OF WILLIAM R. FINNICAL, INCLUDING THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, DEVISEES, OR ASSIGNS OF JOANNE ELIZABETH FINNICAL: WILLIAM FINNICAL (1/3)	Ν	0.016666	0.830851	0.00066328	04-0000550.000A	NO	CADIZ	HARRISON	105 WINDERMERE DR	SAINT CLAIRSVILLE	ОН	43950
47	UNLEASED	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, DEVISEES, OR ASSIGNS OF WILLIAM R. FINNICAL, INCLUDING THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, DEVISEES, OR ASSIGNS OF JOANNE ELIZABETH FINNICAL: ALLAN FINNICAL (1/3)	Ν	0.016666	0.830851	0.00066328	04-0000550.000A	NO	CADIZ	HARRISON	8527 GROVELAND CT	NEW ALBANY	ОН	43054
47	UNLEASED	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, DEVISEES, OR ASSIGNS OF THOMAS NELSON FINICAL, SR. INCLUDING: IRVIN E, FINICAL (1/3)	N	0.033333	1.661703	0.00132656	04-0000550.000A	NO	CADIZ	HARRISON	2661 N BAHANA DR	TUCSON	AZ	85715
47	UNLEASED	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, DEVISEES, OR ASSIGNS OF THOMAS NELSON FINICAL, SR. INCLUDING THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, DEVISEES, OR ASSIGNS OF JAMES DOUGLAS FINICAL, DECEASED (1/3): DOUGLAS M. FINICAL (1/9)	N	0.011111	0.553901	0.00044219	04-0000550.000A	NO	CADIZ	HARRISON	2661 N BAHANA DR	TUCSON	AZ	85715
47	UNLEASED	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, DEVISEES, OR ASSIGNS OF THOMAS NELSON FINICAL, SR. INCLUDING THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS, DEVISEES, OR ASSIGNS OF JAMES DOUGLAS FINICAL, DECEASED (1/3): LESLIE M. JAUBERT (1/9)	Ν	0.011111	0.553900	0.00044219	04-0000550.000A	NO	CADIZ	HARRISON	253 DOYLE DR	SANTA ROSA	СА	95405

47	UNLEASED	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS,	N	0.011111	0.553900	0.00044219	04-0000550.000A	NO	CADIZ	HARRISON	26411 MARSALA WAY	MISSION VIEJO	CA	92692
		DEVISEES, OR ASSIGNS OF THOMAS NELSON												
		FINICAL, SR. INCLUDING THE KNOWN AND												
		UNKNOWN HEIRS, SUCCESSORS, DEVISEES, OR												
		ASSIGNS OF JAMES DOUGLAS FINICAL, DECEASED												
		(1/3):												
		T. CARSON FINICAL (1/9)												
47	UNLEASED	HELEN RAMSEY	N	0.050000	2.492554	0.00198984	04-0000550.000A	NO	CADIZ	HARRISON	1924 COUNTY RD 47	IRONDALE	OH	43932
					Total Unleased Acres: 53.168317	Total: 0.04244510								
					Total Unleased Acres:	Total: 0.07161313*								
					89.705292*	10tal: 0.0/101313*								
		*INCLUDES ACRES AND INTERESTS ATTRIBUTABLE			Total Unit Acres:									
		TO ANY PARTIALLY LEASED, PARTIALLY UNLEASED			1252.637414									
		TRACTS.												

Revised 1/8/2019

			All Comm	itted Working	Exhibit A Interest Own	-4 ers in the propos	ed Smith Unit.					
Tract Number	Committed Working Interest Owner	Address	City	State	Zip	Leased Yes or No	Decimal Interest in Tract	Surface Acres in Unit	Tract Participation in Unit	Tax Map Parcel ID	Township	County
1	CHESAPEAKE EXPLORATION LLC ATTN: ROBERT HIGHSAW	P.O. BOX 18496	OKLAHOMA CITY	OK	73154	Y	0.000600	0.000465	0.00000037	04-0000001.000	CADIZ	HARRISON
2	CHESAPEAKE EXPLORATION LLC ATTN: ROBERT HIGHSAW	P.O. BOX 18496	OKLAHOMA CITY	ОК	73154	Y	0.000600	0.003854	0.00000308	04-0000002.000	CADIZ	HARRISON
3	CHESAPEAKE EXPLORATION LLC ATTN: ROBERT HIGHSAW	P.O. BOX 18496	OKLAHOMA	ОК	73154	Y	0.000600	0.027550	0.00002199	04-0000016.000	CADIZ	HARRISON
5	CHESAPEAKE EXPLORATION LLC ATTN: ROBERT HIGHSAW	P.O. BOX 18496	OKLAHOMA CITY	ОК	73154	Y	0.007500	0.009849	0.00000786	04-0000096.000	CADIZ	HARRISON
6	CHESAPEAKE EXPLORATION LLC ATTN: ROBERT HIGHSAW	P.O. BOX 18496	OKLAHOMA CITY	ОК	73154	Y	0.000600	0.013695	0.00001093	04-0000099.000A	CADIZ	HARRISON
8	CHESAPEAKE EXPLORATION LLC ATTN: ROBERT HIGHSAW	P.O. BOX 18496	OKLAHOMA CITY	ОК	73154	Y	0.007500	0.002237	0.00000179	04-0000100.000	CADIZ	HARRISON
9	CHESAPEAKE EXPLORATION LLC ATTN: ROBERT HIGHSAW	P.O. BOX 18496	OKLAHOMA CITY	ОК	73154	Y	0.007500	0.009710	0.00000775	04-0000100.001	CADIZ	HARRISON
10	CHESAPEAKE EXPLORATION LLC ATTN: ROBERT HIGHSAW	P.O. BOX 18496	OKLAHOMA CITY	ОК	73154	Y	0.007500	0.000041	0.00000003	04-0000100.002	CADIZ	HARRISON
12	CHESAPEAKE EXPLORATION LLC ATTN: ROBERT HIGHSAW	P.O. BOX 18496	OKLAHOMA CITY	ОК	73154	Y	0.000600	0.009874	0.00000788	04-0000115.000	CADIZ	HARRISON
13	CHESAPEAKE EXPLORATION LLC ATTN: ROBERT HIGHSAW	P.O. BOX 18496	OKLAHOMA CITY	ОК	73154	Y	0.000600	0.004430	0.00000354	04-0000115.001	CADIZ	HARRISON
15	CHESAPEAKE EXPLORATION LLC ATTN: ROBERT HIGHSAW	P.O. BOX 18496	OKLAHOMA CITY	ОК	73154	Y	0.000600	0.004258	0.00000340	04-0000115.003	CADIZ	HARRISON
16	CHESAPEAKE EXPLORATION LLC ATTN: ROBERT HIGHSAW	P.O. BOX 18496	OKLAHOMA CITY	ОК	73154	Y	0.000600	0.002516	0.00000201	04-0000115.004	CADIZ	HARRISON
17	CHESAPEAKE EXPLORATION LLC ATTN: ROBERT HIGHSAW	P.O. BOX 18496	OKLAHOMA	ОК	73154	Y	0.000600	0.005529	0.00000441	04-0000152.000	CADIZ	HARRISON
17	CHESAPEAKE EXPLORATION LLC ATTN: ROBERT HIGHSAW	P.O. BOX 18496	OKLAHOMA CITY	ОК	73154	Y	0.000600	0.005529	0.00000441	04-0000152.000	CADIZ	HARRISON
17	CHESAPEAKE EXPLORATION LLC ATTN: ROBERT HIGHSAW	P.O. BOX 18496	OKLAHOMA CITY	ОК	73154	Y	0.000600	0.005529	0.00000441	04-0000152.000	CADIZ	HARRISON
17	CHESAPEAKE EXPLORATION LLC ATTN: ROBERT HIGHSAW	P.O. BOX 18496	OKLAHOMA CITY	ОК	73154	Y	0.000600	0.005529	0.00000441	04-0000152.000	CADIZ	HARRISON
17	CHESAPEAKE EXPLORATION LLC ATTN: ROBERT HIGHSAW	P.O. BOX 18496	OKLAHOMA CITY	ОК	73154	Y	0.000600	0.033173	0.00002648	04-0000152.000	CADIZ	HARRISON
18	CHESAPEAKE EXPLORATION LLC ATTN: ROBERT HIGHSAW	P.O. BOX 18496	OKLAHOMA CITY	ОК	73154	Y	0.000600	0.000931	0.00000074	04-0000152.001	CADIZ	HARRISON
19	CHESAPEAKE EXPLORATION LLC ATTN: ROBERT HIGHSAW	P.O. BOX 18496	OKLAHOMA CITY	ОК	73154	Y	0.007500	0.321793	0.00025689	04-0000153.000	CADIZ	HARRISON
22	CHESAPEAKE EXPLORATION LLC ATTN: ROBERT HIGHSAW	P.O. BOX 18496	OKLAHOMA CITY	ОК	73154	Y	0.007500	0.034486	0.00002753	04-0000182.000	CADIZ	HARRISON
25	CHESAPEAKE EXPLORATION LLC ATTN: ROBERT HIGHSAW	P.O. BOX 18496	OKLAHOMA CITY	OK	73154	Y	0.000600	0.002224	0.00000178	04-0000203.000	CADIZ	HARRISON
28	CHESAPEAKE EXPLORATION LLC ATTN: ROBERT HIGHSAW	P.O. BOX 18496	OKLAHOMA CITY	ОК	73154	Y	0.000600	0.044163	0.00003526	04-0000250.000	CADIZ	HARRISON
29	CHESAPEAKE EXPLORATION LLC ATTN: ROBERT HIGHSAW	P.O. BOX 18496	OKLAHOMA CITY	OK	73154	Y	0.000600	0.000700	0.00000056	04-0000250.001	CADIZ	HARRISON
30	CHESAPEAKE EXPLORATION LLC ATTN: ROBERT HIGHSAW	P.O. BOX 18496	OKLAHOMA CITY	ОК	73154	Y	0.000600	0.007023	0.00000561	04-0000252.000	CADIZ	HARRISON

33	CHESAPEAKE EXPLORATION LLC ATTN: ROBERT HIGHSAW	P.O. BOX 18496	OKLAHOMA CITY	OK	73154	Y	0.007500	0.574574	0.00045869	04-0000272.000	CADIZ	HARRISON
34	CHESAPEAKE EXPLORATION LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.007500	0.253153	0.00020210	04-0000273.000	CADIZ	HARRISON
54	ATTN: ROBERT HIGHSAW	P.O. BOX 18496	CITY	UK	/5154	I	0.007500	0.255155	0.00020210	04-0000273.000	CADIZ	HARRISON
35	CHESAPEAKE EXPLORATION LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.007500	0.236883	0.00018911	04-0000275.000	CADIZ	HARRISON
35	ATTN: ROBERT HIGHSAW	F.O. BOX 18490	CITY	0K	75154	1	0.007500	0.230883	0.00018911	04-0000275.000	CADIZ	TIAKKISON
36	CHESAPEAKE EXPLORATION LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.007500	0.092622	0.00007394	04-0000282.000	CADIZ	HARRISON
50	ATTN: ROBERT HIGHSAW	1.0. DOX 10490	CITY	OR	75154	1	0.007500	0.072022	0.00007574	04-0000202.000	CIUDIE	maabon
37	CHESAPEAKE EXPLORATION LLC	P.O. BOX 18496	OKLAHOMA	ОК	73154	Y	0.007500	0.521604	0.00041640	04-0000282.001	CADIZ	HARRISON
51	ATTN: ROBERT HIGHSAW	1.0. DOM 10100	CITY	on	75151	1	0.007500	0.521001	0.00011010	01 0000202.001	CIDIL	minuboli
38	CHESAPEAKE EXPLORATION LLC	P.O. BOX 18496	OKLAHOMA	ОК	73154	Y	0.000600	0.001072	0.0000086	04-0000295.000	CADIZ	HARRISON
50	ATTN: ROBERT HIGHSAW	1.0. Bon 10190	CITY	on	75151	1	0.000000	0.001072	0.00000000	01 0000255.000	CIDE	mildiboli
39	CHESAPEAKE EXPLORATION LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.000600	0.001080	0.0000086	04-0000353.000	CADIZ	HARRISON
57	ATTN: ROBERT HIGHSAW	1101201110100	CITY	011	10101	-	0.000000	0.001000	0100000000	01 00002221000	CIDIL	minubori
40	CHESAPEAKE EXPLORATION LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.007500	0.000338	0.00000027	04-0000353.001	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY			-						
41	CHESAPEAKE EXPLORATION LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.000600	0.001048	0.00000084	04-0000524.001	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
46	CHESAPEAKE EXPLORATION LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.000600	0.001871	0.00000149	04-0000531.000	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
48	CHESAPEAKE EXPLORATION LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.000600	0.009521	0.00000760	04-0000550.000B	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
48	CHESAPEAKE EXPLORATION LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.000600	0.009521	0.00000760	04-0000550.000B	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
48	CHESAPEAKE EXPLORATION LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.000600	0.009521	0.00000760	04-0000550.000B	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
48	CHESAPEAKE EXPLORATION LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.000600	0.009521	0.00000760	04-0000550.000B	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
49	CHESAPEAKE EXPLORATION LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.000600	0.000884	0.00000071	04-0000551.000	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
50	CHESAPEAKE EXPLORATION LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.007500	0.040174	0.00003207	04-0000581.001	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
50	CHESAPEAKE EXPLORATION LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.007500	0.040174	0.00003207	04-0000581.001	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
51	CHESAPEAKE EXPLORATION LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.000600	0.043857	0.00003501	04-0000588.000	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
52	CHESAPEAKE EXPLORATION LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.007500	0.020210	0.00001613	04-0000588.001	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
53	CHESAPEAKE EXPLORATION LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.000600	0.000426	0.00000034	04-0000603.000	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
54	CHESAPEAKE EXPLORATION LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.000600	0.000384	0.00000031	04-0000604.000	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW	D.O. DOV 10406	CITY	OK	70154	37	0.000,000	0.000222	0.00000010	04.0000505.000	CADIZ.	HADDIGON
55	CHESAPEAKE EXPLORATION LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.000600	0.000222	0.00000018	04-0000605.000	CADIZ	HARRISON
54	ATTN: ROBERT HIGHSAW	D.O. DOV 10404	CITY	OV	70154	37	0.000,000	0.000050	0.00000005	04.0000505.000	CADIZ	HADDIGON
56	CHESAPEAKE EXPLORATION LLC	P.O. BOX 18496	OKLAHOMA CITY	OK	73154	Y	0.000600	0.000058	0.00000005	04-0000606.000	CADIZ	HARRISON
57	ATTN: ROBERT HIGHSAW CHESAPEAKE EXPLORATION LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.007500	0.007793	0.00000622	04-0000625.001	CADIZ	HARRISON
57	ATTN: ROBERT HIGHSAW	P.U. BUA 18490	CITY	UK	/3134	I	0.007500	0.007795	0.00000622	04-000023.001	CADIZ	TAKKISUN
57	CHESAPEAKE EXPLORATION LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.007500	0.007793	0.00000622	04-0000625.001	CADIZ	HARRISON
57	ATTN: ROBERT HIGHSAW	F.U. DUA 18490	CITY	UK	/5154	I	0.007500	0.007795	0.00000022	04-000023.001	CADIZ	TAKKISUN
58	CHESAPEAKE EXPLORATION LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.000600	0.006996	0.00000559	04-0000633.001	CADIZ	HARRISON
50	ATTN: ROBERT HIGHSAW	r.U. DUA 10490	CITY	UK	/3134	1	0.00000	0.000990	0.00000339	04-0000055.001	CADIZ	TIAKKISUN
L	ATTN. NODEAT ΠΙΟΠΟΑΨ						1	1				L

59	CHESAPEAKE EXPLORATION LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.000600	0.032256	0.00002575	04-0000633.002	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
60	CHESAPEAKE EXPLORATION LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.000600	0.003328	0.00000266	04-0000633.003	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
61	CHESAPEAKE EXPLORATION LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.007500	0.006833	0.00000545	04-0000634.000	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
62	CHESAPEAKE EXPLORATION LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.000600	0.007390	0.00000590	04-0000646.000	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
63	CHESAPEAKE EXPLORATION LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.000600	0.000300	0.00000024	04-0000647.000	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
64	CHESAPEAKE EXPLORATION LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.000600	0.011608	0.00000927	22-0000051.000	NOTTINGHAM	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
65	CHESAPEAKE EXPLORATION LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.007500	0.495399	0.00039549	29-0000144.000	STOCK	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
66	CHESAPEAKE EXPLORATION LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.007500	0.205512	0.00016406	29-0000745.000	STOCK	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
67	CHESAPEAKE EXPLORATION LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.007500	0.015000	0.00001197	29-0000746.000	STOCK	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
1	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.005343	0.00000427	04-0000001.000	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
2	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.044316	0.00003538	04-000002.000	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
3	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.316826	0.00025293	04-0000016.000	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
6	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.157495	0.00012573	04-0000099.000A	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
12	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.113555	0.00009065	04-0000115.000	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
13	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.050943	0.00004067	04-0000115.001	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
15	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.048964	0.00003909	04-0000115.003	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
16	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.028938	0.00002310	04-0000115.004	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
17	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.063582	0.00005076	04-0000152.000	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
17	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.063582	0.00005076	04-0000152.000	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
17	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.063582	0.00005076	04-0000152.000	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
17	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.063582	0.00005076	04-0000152.000	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY					L				
17	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.381493	0.00030455	04-0000152.000	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
18	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.010707	0.00000855	04-0000152.001	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
25	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.025580	0.00002042	04-0000203.000	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
28	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.507870	0.00040544	04-0000250.000	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY	-		-						
29	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.008052	0.00000643	04-0000250.001	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									

30	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.080764	0.00006448	04-0000252.000	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
38	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.012323	0.00000984	04-0000295.000	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
39	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.012420	0.00000992	04-0000353.000	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
41	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.012049	0.00000962	04-0000524.001	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
46	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.021517	0.00001718	04-0000531.000	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
48	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.109493	0.00008741	04-0000550.000B	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
48	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.109493	0.00008741	04-0000550.000B	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
48	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.109493	0.00008741	04-0000550.000B	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
48	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.109493	0.00008741	04-0000550.000B	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
49	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.010164	0.00000811	04-0000551.000	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
51	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.504350	0.00040263	04-0000588.000	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
53	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.004899	0.00000391	04-0000603.000	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
54	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.004422	0.00000353	04-0000604.000	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
55	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.002550	0.00000204	04-0000605.000	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
56	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.000666	0.00000053	04-0000606.000	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
58	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.080455	0.00006423	04-0000633.001	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
59	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.370947	0.00029613	04-0000633.002	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
60	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.038267	0.00003055	04-0000633.003	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
62	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.084982	0.00006784	04-0000646.000	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
63	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.003450	0.00000275	04-0000647.000	CADIZ	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
64	CHK UTICA LLC	P.O. BOX 18496	OKLAHOMA	OK	73154	Y	0.006900	0.133487	0.00010656	22-0000051.000	NOTTINGHAM	HARRISON
	ATTN: ROBERT HIGHSAW		CITY									
1	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	0.193570	0.00015453	04-0000001.000	CADIZ	HARRISON
	ATTN: JEAN DERIDDER	1800										
2	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	1.605670	0.00128183	04-000002.000	CADIZ	HARRISON
	ATTN: JEAN DERIDDER	1800										
3	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	11.479209	0.00916403	04-0000016.000	CADIZ	HARRISON
	ATTN: JEAN DERIDDER	1800										
5	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	0.328310	0.00026210	04-0000096.000	CADIZ	HARRISON
	ATTN: JEAN DERIDDER	1800										
6	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	5.706350	0.00455547	04-0000099.000A	CADIZ	HARRISON
	ATTN: JEAN DERIDDER	1800										

8	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	0.074561	0.00005952	04-0000100.000	CADIZ	HARRISON
	ATTN: JEAN DERIDDER	1800										
9	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	0.323654	0.00025838	04-0000100.001	CADIZ	HARRISON
	ATTN: JEAN DERIDDER	1800										
10	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	0.001350	0.00000108	04-0000100.002	CADIZ	HARRISON
	ATTN: JEAN DERIDDER	1800										
12	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	4.114316	0.00328452	04-0000115.000	CADIZ	HARRISON
	ATTN: JEAN DERIDDER	1800										
13	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	1.845750	0.00147349	04-0000115.001	CADIZ	HARRISON
	ATTN: JEAN DERIDDER	1800										
15	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	1.774059	0.00141626	04-0000115.003	CADIZ	HARRISON
	ATTN: JEAN DERIDDER	1800										
16	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	1.048491	0.00083703	04-0000115.004	CADIZ	HARRISON
	ATTN: JEAN DERIDDER	1800										
17	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	2.303700	0.00183908	04-0000152.000	CADIZ	HARRISON
	ATTN: JEAN DERIDDER	1800										
17	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	2.303700	0.00183908	04-0000152.000	CADIZ	HARRISON
	ATTN: JEAN DERIDDER	1800										
17	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	2.303700	0.00183908	04-0000152.000	CADIZ	HARRISON
	ATTN: JEAN DERIDDER	1800										
17	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	2.303700	0.00183908	04-0000152.000	CADIZ	HARRISON
	ATTN: JEAN DERIDDER	1800										
17	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	13.822202	0.01103448	04-0000152.000	CADIZ	HARRISON
17	ATTN: JEAN DERIDDER	1800	noobron	121115	11002	•	0.200000	101022202	0.01100110	01 00001221000	CIIDIE	minubort
18	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	0.387951	0.00030971	04-0000152.001	CADIZ	HARRISON
10	ATTN: JEAN DERIDDER	1800	noobron	121115	11002	•	0.200000	0.007701	01000000771	01 00001021001	CIIDIE	minubort
19	TOTAL E&P USA. INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	10.726432	0.00856308	04-0000153.000	CADIZ	HARRISON
- /	ATTN: JEAN DERIDDER	1800				-						
22	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	1.149550	0.00091770	04-0000182.000	CADIZ	HARRISON
	ATTN: JEAN DERIDDER	1800	noobron	121115	11002	•	0.200000	111.00000	0.00071770	01 00001021000	CIIDIE	minubort
25	TOTAL E&P USA. INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	0.926820	0.00073990	04-0000203.000	CADIZ	HARRISON
25	ATTN: JEAN DERIDDER	1800	neesion	12/110	11002	1	0.250000	0.920020	0.00075770	01 0000205.000	CIE	mildiboli
28	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	18.401080	0.01468987	04-0000250.000	CADIZ	HARRISON
20	ATTN: JEAN DERIDDER	1800	1100001011	12.1.15	11002	•	0.200000	101101000	0.01.000007	01 000022010000	CIIDIE	minubori
29	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	0.291750	0.00023291	04-0000250.001	CADIZ	HARRISON
2)	ATTN: JEAN DERIDDER	1800	neesion	12/110	11002	1	0.250000	0.291750	0.00023291	01 0000250.001	CIE	mildiboli
30	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	2,926247	0.00233607	04-0000252.000	CADIZ	HARRISON
50	ATTN: JEAN DERIDDER	1800	neesion	12/110	11002	1	0.250000	2.920217	0.00255007	01 0000252.000	CIE	mildiboli
33	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	19.152466	0.01528971	04-0000272.000	CADIZ	HARRISON
55	ATTN: JEAN DERIDDER	1800	noosion	112/110	11002	1	0.250000	17.152400	0.01520771	04-0000272.000	CIDIL	maabon
34	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	8.438436	0.00673654	04-0000273.000	CADIZ	HARRISON
54	ATTN: JEAN DERIDDER	1201 LOUISIAIXA ST, SUITE	110051010	11277.15	11002	1	0.250000	0.+50+50	0.00075054	01-0000275.000	CIDIL	manison
35	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	7.896107	0.00630359	04-0000275.000	CADIZ	HARRISON
55	ATTN: JEAN DERIDDER	1201 E00151AIXA 51, 5011E 1800	110051011	11/1/10	,,,002		0.250000	,.0,0107	0.00030333	01 0000275.000	CIDIL	11111110001
36	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	3.087413	0.00246473	04-0000282.000	CADIZ	HARRISON
50	ATTN: JEAN DERIDDER	1201 LOUISIAIXA ST, SUITE	110051010	11277.15	11002	1	0.250000	5.007415	5.002-0-75	01-0000202.000	CIDIL	manison
37	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	17.386793	0.01388015	04-0000282.001	CADIZ	HARRISON
57	ATTN: JEAN DERIDDER	1201 LOUISIANA ST, SUITE 1800	11005100	ILAAS	11002	1	0.230000	17.300773	0.01500015	04-000202.001	CADIZ	TIANNOUN
38	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	0.446500	0.00035645	04-0000295.000	CADIZ	HARRISON
50	ATTN: JEAN DERIDDER	1201 LOUISIANA ST, SUITE 1800	11003101	IEAAS	11002	1	0.250000	0.440500	0.00055045	04-0000275.000	CADIZ	TIAKKISUN
39	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	0.450000	0.00035924	04-0000353.000	CADIZ	HARRISON
39	ATTN: JEAN DERIDDER	1201 LOUISIANA ST, SUITE 1800	HOUSION	IEAAS	11002	ĩ	0.250000	0.450000	0.00033924	04-000333.000	CADIZ	TIANKISUN
	ATTN, JEAN DEKIDDEK	1800								1		

40	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	0.011250	0.00000898	04-0000353.001	CADIZ	HARRISON
	ATTN: JEAN DERIDDER	1800										
41	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	0.436546	0.00034850	04-0000524.001	CADIZ	HARRISON
	ATTN: JEAN DERIDDER	1800										
46	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	0.779606	0.00062237	04-0000531.000	CADIZ	HARRISON
	ATTN: JEAN DERIDDER	1800										
48	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	3.967127	0.00316702	04-0000550.000B	CADIZ	HARRISON
	ATTN: JEAN DERIDDER	1800										
48	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	3.967127	0.00316702	04-0000550.000B	CADIZ	HARRISON
	ATTN: JEAN DERIDDER	1800										
48	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	3.967127	0.00316702	04-0000550.000B	CADIZ	HARRISON
	ATTN: JEAN DERIDDER	1800										
48	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	3.967127	0.00316702	04-0000550.000B	CADIZ	HARRISON
	ATTN: JEAN DERIDDER	1800				-						
49	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	0.368250	0.00029398	04-0000551.000	CADIZ	HARRISON
.,	ATTN: JEAN DERIDDER	1800	noeston	121115			01200000	0.000200	0.000220000	01 0000000110000	CIE	minubor
50	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	1.339131	0.00106905	04-0000581.001	CADIZ	HARRISON
20	ATTN: JEAN DERIDDER	1800	noeston	121115			01200000	11009101	0.00100000	01 00000011001	CIE	minubor
50	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	1.339131	0.00106905	04-0000581.001	CADIZ	HARRISON
50	ATTN: JEAN DERIDDER	1800	1100001011	121115			01200000	11009101	0.00100000	01 00000011001	CIE	minubor
51	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	18.273559	0.01458807	04-0000588.000	CADIZ	HARRISON
01	ATTN: JEAN DERIDDER	1800	noeston	121115			01200000	1012/00009	0.01.000007	01.00002001000	CIE	minubor
52	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	0.673668	0.00053780	04-0000588.001	CADIZ	HARRISON
	ATTN: JEAN DERIDDER	1800	noeston	121115			01200000	01072000	0.0000007000	01 00002001001	CIE	minubor
53	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	0.177497	0.00014170	04-0000603.000	CADIZ	HARRISON
55	ATTN: JEAN DERIDDER	1800	noeston	12/110	11002	1	0.250000	0.177157	0.00011170	01 0000005.000	CIER	mildiboli
54	TOTAL E&P USA. INC.	1201 LOUISIANA ST. SUITE	HOUSTON	TEXAS	77002	Y	0.250000	0.160207	0.00012790	04-0000604.000	CADIZ	HARRISON
51	ATTN: JEAN DERIDDER	1800	noeston	12/110	11002	1	0.250000	0.100207	0.00012790	01 000000 1.000	CIER	mildiboli
55	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	0.092399	0.00007376	04-0000605.000	CADIZ	HARRISON
55	ATTN: JEAN DERIDDER	1800	noeston	12/110	11002	1	0.250000	0.072377	0.00007570	01 0000005.000	CIER	mildiboli
56	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	0.024127	0.00001926	04-0000606.000	CADIZ	HARRISON
50	ATTN: JEAN DERIDDER	1800	noosion	112/110	11002	1	0.250000	0.024127	0.00001920	04-0000000.000	CINDIZ	manifold
57	TOTAL E&P USA. INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	0.259779	0.00020739	04-0000625.001	CADIZ	HARRISON
51	ATTN: JEAN DERIDDER	1201 EOUSIANA 51, SOITE 1800	110051010	ILAAS	77002	1	0.250000	0.237117	0.00020737	04-000023.001	CADIZ	HARRISON
57	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	0.259779	0.00020739	04-0000625.001	CADIZ	HARRISON
51	ATTN: JEAN DERIDDER	1800	110051010	ILAAS	77002	1	0.250000	0.237117	0.00020737	04-000023.001	CADIZ	HARRISON
58	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	2.915049	0.00232713	04-0000633.001	CADIZ	HARRISON
58	ATTN: JEAN DERIDDER	1201 EOUSIANA 51, SOITE 1800	noosion	ILAAS	77002	1	0.250000	2.915049	0.00252715	04-0000055.001	CADIZ	TIAKKISON
59	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	13.440124	0.01072946	04-0000633.002	CADIZ	HARRISON
39	ATTN: JEAN DERIDDER	1201 LOUISIANA 51, SUITE 1800	noosion	ILAAS	77002	1	0.230000	13.440124	0.01072940	04-0000055.002	CADIZ	TIAKKISON
60	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	1.386500	0.00110686	04-0000633.003	CADIZ	HARRISON
00	ATTN: JEAN DERIDDER	1800	noosion	ILAAS	77002	1	0.250000	1.580500	0.00110000	04-0000055.005	CADIZ	TIAKKISON
61	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	0.227750	0.00018182	04-0000634.000	CADIZ	HARRISON
01	ATTN: JEAN DERIDDER	1201 LOUISIANA 51, SUITE 1800	11005101	1LAAD	11002	1	0.230000	0.221150	0.00010102	0-00000-000	CINDIL	1111111000
62	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	3.079073	0.00245807	04-0000646.000	CADIZ	HARRISON
02	ATTN: JEAN DERIDDER	1201 LOUISIANA S1, SUITE 1800	11003101	ILAAS	11002	1	0.230000	5.077075	0.00243007	0+-00000+0.000	CADIL	HANNBUN
63	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	0.125000	0.00009979	04-0000647.000	CADIZ	HARRISON
05	ATTN: JEAN DERIDDER	1201 LOUISIANA S1, SUITE 1800	11003101	TEAAS	11002	1	0.230000	0.123000	0.00009979	04-0000047.000	CADIL	HANNISON
64	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	4.836481	0.00386104	22-0000051.000	NOTTINGHAM	HARRISON
04	ATTN: JEAN DERIDDER	1201 LOUISIANA S1, SUITE 1800	HOUSION	IEAAS	11002	ĩ	0.230000	4.030481	0.00380104	22-0000051.000	NOTTINGHAM	TAKKISUN
65	TOTAL E&P USA, INC.	1201 LOUISIANA ST, SUITE	HOUSTON	TEXAS	77002	Y	0.250000	16.513313	0.01318284	29-0000144.000	STOCK	HARRISON
00	ATTN: JEAN DERIDDER	1201 LOUISIANA S1, SUITE 1800	HOUSION	IEAAS	11002	ĩ	0.230000	10.313313	0.01318284	29-0000144.000	STUCK	TAKKISUN
	ATTIN. JEAN DEKIDDEK	1800										

66	TOTAL E&P USA, INC. ATTN: JEAN DERIDDER	1201 LOUISIANA ST, SUITE 1800	HOUSTON	TEXAS	77002	Y	0.250000	6.850387	0.00546877	29-0000745.000	STOCK	HARRISON
67	TOTAL E&P USA, INC. ATTN: JEAN DERIDDER	1201 LOUISIANA ST, SUITE 1800	HOUSTON	TEXAS	77002	Y	0.250000	0.500000	0.00039916	29-0000746.000	STOCK	HARRISON
1	EAP OHIO, LLC ATTN: CULLEN D. AMEND	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	0.742500	0.574901	0.00045895	04-0000001.000	CADIZ	HARRISON
2	EAP OHIO, LLC ATTN: CULLEN D. AMEND	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	0.742500	4.768841	0.00380704	04-0000002.000	CADIZ	HARRISON
3	EAP OHIO, LLC ATTN: CULLEN D. AMEND	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	0.742500	34.093251	0.02721717	04-0000016.000	CADIZ	HARRISON
4	EAP OHIO, LLC ATTN: CULLEN D. AMEND	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	1.000000	1.291000	0.00103063	04-0000016.001	CADIZ	HARRISON
5	EAP OHIO, LLC ATTN: CULLEN D. AMEND	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	0.742500	0.975081	0.00077842	04-0000096.000	CADIZ	HARRISON
6	EAP OHIO, LLC ATTN: CULLEN D. AMEND	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	0.742500	16.947859	0.01352974	04-0000099.000A	CADIZ	HARRISON
8	EAP OHIO, LLC ATTN: CULLEN D. AMEND	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	0.742500	0.221447	0.00017678	04-0000100.000	CADIZ	HARRISON
9	EAP OHIO, LLC ATTN: CULLEN D. AMEND	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	0.742500	0.961252	0.00076738	04-0000100.001	CADIZ	HARRISON
10	EAP OHIO, LLC ATTN: CULLEN D. AMEND	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	0.742500	0.004010	0.00000320	04-0000100.002	CADIZ	HARRISON
12	EAP OHIO, LLC ATTN: CULLEN D. AMEND	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	0.742500	12.219519	0.00975503	04-0000115.000	CADIZ	HARRISON
13	EAP OHIO, LLC ATTN: CULLEN D. AMEND	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	0.742500	5.481878	0.00437627	04-0000115.001	CADIZ	HARRISON
15	EAP OHIO, LLC ATTN: CULLEN D. AMEND	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	0.742500	5.268954	0.00420629	04-0000115.003	CADIZ	HARRISON
16	EAP OHIO, LLC ATTN: CULLEN D. AMEND	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	0.742500	3.114018	0.00248597	04-0000115.004	CADIZ	HARRISON
17	EAP OHIO, LLC ATTN: CULLEN D. AMEND	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	0.742500	6.841990	0.00546207	04-0000152.000	CADIZ	HARRISON
17	EAP OHIO, LLC ATTN: CULLEN D. AMEND	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	0.742500	6.841990	0.00546207	04-0000152.000	CADIZ	HARRISON
17	EAP OHIO, LLC ATTN: CULLEN D. AMEND	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	0.742500	6.841990	0.00546207	04-0000152.000	CADIZ	HARRISON
17	EAP OHIO, LLC ATTN: CULLEN D. AMEND	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	0.742500	6.841990	0.00546207	04-0000152.000	CADIZ	HARRISON
17	EAP OHIO, LLC ATTN: CULLEN D. AMEND	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	0.742500	41.051938	0.03277240	04-0000152.000	CADIZ	HARRISON
18	EAP OHIO, LLC ATTN: CULLEN D. AMEND	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	0.742500	1.152214	0.00091983	04-0000152.001	CADIZ	HARRISON
19	EAP OHIO, LLC ATTN: CULLEN D. AMEND	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	0.742500	31.857504	0.02543234	04-0000153.000	CADIZ	HARRISON
22	EAP OHIO, LLC ATTN: CULLEN D. AMEND	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	0.742500	3.414163	0.00272558	04-0000182.000	CADIZ	HARRISON
23	EAP OHIO, LLC ATTN: CULLEN D. AMEND	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	1.000000	17.739592	0.01416179	04-0000184.000	CADIZ	HARRISON
24	EAP OHIO, LLC ATTN: CULLEN D. AMEND	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	1.000000	28.079345	0.02241618	04-0000185.000	CADIZ	HARRISON
25	EAP OHIO, LLC ATTN: CULLEN D. AMEND	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	0.742500	2.752656	0.00219749	04-0000203.000	CADIZ	HARRISON

ATTN: CULLEN I 29 EAP OHIO, ATTN: CULLEN I 30 EAP OHIO, ATTN: CULLEN I 32 EAP OHIO, ATTN: CULLEN I 33 EAP OHIO, ATTN: CULLEN I 34 EAP OHIO, ATTN: CULLEN I 35 EAP OHIO, ATTN: CULLEN I 36 EAP OHIO, ATTN: CULLEN I 37 EAP OHIO, ATTN: CULLEN I 38 EAP OHIO, ATTN: CULLEN I 39 EAP OHIO, ATTN: CULLEN I 40 EAP OHIO, ATTN: CULLEN I 41 EAP OHIO, ATTN: CULLEN I 45 EAP OHIO, ATTN: CULLEN I 46 EAP OHIO, ATTN: CULLEN I 48 EAP OHIO, ATTN: CULLEN I 48 EAP OHIO, ATTN: CULLEN I	LLC 5847 SAN FELIPF D. AMEND 5847 SAN FELIPF	PE ST, SUITE 300 HOUST PE ST, SUITE 300 HOUST	TON TEXAS	77057 77057 77057 77057 77057 77057 77057 77057 77057 77057	Y Y Y Y Y Y Y Y Y	0.742500 0.742500 0.742500 1.000000 0.742500 0.742500 0.742500 0.742500 0.742500 0.742500 0.742500 0.742500 0.742500 0.742500 0.742500	0.866498 8.690954 0.00000000 56.882823 25.062156 23.451438 9.169617 51.638774	0.00069174 0.00693812 0.00000000 0.04541045 0.02000751 0.01872165 0.00732025 0.04122404	04-0000250.001 04-0000252.000 04-0000264.000 04-0000272.000 04-0000273.000 04-0000275.000 04-0000282.000 04-0000282.001	CADIZ CADIZ CADIZ CADIZ CADIZ CADIZ CADIZ	HARRISON HARRISON HARRISON HARRISON HARRISON HARRISON HARRISON
30 EAP OHIO, ATTN: CULLEN I 32 EAP OHIO, ATTN: CULLEN I 33 EAP OHIO, ATTN: CULLEN I 34 EAP OHIO, ATTN: CULLEN I 35 EAP OHIO, ATTN: CULLEN I 36 EAP OHIO, ATTN: CULLEN I 37 EAP OHIO, ATTN: CULLEN I 38 EAP OHIO, ATTN: CULLEN I 39 EAP OHIO, ATTN: CULLEN I 40 EAP OHIO, ATTN: CULLEN I 41 EAP OHIO, ATTN: CULLEN I 45 EAP OHIO, ATTN: CULLEN I 46 EAP OHIO, ATTN: CULLEN I 48 EAP OHIO, ATTN: CULLEN I	LLC 5847 SAN FELIPE D. AMEND 5847 SAN FELIPE	PE ST, SUITE 300 HOUST PE ST, SUITE 300 HOUST	TON TEXAS	77057 77057 77057 77057 77057 77057 77057 77057	Y Y Y Y Y Y Y	1.000000 0.742500 0.742500 0.742500 0.742500 0.742500 0.742500 0.742500 0.742500	0.0000000 56.882823 25.062156 23.451438 9.169617	0.00000000 0.04541045 0.02000751 0.01872165 0.00732025	04-0000264.000 04-0000272.000 04-0000273.000 04-0000275.000 04-0000282.000	CADIZ CADIZ CADIZ CADIZ CADIZ	HARRISON HARRISON HARRISON HARRISON HARRISON
32 EAP OHIO, ATTN: CULLEN I 33 EAP OHIO, ATTN: CULLEN I 34 EAP OHIO, ATTN: CULLEN I 35 EAP OHIO, ATTN: CULLEN I 36 EAP OHIO, ATTN: CULLEN I 37 EAP OHIO, ATTN: CULLEN I 38 EAP OHIO, ATTN: CULLEN I 39 EAP OHIO, ATTN: CULLEN I 40 EAP OHIO, ATTN: CULLEN I 41 EAP OHIO, ATTN: CULLEN I 45 EAP OHIO, ATTN: CULLEN I 46 EAP OHIO, ATTN: CULLEN I 48 EAP OHIO, 440 EAP OHIO,	LLC 5847 SAN FELIPE D. AMEND 5847 SAN FELIPE	PE ST, SUITE 300 HOUST PE ST, SUITE 300 HOUST	TON TEXAS TON TEXAS TON TEXAS TON TEXAS TON TEXAS	77057 77057 77057 77057 77057 77057 77057	Y Y Y Y Y Y	0.742500 0.742500 0.742500 0.742500 0.742500 0.742500	56.882823 25.062156 23.451438 9.169617	0.04541045 0.02000751 0.01872165 0.00732025	04-0000272.000 04-0000273.000 04-0000275.000 04-0000282.000	CADIZ CADIZ CADIZ CADIZ	HARRISON HARRISON HARRISON HARRISON
33 EAP OHIO, ATTN: CULLEN I 34 EAP OHIO, ATTN: CULLEN I 35 EAP OHIO, ATTN: CULLEN I 36 EAP OHIO, ATTN: CULLEN I 37 EAP OHIO, ATTN: CULLEN I 38 EAP OHIO, ATTN: CULLEN I 39 EAP OHIO, ATTN: CULLEN I 40 EAP OHIO, ATTN: CULLEN I 41 EAP OHIO, ATTN: CULLEN I 45 EAP OHIO, ATTN: CULLEN I 46 EAP OHIO, ATTN: CULLEN I 48 EAP OHIO, ATTN: CULLEN I	LLC 5847 SAN FELIPE D. AMEND 1LC 5847 SAN FELIPE D. AMEND 5847 SAN FELIPE D. AMEND 5847 SAN FELIPE D. AMEND 5847 SAN FELIPE D. AMEND 5847 SAN FELIPE	PE ST, SUITE 300 HOUST PE ST, SUITE 300 HOUST	TON TEXAS	77057 77057 77057 77057 77057 77057 77057	Y Y Y Y Y	0.742500 0.742500 0.742500 0.742500 0.742500	25.062156 23.451438 9.169617	0.02000751 0.01872165 0.00732025	04-0000273.000 04-0000275.000 04-0000282.000	CADIZ CADIZ CADIZ	HARRISON HARRISON HARRISON
ATTN: CULLEN I 34 EAP OHIO, ATTN: CULLEN I ATTN: CULLEN I 35 EAP OHIO, ATTN: CULLEN I ATTN: CULLEN I 36 EAP OHIO, ATTN: CULLEN I ATTN: CULLEN I 37 EAP OHIO, ATTN: CULLEN I ATTN: CULLEN I 38 EAP OHIO, ATTN: CULLEN I ATTN: CULLEN I 39 EAP OHIO, 40 EAP OHIO, ATTN: CULLEN I ATTN: CULLEN I 41 EAP OHIO, 45 EAP OHIO, ATTN: CULLEN I ATTN: CULLEN I 45 EAP OHIO, 44 EAP OHIO, 47 EAP OHIO, 48 EAP OHIO, 48 <td>D. AMEND LLC 5847 SAN FELIPE D. AMEND 5847 SAN FELIPE LLC 5847 SAN FELIPE D. AMEND 5847 SAN FELIPE LLC 5847 SAN FELIPE D. AMEND 5847 SAN FELIPE</td> <td>PE ST, SUITE 300 HOUST PE ST, SUITE 300 HOUST</td> <td>TON TEXAS</td> <td>77057 77057 77057 77057 77057 77057 77057</td> <td>Y Y Y Y Y</td> <td>0.742500 0.742500 0.742500 0.742500 0.742500</td> <td>25.062156 23.451438 9.169617</td> <td>0.02000751 0.01872165 0.00732025</td> <td>04-0000273.000 04-0000275.000 04-0000282.000</td> <td>CADIZ CADIZ CADIZ</td> <td>HARRISON HARRISON HARRISON</td>	D. AMEND LLC 5847 SAN FELIPE D. AMEND 5847 SAN FELIPE LLC 5847 SAN FELIPE D. AMEND 5847 SAN FELIPE LLC 5847 SAN FELIPE D. AMEND 5847 SAN FELIPE	PE ST, SUITE 300 HOUST PE ST, SUITE 300 HOUST	TON TEXAS	77057 77057 77057 77057 77057 77057 77057	Y Y Y Y Y	0.742500 0.742500 0.742500 0.742500 0.742500	25.062156 23.451438 9.169617	0.02000751 0.01872165 0.00732025	04-0000273.000 04-0000275.000 04-0000282.000	CADIZ CADIZ CADIZ	HARRISON HARRISON HARRISON
ATTN: CULLEN I35EAP OHIO, ATTN: CULLEN I36EAP OHIO, ATTN: CULLEN I37EAP OHIO, ATTN: CULLEN I38EAP OHIO, ATTN: CULLEN I39EAP OHIO, ATTN: CULLEN I40EAP OHIO, ATTN: CULLEN I41EAP OHIO, ATTN: CULLEN I45EAP OHIO, ATTN: CULLEN I46EAP OHIO, ATTN: CULLEN I48EAP OHIO, ATTN: CULLEN I	D. AMEND LLC 5847 SAN FELIPE D. AMEND LLC 5847 SAN FELIPE	PE ST, SUITE 300 HOUST PE ST, SUITE 300 HOUST PE ST, SUITE 300 HOUST PE ST, SUITE 300 HOUST PE ST, SUITE 300 HOUST	TON TEXAS	77057 77057 77057 77057 77057	Y Y Y Y	0.742500 0.742500 0.742500	23.451438 9.169617	0.01872165	04-0000275.000 04-0000282.000	CADIZ CADIZ	HARRISON
ATTN: CULLEN I 36 EAP OHIO, ATTN: CULLEN I 37 EAP OHIO, ATTN: CULLEN I 38 EAP OHIO, ATTN: CULLEN I 39 EAP OHIO, ATTN: CULLEN I 40 EAP OHIO, ATTN: CULLEN I 41 EAP OHIO, ATTN: CULLEN I 45 EAP OHIO, ATTN: CULLEN I 46 EAP OHIO, ATTN: CULLEN I 48 EAP OHIO, ATTN: CULLEN I	D. AMEND LLC 5847 SAN FELIPE D. AMEND LLC 5847 SAN FELIPE D. AMEND LLC 5847 SAN FELIPE D. AMEND LLC 5847 SAN FELIPE D. AMEND LLC 5847 SAN FELIPE	PE ST, SUITE 300 HOUST PE ST, SUITE 300 HOUST PE ST, SUITE 300 HOUST PE ST, SUITE 300 HOUST	TON TEXAS	77057	Y	0.742500	9.169617	0.00732025	04-0000282.000	CADIZ	HARRISON
ATTN: CULLEN I37EAP OHIO, ATTN: CULLEN I38EAP OHIO, ATTN: CULLEN I39EAP OHIO, ATTN: CULLEN I40EAP OHIO, ATTN: CULLEN I41EAP OHIO, ATTN: CULLEN I45EAP OHIO, ATTN: CULLEN I46EAP OHIO, ATTN: CULLEN I48EAP OHIO, ATTN: CULLEN I	D. AMEND LLC 5847 SAN FELIPE D. AMEND LLC 5847 SAN FELIPE D. AMEND LLC 5847 SAN FELIPE D. AMEND LLC 5847 SAN FELIPE	PE ST, SUITE 300 HOUST PE ST, SUITE 300 HOUST PE ST, SUITE 300 HOUST	TON TEXAS	77057	Y	0.742500					
ATTN: CULLEN I38EAP OHIO,ATTN: CULLEN I39EAP OHIO,ATTN: CULLEN I40EAP OHIO,ATTN: CULLEN I41EAP OHIO,ATTN: CULLEN I45EAP OHIO,ATTN: CULLEN I46EAP OHIO,ATTN: CULLEN I48EAP OHIO,	D. AMEND LLC 5847 SAN FELIPE D. AMEND LLC 5847 SAN FELIPE D. AMEND LLC 5847 SAN FELIPE	PE ST, SUITE 300 HOUST PE ST, SUITE 300 HOUST	CON TEXAS	77057	_		51.638774	0.04122404	04-0000282.001	CADIZ	HARRISON
ATTN: CULLEN I39EAP OHIO,ATTN: CULLEN I40EAP OHIO,ATTN: CULLEN I41EAP OHIO,45EAP OHIO,ATTN: CULLEN I46EAP OHIO,ATTN: CULLEN I48EAP OHIO,48EAP OHIO,	D. AMEND LLC 5847 SAN FELIPE D. AMEND LLC 5847 SAN FELIPE	PE ST, SUITE 300 HOUST			Y	0.742500					1
ATTN: CULLEN I 40 EAP OHIO, ATTN: CULLEN I 41 EAP OHIO, ATTN: CULLEN I 45 EAP OHIO, 46 EAP OHIO, ATTN: CULLEN I 46 EAP OHIO, ATTN: CULLEN I 48 EAP OHIO,	D. AMEND LLC 5847 SAN FELIPE	,	TEXAS	77057		0.742300	1.326105	0.00105865	04-0000295.000	CADIZ	HARRISON
40 EAP OHIO, ATTN: CULLEN I 41 EAP OHIO, ATTN: CULLEN I 45 EAP OHIO, ATTN: CULLEN I 46 EAP OHIO, ATTN: CULLEN I 48 EAP OHIO, ATTN: CULLEN I	LLC 5847 SAN FELIPE	'E ST, SUITE 300 HOUST		77057	Y	0.742500	1.336500	0.00106695	04-0000353.000	CADIZ	HARRISON
41 EAP OHIO, ATTN: CULLEN I 45 EAP OHIO, ATTN: CULLEN I 46 EAP OHIO, ATTN: CULLEN I 48 EAP OHIO,			TEXAS	77057	Y	0.742500	0.033413	0.00002667	04-0000353.001	CADIZ	HARRISON
45 EAP OHIO, ATTN: CULLEN I 46 EAP OHIO, ATTN: CULLEN I 48 EAP OHIO,	LLC 5847 SAN FELIPE	PE ST, SUITE 300 HOUST	TON TEXAS	77057	Y	0.742500	1.296540	0.00103505	04-0000524.001	CADIZ	HARRISON
46 EAP OHIO, ATTN: CULLEN I 48 EAP OHIO,		PE ST, SUITE 300 HOUST	TON TEXAS	77057	Y	1.000000	5.247530	0.00418919	04-0000530.001	CADIZ	HARRISON
48 EAP OHIO, ATTN: CULLEN I 48 EAP OHIO,		PE ST, SUITE 300 HOUST	TEXAS	77057	Y	0.742500	2.315429	0.00184844	04-0000531.000	CADIZ	HARRISON
48 EAP OHIO, ATTN: CULLEN I 48 EAP OHIO, ATTN: CULLEN I 48 EAP OHIO,	LLC 5847 SAN FELIPE	PE ST, SUITE 300 HOUST	TON TEXAS	77057	Y	0.742500	11.782367	0.00940605	04-0000550.000B	CADIZ	HARRISON
48 EAP OHIO, ATTN: CULLEN I 48 EAP OHIO,	LLC 5847 SAN FELIPE	PE ST, SUITE 300 HOUST	TON TEXAS	77057	Y	0.742500	11.782367	0.00940605	04-0000550.000B	CADIZ	HARRISON
48 EAP OHIO,	LLC 5847 SAN FELIPE	PE ST, SUITE 300 HOUST	TEXAS	77057	Y	0.742500	11.782367	0.00940605	04-0000550.000B	CADIZ	HARRISON
ATTN: CULLEN I	LLC 5847 SAN FELIPE	PE ST, SUITE 300 HOUST	TON TEXAS	77057	Y	0.742500	11.782367	0.00940605	04-0000550.000B	CADIZ	HARRISON
49 EAP OHIO, ATTN: CULLEN I	LLC 5847 SAN FELIPE	PE ST, SUITE 300 HOUST	TON TEXAS	77057	Y	0.742500	1.093703	0.00087312	04-0000551.000	CADIZ	HARRISON
50 EAP OHIO, ATTN: CULLEN I	LLC 5847 SAN FELIPE	PE ST, SUITE 300 HOUST	TEXAS	77057	Y	0.742500	3.977220	0.00317508	04-0000581.001	CADIZ	HARRISON
50 EAP OHIO, ATTN: CULLEN I	LLC 5847 SAN FELIPE	PE ST, SUITE 300 HOUST	TEXAS	77057	Y	0.742500	3.977220	0.00317508	04-0000581.001	CADIZ	HARRISON
51 EAP OHIO, ATTN: CULLEN I	LLC 5847 SAN FELIPE	PE ST, SUITE 300 HOUST	TEXAS	77057	Y	0.742500	54.272469	0.04332656	04-0000588.000	CADIZ	HARRISON
52 EAP OHIO, ATTN: CULLEN I		PE ST, SUITE 300 HOUST	TON TEXAS	77057	Y	0.742500	2.000792	0.00159726	04-0000588.001	CADIZ	HARRISON
53 EAP OHIO, ATTN: CULLEN I		PE ST, SUITE 300 HOUST	TON TEXAS	77057	Y	0.742500	0.527165	0.00042084	04-0000603.000	CADIZ	HARRISON
54 EAP OHIO, ATTN: CULLEN I	D. AMEND LLC 5847 SAN FELIPE	PE ST. SUITE 300 HOUST	TEXAS	77057	Y	0.742500	0.475815	0.00037985	04-0000604.000	CADIZ	HARRISON

55	EAP OHIO, LLC	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	0.742500	0.274424	0.00021908	04-0000605.000	CADIZ	HARRISON
	ATTN: CULLEN D. AMEND											
56	EAP OHIO, LLC	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	0.742500	0.071658	0.00005721	04-0000606.000	CADIZ	HARRISON
	ATTN: CULLEN D. AMEND											
57	EAP OHIO, LLC	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	0.742500	0.771544	0.00061594	04-0000625.001	CADIZ	HARRISON
	ATTN: CULLEN D. AMEND											
57	EAP OHIO, LLC	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	0.742500	0.771544	0.00061594	04-0000625.001	CADIZ	HARRISON
	ATTN: CULLEN D. AMEND											
58	EAP OHIO, LLC	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	0.742500	8.657695	0.00691157	04-0000633.001	CADIZ	HARRISON
	ATTN: CULLEN D. AMEND											
59	EAP OHIO, LLC	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	0.742500	39.917169	0.03186650	04-0000633.002	CADIZ	HARRISON
	ATTN: CULLEN D. AMEND											
60	EAP OHIO, LLC	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	0.742500	4.117905	0.00328739	04-0000633.003	CADIZ	HARRISON
	ATTN: CULLEN D. AMEND											
61	EAP OHIO, LLC	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	0.742500	0.676418	0.00053999	04-0000634.000	CADIZ	HARRISON
	ATTN: CULLEN D. AMEND											
62	EAP OHIO, LLC	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	0.742500	9.144847	0.00730047	04-0000646.000	CADIZ	HARRISON
	ATTN: CULLEN D. AMEND											
63	EAP OHIO, LLC	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	0.742500	0.371250	0.00029637	04-0000647.000	CADIZ	HARRISON
	ATTN: CULLEN D. AMEND											
64	EAP OHIO, LLC	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	0.742500	14.364347	0.01146728	22-0000051.000	NOTTINGHAM	HARRISON
	ATTN: CULLEN D. AMEND											
65	EAP OHIO, LLC	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	0.742500	49.044540	0.03915302	29-0000144.000	STOCK	HARRISON
	ATTN: CULLEN D. AMEND											
66	EAP OHIO, LLC	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	0.742500	20.345649	0.01624225	29-0000745.000	STOCK	HARRISON
	ATTN: CULLEN D. AMEND											
67	EAP OHIO, LLC	5847 SAN FELIPE ST, SUITE 300	HOUSTON	TEXAS	77057	Y	0.742500	1.485000	0.00118550	29-0000746.000	STOCK	HARRISON
	ATTN: CULLEN D. AMEND											
								Total	Total: 0.78626524			

* INCLUDES	LEASED	ACRES	AND
INTERESTS A	TTRIBUTA	BLE TO	ANY
PARTIALLY	LEASED,	PARTI	ALLY
UNLEASED TR	ACTS.		

TotalTotal: 0.78626524CommittedAcres:984.905261984.905261TotalTotal: 0.81543328*CommittedAcres:1,021.442236*Total UnitAcres:1252.637414

Revised 1/8/2019

			All Unco	E mmitted Working Inte	Exhibit A-5 rest Owners i	n the proposed	Smith Unit.					
Tract Number	Uncommitted Working Interest Owner	Address	City	State	Zip	Leased Yes or No	Decimal Interest in Tract	Surface Acres in Unit	Tract Participation in	Tax Map Parcel ID	Township	County
14	ECLIPSE RESOURCES - OHIO, LLC ATTN: MARTY L. BYRD	2121 OLD GATESBURG ROAD, SUITE 110	STATE COLLEGE	PENNSYLVANIA	16803	Y	1.000000	44.441749	0.03547854	04-0000115.002	CADIZ	HARRISON
20	DORIS J. KIMBLE	3596 STATE ROUTE 39 NW	DOVER	OHIO	44622	Y	1.000000	37.878142	0.03023871	04-0000173.000A	CADIZ	HARRISON
26	ECLIPSE RESOURCES - OHIO, LLC ATTN: MARTY L. BYRD	2121 OLD GATESBURG ROAD, SUITE 110	STATE COLLEGE	PENNSYLVANIA	16803	Y	0.375000	20.104161	0.01604947	04-0000205.000	CADIZ	HARRISON
26	ECLIPSE RESOURCES - OHIO, LLC ATTN: MARTY L. BYRD	2121 OLD GATESBURG ROAD, SUITE 110	STATE COLLEGE	PENNSYLVANIA	16803	Y	0.375000	20.104161	0.01604947	04-0000205.000	CADIZ	HARRISON
26	ECLIPSE RESOURCES - OHIO, LLC ATTN: MARTY L. BYRD	2121 OLD GATESBURG ROAD, SUITE 110	STATE COLLEGE	PENNSYLVANIA	16803	Y	0.250000	13.402774	0.01069964	04-0000205.000	CADIZ	HARRISON
31	ECLIPSE RESOURCES - OHIO, LLC ATTN: MARTY L. BYRD	2121 OLD GATESBURG ROAD, SUITE 110	STATE COLLEGE	PENNSYLVANIA	16803	Y	1.000000	4.343853	0.00346777	04-0000252.002	CADIZ	HARRISON
32	ECLIPSE RESOURCES - OHIO, LLC ATTN: MARTY L. BYRD	2121 OLD GATESBURG ROAD, SUITE 110	STATE COLLEGE	PENNSYLVANIA	16803	Y	1.000000	37.752021	0.03013803	04-0000264.000	CADIZ	HARRISON

1252.637414

	Exhibit A-6 All parcels subject to pending ownership litigation in the proposed Smith Unit.											
Tract Number	Ownership Dispute Parties	Address	City	State	Zip	Leased Yes or No	Decimal Interest in Tract	Surface Acres in Unit	Tract Participation in Unit	Tax Map Parcel ID	Township	County
	NO APPARENT OWNERSHIP LITIGATION IN THE SMITH UNIT						Tract		Omt			

Total Acres pending Total: 0.00000000 ownership

litigation: 0.00000000

Total Unit Acres: 1252.637414 04/10 - OH

PAID-UP OIL & GAS LEASE Lease No. __

This Lease made this ______ day of ______, 20____, by and between:

hereinafter collectively called "Lessor," and **CHESAPEAKE EXPLORATION, L.L.C.**, an Oklahoma limited liability company, 6100 N. Western Avenue, Oklahoma City, Oklahoma 73118, hereinafter called "Lessee."

WITNESSETH, that for and in consideration of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and of the mutual covenants and agreements hereinafter set forth, the Lessor and Lessee agree as follows:

LEASING CLAUSE. Lessor hard bease agree as follows. LEASING CLAUSE. Lessor hereby leases exclusively to Lessee all the oil and gas (including, but not limited to coal seam gas, coalbed methane gas, coalbed gas, methane gas, gob gas, occluded methane/natural gas and all associated natural gas and other hydrocarbons and non-hydrocarbons contained in, associated with, emitting from, or produced/originating within any formation, gob area, mined-out area, coal seam, and all communicating zones), and their liquid or gaseous constituents, whether hydrocarbon or non-hydrocarbon, underlying the land herein leased, together with such exclusive rights as may be necessary or convenient for Lessee, at its election, to explore for, develop, produce, measure, and market production from the Leasehold, and from adjoining lands, using methods and techniques which are not restricted to current technology, including the right to conduct geophysical and other exploratory tests; to drill, maintain, operate, cease to operate, plug, abandon, and remove wells; to use or install roads, electric power and telephone facilities for use in the production and transportation of products from the Leasehold or from neighboring lands across the Leasehold, to use oil, gas, and non-domestic water sources, free of cost, to store gas of any kind underground, regardless of the source thereof, including the injecting of gas therein and removing the same therefrom; to protect stored gas; to operate, maintain, repair, and remove material and equipment; to use and occupy the subsurface for a wellbore or wellbores to drill across, through and under the Leasehold.

DESCRIPTION. The Leasehold is located in the Township of _

in the County of ______, in the State of Ohio, and described as follows:

Township: , Range: Section : Tax Parcel No.:	, Containing	_acres
and is bounded formerly or currently as follows:		
On the North by lands of		;
On the East by lands of		;
On the South by lands of		;
On the West by lands of		;

including lands acquired from ______, by virtue of deed dated ______, and recorded in ______, and recorded in ______, at Page ______, and described for the purposes of this agreement as containing a total of _______ Leasehold acres, whether actually more or less, and including contiguous lands owned by Lessor. This Lease also covers and includes, in addition to that above described, all land, if any, contiguous or adjacent to or adjoining the land above described and (a) owned or claimed by Lessor, by limitation, prescription, possession, reversion or unrecorded instrument or (b) as to which Lessor has a preference right of acquisition. Lessor agrees to execute any supplemental instrument requested by Lessee for a more complete or accurate description of said land.

LEASE TERM. This Lease shall remain in force for a primary term of **five** (5) years from 12:00 A.M. (effective date) to 11:59 P.M._____ (last day of

primary term) and shall continue beyond the primary term as to the entirety of the Leasehold if any of the following is satisfied: (i) operations are conducted on the Leasehold or lands pooled/unitized therewith in search of oil, gas, or their constituents, or (ii) a well deemed by Lessee to be capable of production is located on the Leasehold or lands pooled/unitized therewith, or (iii) oil or gas, or their constituents, are produced from the Leasehold or lands pooled/unitized therewith, or (iv) if the Leasehold or lands pooled/unitized therewith is used for the underground storage of gas, or for the protection of stored gas, or (v) if prescribed payments are made, or (vi) if Lessee's operations are delayed, postponed or interrupted as a result of any coal, stone or other mining or mining related operation under any existing and effective lease, permit or authorization covering such operations on the leased premises or on other lands affecting the leased premises, such delay will automatically extend the primary or secondary term of this oil and gas lease without additional compensation or performance by Lessee for a period of time equal to any such delay, postponement or interruption. If there is any dispute concerning the extension of this Lease beyond the primary term by reason of any of the alternative mechanisms specified herein, the payment to the Lessor of the prescribed payments provided below shall be conclusive evidence that the Lease has been extended beyond the primary term.

EXTENSION OF PRIMARY TERM. Lessee has the option to extend the primary term of this Lease for one additional term of five (5) years from the expiration of the primary term of this Lease; said extension to be under the same terms and conditions as contained in this Lease. Lessee may exercise this option to extend this Lease if on or before the expiration date of the primary term of this Lease, Lessee pays or tenders to the Lessor or to the Lessor's credit an amount equal to the initial consideration given for the execution hereof. Exercise of this option is at Lessee's sole discretion and may be invoked by Lessee where no other alternative of the Lease Term clause extends this Lease beyond the primary term.

NO AUTOMATIC TERMINATION OR FORFEITURE.

(A) CONSTRUCTION OF LEASE: The language of this Lease (including, but not limited to, the Lease Term and Extension of Term clauses) shall never be read as language of special limitation. This Lease shall be construed against termination, forfeiture, cancellation or expiration and in favor of giving effect to the continuation of this Lease where the circumstances exist to maintain this Lease in effect under any of the alternative mechanisms set forth above. In connection therewith, (i) a well shall be deemed to be capable of production if it has the capacity to produce a profit over operating costs, without regard to any capital costs to drill or equip the well, or to deliver the oil or gas to market, and (ii) the Lessee shall be deemed to be conducting operations in search of oil or gas, or their constituents, if the Lessee is engaged in geophysical and other exploratory work including, but not limited to, activities to drill an initial well, to drill a new well, or to rework, stimulate, deepen, sidetrack, frac, plug back in the same or different formation or repair a well or equipment on the Leasehold or any lands pooled/unitized therewith (such activities shall include, but not be limited to, performing any preliminary or preparatory work necessary for drilling, conducting internal technical analysis to initiate and/or further develop a well, obtaining permits and approvals associated therewith and may include reasonable gaps in activities provided that there is a continuum of activities showing a good faith effort to develop a well or that the cessation or interruption of activities was beyond the control of Lessee, including interruptions caused by the acts of third parties over whom Lessee has no control or regulatory delays associated with any approval process required for conducting such activities).

(B) LIMITATION OF FORFEITURE: This Lease shall never be subject to a civil action or proceeding to enforce a claim of termination, cancellation, expiration or forfeiture due to any action or inaction by the Lessee, including, but not limited to making any prescribed payments authorized under the terms of this Lease, unless the Lessee has received written notice of Lessor's demand and thereafter fails or refuses to satisfy or provide justification responding to Lessor's demand within 60 days from the receipt of such notice. If Lessee timely responds to Lessor's demand, but in good faith disagrees with Lessor's position and sets forth the reasons therefore, such a response shall be deemed to satisfy this provision, this Lease shall continue in full force and effect and no further damages (or other claims for relief) will accrue in Lessor's favor during the pendency of the dispute, other than claims for payments that may be due under the terms of this Lease.

<u>PAYMENTS TO LESSOR.</u> In addition to the bonus paid by Lessee for the execution hereof, Lessee covenants to pay Lessor, proportionate to Lessor's percentage of ownership, as follows:

(A) DELAY RENTAL: To pay Lessor as Delay Rental, after the first year, at the rate of <u>five dollars</u> (<u>\$5.00</u>) per net acre per year payable in advance. The parties hereto agree that this is a Paid-Up Lease with no further Delay Rental and/or Delay in Marketing payments due to Lessor during the primary term hereof.

(B) ROYALTY: To pay Lessor as Royalty, less all taxes, assessments, and adjustments on production from the Leasehold, as follows:

1. OIL: To deliver to the credit of Lessor a Royalty equal to fifteen percent (15%) of the net revenue realized by Lessee for all oil and any constituents thereof produced and marketed from the Leasehold, less the cost to transport, handle, separate, meter, treat, process and market the oil.

2. GAS: To pay Lessor an amount equal to fifteen percent (15%) of the net revenue realized by Lessee for all gas and the constituents thereof produced and marketed from the Leasehold, less the cost to transport, gather, dehydrate, compress, market, meter, treat and process the gas and any losses in volumes to point of measurement that determines the revenue realized by Lessee. Lessee may withhold Royalty payment until such time as the total withheld exceeds fifty dollars (\$50.00).

(C) DELAY IN MARKETING: In the event that Lessee drills a well on the Leasehold or lands pooled/unitized therewith that is awaiting completion (such as hydraulic fracture stimulation), or that Lessee deems to be capable of production, but does not market producible gas, oil, or their constituents therefrom and there is no other basis for extending this Lease, Lessee shall pay after the primary term and until such time as marketing is established (or Lessee surrenders the Lease) a Delay in Marketing payment equal in amount and frequency to the annual Delay Rental payment, and this Lease shall remain in full force and effect to the same extent as payment of Royalty.

(D) SHUT-IN: In the event that production of oil, gas, or their constituents is interrupted and not marketed for a period of twelve (12) months, and there is no producing well on the Leasehold or lands pooled/unitized therewith, Lessee shall thereafter, as Royalty for constructive production, pay a Shut-in Royalty equal in amount and frequency to the annual Delay Rental payment until such time as production is re-established (or lessee surrenders the Lease) and this Lease shall remain in full force and effect. During Shut-in, Lessee shall have the right to rework, stimulate, or deepen any well on the Leasehold or to drill a new well on the Leasehold in an effort to re-establish production, whether from an original producing formation or from a different formation. In the event that the production from the only producing well on the Leasehold is interrupted for a period of less than twelve (12) months, this Lease shall remain in full force and effect without payment of Royalty or Shut-in Royalty.

(E) DAMAGES: Lessee will remove unnecessary equipment and materials and reclaim all disturbed lands at the completion of activities, and Lessee agrees to repair any damaged improvements to the land and pay for the loss of growing crops or marketable timber.

(F) MANNER OF PAYMENT: Lessee shall make or tender all payments due hereunder by check, payable to Lessor, at Lessor's last known address, and Lessee may withhold any payment pending notification by Lessor of a change in address. Payment may be tendered by mail or any comparable method (e.g., Federal Express), and payment is deemed complete upon mailing or dispatch. Where the due date for any payment specified herein falls on a holiday, Saturday or Sunday, payment tendered (mailed or dispatched) on the next business day is timely.

(G) CHANGE IN LAND OWNERSHIP: Lessee shall not be bound by any change in the ownership of the Leasehold until furnished with such documentation as Lessee may reasonably require. Pending the receipt of documentation, Lessee may elect either to continue to make or withhold payments as if such a change had not occurred.

(H) TITLE: If Lessee receives evidence that Lessor does not have title to all or any part of the rights herein leased, Lessee may immediately withhold payments that would be otherwise due and payable hereunder to Lessor until the adverse claim is fully resolved.

(I) LIENS: Lessee may at its option pay and discharge any past due taxes, mortgages, judgments, or other liens and encumbrances on or against any land or interest included in the Leasehold; and Lessee shall be entitled to recover from the debtor, with legal interest and costs, by deduction from any future payments to Lessor or by any other lawful means. In the event the leased lands are encumbered by a prior mortgage, then, notwithstanding anything contained herein to the contrary, Lessee shall have the right to suspend the payment of any royalties due hereunder, without liability for interest, until such time as Lessor obtains at its own expense a subordination of the mortgage in a form acceptable to Lessee.

(J) CHARACTERIZATION OF PAYMENTS: Payments set forth herein are covenants, not special limitations, regardless of the manner in which these payments may be invoked. Any failure on the part of the Lessee to timely or otherwise properly tender payment can never result in an automatic termination, expiration, cancellation, or forfeiture of this Lease. Lessor recognizes and acknowledges that oil and gas lease payments, in the form of rental, bonus and royalty, can vary depending on multiple factors and that this Lease is the product of good faith negotiations. Lessor hereby agrees that the payment terms, as set forth herein, and any bonus payments paid to Lessor constitute full consideration for the Leasehold. Lessor further agrees that such payment terms and bonus payments are final and that Lessor will not seek to amend or modify the lease payments, or seek additional consideration based upon any differing terms which Lessee has or will negotiate with any other lessor/oil and gas owner.

(K) PAYMENT REDUCTIONS: If Lessor owns a lesser interest in the oil or gas than the entire undivided fee simple estate, then the rentals (except for Delay Rental payments as set forth above), royalties and shut-in royalties hereunder shall be paid to Lessor only in the proportion which Lessor's interest bears to the whole and undivided fee.

<u>UNITIZATION AND POOLING.</u> Lessor grants Lessee the right to pool, unitize, or combine all or parts of the Leasehold with other lands, whether contiguous or not contiguous, leased or unleased, whether owned by Lessee or by others, at a time before or after drilling to create drilling or production units either by contract right or pursuant to governmental authorization. Pooling or unitizing in one or more instances shall not exhaust Lessee's pooling and unitizing rights hereunder, and Lessee is granted the right to change the size, shape, and conditions of operation or payment of any unit created. Lessor agrees to accept and receive out of the production or the revenue realized from the production of such unit, such proportional share of the Royalty from each unit well as the number of Leasehold acres included in the unit bears to the total number of acres in the unit. Otherwise, as to any part of the unit, drilling, operations in preparation for drilling, production, or shut-in production from the unit, or payment of Royalty, Shut-in Royalty, Delay in Marketing payment or Delay Rental attributable to any part of the unit (including non-Leasehold land) shall have the same effect upon the terms of this Lease as if a well were located on, or the subject activity attributable to, the Leasehold. In the event of conflict or inconsistency between the Leasehold acres ascribed to the Lease, and the local property tax assessment calculation of the lands covered by the Lease, or the deeded acreage amount, Lessee may, at its option, rely on the latter as being determinative for the purposes of this paragraph.

<u>FACILITIES</u>. Lessee shall not drill a well on the Leasehold within 200 feet of any structure located on the Leasehold without Lessor's written consent. Lessor shall not erect any building or structure, or plant any trees within 200 feet of a well or within 25 feet of a pipeline without Lessee's written consent. Lessor shall not improve, modify, degrade, or restrict roads and facilities built by Lessee without Lessee's written consent.

<u>CONVERSION TO STORAGE.</u> Lessee is hereby granted the right to convert the Leasehold or lands pooled/unitized therewith to gas storage. At the time of conversion, Lessee shall pay Lessor's proportionate part for the estimated recoverable gas remaining in any well drilled pursuant to this Lease using methods of calculating gas reserves as are generally accepted by the natural gas industry and, in the event that all wells on the Leasehold and/or lands pooled/unitized therewith have permanently ceased production, Lessor shall be paid a Conversion to Storage payment in an amount equal to Delay Rental for as long thereafter as the Leasehold or lands pooled/unitized therewith is/are used for gas storage or for protection of gas storage; such Conversion to Storage payment shall first become due upon the next ensuing Delay Rental anniversary date. The use of any part of the Leasehold or lands pooled or unitized therewith for the underground storage of gas, or for the protection of stored gas will extend this Lease beyond the primary term as to all rights granted by this Lease, including but not limited to production rights, regardless of whether the production and storage rights are owned together or separately.

DISPOSAL AND INJECTION WELLS. Lessor hereby grants to Lessee the right to drill wells and/or reenter existing wells, including necessary location, roadway and pipeline easements and rights of way, on any part of the Leasehold or lands pooled or unitized therewith for the disposal and/or injection into any subsurface strata, other than a potable water strata, of air, gas, brine, completion and production fluids, waste water and any hydrocarbon related substances from any source, including, but not limited to wells on the Leasehold or lands pooled or unitized therewith or from properties and lands outside the Leasehold or lands pooled or unitized therewith, and to conduct all operations as may be required, for so long as necessary and required by Lessee for purposes as herein provided. If, at the expiration of the primary term, Lessee is disposing and/or injecting into any subsurface strata underlying the Leasehold or lands pooled or unitized therewith or conducting operations for such disposal and/or injection and this lease is not being maintained by any other provision contained herein and no other payments are being made to Lessor as prescribed hereunder, Lessee shall pay to Lessor the sum of one thousand dollars (\$1,000.00) per year, proportionately reduced to Lessor's ownership in the Leasehold and surface as it bears to the full and undivided estate, beginning on the next anniversary date of this Lease and said payment and term of this Lease, insofar as to terms and provisions contained herein applicable to disposal and injection wells, shall continue annually thereafter for so long as necessary and required by Lessee for purposes as herein provided and until all disposal and/or injection wells located on the Leasehold or on lands pooled or unitized therewith are plugged and abandoned. Lessor agrees that if required by Lessee, regulatory agency or governmental authority having jurisdiction, Lessor shall enter a separate Disposal and Injection Agreement with Lessee for the purposes as herein provided.

<u>TITLE AND INTERESTS.</u> Lessor hereby warrants generally and agrees to defend title to the Leasehold and covenants that Lessee shall have quiet enjoyment hereunder and shall have benefit of the doctrine of after acquired title. Should any person having title to the Leasehold fail to execute this Lease, the Lease shall nevertheless be binding upon all persons who do execute it as Lessor.

<u>LEASE DEVELOPMENT.</u> There is no implied covenant to drill, prevent drainage, further develop or market production within the primary term or any extension of term of this Lease. There shall be no Leasehold forfeiture, termination, expiration or cancellation for failure to comply with said implied covenants. Provisions herein, including, but not limited to the prescribed payments, constitute full compensation for the privileges herein granted.

<u>COVENANTS.</u> This Lease and its expressed or implied covenants shall not be subject to termination, forfeiture of rights, or damages due to failure to comply with obligations if compliance is effectively prevented by federal, state, or local law, regulation, or decree, or the acts of God and/or third parties over whom Lessee has no control.

<u>RIGHT OF FIRST REFUSAL.</u> If at any time within the primary term of this Lease or any continuation or extension thereof, Lessor receives any bona fide offer, acceptable to Lessor, to grant an additional lease ("Top Lease") covering all or part of the Leasehold, Lessee shall have the continuing option by meeting any such offer to acquire a Top Lease on equivalent terms and conditions. Any offer must be in writing and must set forth the proposed Lessee's name, bonus consideration and royalty consideration to be paid for such Top Lease, and include a copy of the lease form to be utilized reflecting all pertinent and relevant terms and conditions of the Top Lease. Lessee shall have fifteen (15) days after receipt from Lessor of a complete copy of any such offer to advise Lessor in writing of its election to enter into an oil and gas lease with Lessor on equivalent terms and conditions. If Lessee fails to notify Lessor within the aforesaid fifteen (15) day period of its election to meet any such bona fide offer, Lessor shall have the right to accept said offer. Any Top Lease granted by Lessor in violation of this provision shall be null and void.

<u>ARBITRATION.</u> In the event of a disagreement between Lessor and Lessee concerning this Lease or the associated Order of Payment, performance thereunder, or damages caused by Lessee's operations, the resolution of all such disputes shall be determined by arbitration in accordance with the rules of the American Arbitration Association. Arbitration shall be the exclusive remedy and cover all disputes, including but not limited to, the formation, execution, validity and performance of the Lease and Order of Payment. All fees and costs associated with the arbitration shall be borne equally by Lessor and Lessee.

ENTIRE CONTRACT. The entire agreement between Lessor and Lessee is embodied herein and in the associated Order of Payment (if any). No oral warranties, representations, or promises have been made or relied upon by either party as an inducement to or modification of this Lease.

<u>TITLE CURATIVE.</u> Lessor agrees to execute affidavits, ratifications, amendments, permits and other instruments as may be necessary to carry out the purpose of this lease.

<u>SURRENDER</u>. Lessee, at any time, and from time to time, may surrender and cancel this Lease as to all or any part of the Leasehold by recording a Surrender of Lease and thereupon this Lease, and the rights and obligations of the parties hereunder, shall terminate as to the part so surrendered; provided, however, that upon each surrender as to any part of the Leasehold, Lessee shall have reasonable and convenient easements for then existing wells, pipelines, pole lines, roadways and other facilities on the lands surrendered.

<u>SUCCESSORS.</u> All rights, duties, and liabilities herein benefit and bind Lessor and Lessee and their heirs, successors, and assigns.

<u>FORCE MAJEURE.</u> All express or implied covenants of this Lease shall be subject to all applicable laws, rules, regulations and orders. When drilling, reworking, production or other operations hereunder, or Lessee's fulfillment of its obligations hereunder are prevented or delayed by such laws, rules, regulations or orders, or by inability to obtain necessary permits, equipment, services, material, water, electricity, fuel, access or easements, or by fire, flood, adverse weather conditions, war, sabotage, rebellion, insurrection, riot, strike or labor disputes, or by inability to obtain a satisfactory market for production or failure of purchasers or carriers to take or transport such production, or by any other cause not reasonably within Lessee's control, this Lease shall not terminate, in whole or in part, because of such prevention or delay, and, at Lessee's option, the period of such prevention or delay shall be added to the term hereof. Lessee shall not be liable in damages for breach of any express or implied covenants of this Lease for failure to comply therewith, if compliance is prevented by, or failure is the result of any applicable laws, rules, regulations or orders or operation of force majeure.

<u>SEVERABILITY</u>. This Lease is intended to comply with all applicable laws, rules, regulations, ordinances and governmental orders. If any provision of this Lease is held by a court of competent jurisdiction to be invalid, void, or unenforceable, the remaining provisions shall survive and continue in full force and effect to the maximum extent allowed by law. If a court of competent jurisdiction holds any provision of this Lease invalid, void, or unenforceable under applicable law, the court shall give the provision the greatest effect possible under the law and modify the provision so as to conform to applicable law if that can be done in a manner which does not frustrate the purpose of this Lease.

<u>COUNTERPARTS.</u> This Lease may be executed in one or more counterparts, each of which will be deemed to be an original copy of this Lease and all of which, when taken together, will be deemed to constitute one and the same agreement.

IN WITNESS WHEREOF, Lessor hereunto sets hand and seal.

Witness	(Seal)
Witness	(Seal)
Witness	(Seal)
Witness	(Seal)

Document prepared by: Chesapeake Exploration, L.L.C., 6100 N. Western Avenue, Oklahoma City, Oklahoma 73118

ACKNOWLEDGMENT

STATE OF)
) SS:
COUNTY OF)

On this, the _____ day of _____ 20____, before me ______, the undersigned officer, personally appeared ______, known to me (or satisfactorily proven) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged that ______ executed the same for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission Expires:	_
Signature/Notary Public:	
Name/Notary Public (print):	

CORPORATE ACKNOWLEDGMENT

STATE OF)
) SS:
COUNTY OF)

On this, the _____ day of _____ 20____, before me _____, the undersigned officer, personally appeared _____, who acknowledged himself to be the ______ of _____, a corporation, and that he as such ______, being authorized to do so, executed foregoing instrument for the purpose therein contained by signing the name of the corporation by himself as ______.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

Ay Commission Expires:	
ignature/Notary Public:	
Name/Notary Public (print):	

Recorder: Return to Chesapeake Exploration, L.L.C., Land Dept., P.O. Box 18496, Oklahoma City, Oklahoma 73154-0496.

EXHIBIT "C"

Attached to and made a part of ______ that certain Unit Operating Agreement dated November 13, 2018, for the Smith Unit.

ACCOUNTING PROCEDURE JOINT OPERATIONS

I. GENERAL PROVISIONS

1. Definitions

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"Joint Property" shall mean the real and personal property subject to the agreement to which this Accounting Procedure is attached.

development, "Joint Operations" shall all operations for the operation, protection and mean necessary or proper maintenance of the Joint Property.

"Joint Account" shall mean the account showing the charges paid and credits received in the conduct of the Joint Operations and which are to be shared by the Parties.

"Operator" shall mean the party designated to conduct the Joint Operations.

"Non-Operators" shall mean the Parties to this agreement other than the Operator.

"Parties" shall mean Operator and Non-Operators.

"First Level Supervisors" shall mean those employees whose primary Joint Operations function in is the direct Property supervision of other employees and/or contract labor directly employed on the Joint in field а operating capacity.

- specific "Technical Employees" shall mean those employees having special and engineering, geological or other professional skills, and whose primary function in Joint Operations is the handling of specific operating conditions and problems for the benefit of the Joint Property.
 - "Personal Expenses" shall mean travel and other reasonable reimbursable expenses of Operator's employees.

"Material" shall mean personal property, equipment or supplies acquired or held for use on the Joint Property.

"Controllable Material" shall mean Material which at the time is so classified in the Material Classification Manual as most recently recommended by the Council or Petroleum Accountants Societies.

36 2. Statement and Billings

Operator shall bill Non-Operators on or before the last day of each month for their proportionate share of the Joint Account for the preceding month. Such bills will be accompanied by statements which identify authority for the expenditure, lease or facility, and all charges and credits summarized by appropriate classifications of investment and expense except that items of Controllable Material and unusual charges and credits shall be separately identified and fully described in detail.

3. Advances and Payments by Non-Operators

- A. Unless otherwise provided for in the agreement, the Operator may require the Non-Operators to advance their share of estimated cash outlay for the succeeding month's operation within fifteen (15) days after receipt of the billing or by the first day of the month for which the advance is required, whichever is later. Operator shall adjust each monthly billing to reflect advances received from the Non-Operators.
- Each Non-Operator shall pay its proportion of all bills within $/\frac{\text{fifteen}}{\text{fifteen}}$ (15) days after receipt. If payment is not made B. within such time, the unpaid balance shall bear interest monthly at the greater rate of prime plus 2% or at the rate of 12% per annum, compounded monthly, on the first day of the month in which delinquency occurs or maximum contract rate permitted by the applicable usury laws in the state in which the Joint Property is located, whichever is the lesser, plus attorney's fees, court costs, and other costs in connection with the collection of unpaid amounts.

thirty (30) Operator may, at its option, choose to substitute other penalties described elsewhere in this Agreement for failure to pay bills within the / fifteen (15) day time frame described above.

4. Adjustments

Payment of any such bills shall not prejudice the right of any Non-Operator to protest or question the correctness thereof; provided, however, all bills and statements rendered to Non-Operators by Operator during any calendar year shall conclusively be presumed to be true and correct after twenty-four (24) months following the end of any such calendar year, unless within the said twenty-four (24) month period a Non-Operator takes written exception thereto and makes claim on Operator for adjustment. No adjustment favorable to Operator shall be made unless it is made within the same prescribed period. The provisions of this paragraph shall not prevent adjustments resulting from a physical inventory of Controllable Material as provided for in Section V.

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A. A Non-Operator, upon notice in writing to Operator and all other Non-Operators, shall have the right to audit Operator's accounts and records relating to the Joint Account for any calendar year within the twenty-four (24) month period following the end of such calendar year; provided, however, the making of an audit shall not extend the time for the taking of written exception to and the adjustments of accounts as provided for in Paragraph 4 of this Section I. Where there are two or more Non-Operators, the Non-Operators shall make every reasonable effort to conduct a joint audit in a manner which will result in a minimum of inconvenience to the Operator. Operator shall bear no portion of the Non-Operators' audit cost incurred under this paragraph unless agreed to by the Operator. The audits shall not be conducted more than once each year without prior approval of Operator, except upon the resignation or removal of the Operator, and shall be made at the expense of those Non-Operators approving such audit.

B. The Operator shall reply in writing to an audit report within 180 days after receipt of such report.

6. Approval By Non-Operators

Where an approval or other agreement of the Parties or Non-Operators is expressly required under other sections of this Accounting Procedure and if the agreement to which this Accounting Procedure is attached contains no contrary provisions in regard thereto, Operator shall notify all Non-Operators of the Operator's proposal, and the agreement or approval of a majority in interest of the Non-Operators shall be controlling on all Non-Operators.

II. DIRECT CHARGES

Operator shall charge the Joint Account with the following items:

1. Ecological and Environmental

Costs incurred for the benefit of the Joint Property as a result of governmental or regulatory requirements to satisfy environmental considerations applicable to the Joint Operations. Such costs may include surveys of an ecological or archaeological nature and pollution control procedures as required by applicable laws and regulations.

2. Rentals and Royalties

Lease rentals and royalties paid by Operator for the Joint Operations.

3. Labor

and/or consultants

- A. (1) Salaries and wages of Operator's field employees directly employed on the Joint Property in the conduct of Joint Operations.
 - (2) Salaries of First level Supervisors in the field. and/or consultants
 - (3) Salaries and wages of Technical Employees[/] directly employed on the Joint Property if such charges are excluded from the overhead rates.

and/or consultants

- (4) Salaries and wages of Technical Employees either temporarily or permanently assigned to and directly employed in the operation or the Joint Property if such charges are excluded from the overhead rates.
- B. Operator's cost of holiday, vacation, sickness and disability benefits and other customary allowances paid to employees whose salaries and wages are chargeable to the Joint Account under Paragraph 3A of this Section II. Such costs under this Paragraph 3B may be charged on a "when and as paid basis" or by "percentage assessment" on the amount of salaries and wages chargeable to the Joint Account under Paragraph 3A of this Section II. If percentage assessment is used, the rate shall be based on the Operator's cost experience.
- C. Expenditures or contributions made pursuant to assessments imposed by governmental authority which are applicable to Operator's costs chargeable to the Joint Account under Paragraphs 3A and 3B of this Section II.
- D. Personal Expenses of those employees whose salaries and wages are chargeable to the Joint Account under Paragraphs 3A and 3B of this Section II.

Employee Benefits

Operator's current costs or established plans for employees' group life insurance, hospitalization, pension, retirement, stock purchase, thrift, bonus, and other benefit plans of a like nature, applicable to Operator's labor cost chargeable to the Joint Account under Paragraphs 3A and 3B of this Section II shall be Operator's actual cost not to exceed the percent most recently recommended by the Council of Petroleum Accountants Societies.

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5. Material 2

 Material purchased or furnished by Operator for use on the Joint Property as provided under Section IV. Only such Material shall be purchased for or transferred to the Joint Property as may be required for immediate use and is reasonably practical and consistent with efficient and economical operations. The accumulation of surplus stocks shall be avoided.

8 6. Transportation

Transportation of employees and Material necessary for the Joint Operations but subject to the following limitations:

- A. If Material is moved to the Joint Property from the Operator's warehouse or other properties, no charge shall be made to the Joint Account for a distance greater than the distance from the nearest reliable supply store where like material is normally available or railway receiving point nearest the Joint Property unless agreed to by the Parties.
- B. If surplus Material is moved to Operator's warehouse or other storage point, no charge shall be made to the Joint Account for a distance greater than the distance to the nearest reliable supply store where like material is normally available, or railway receiving point nearest the Joint Property unless agreed to by the Parties. No charge shall be made to the Joint Account for moving Material to other properties belonging to Operator, unless agreed to by the Parties.
- C. In the application of subparagraphs A and B above, the option to equalize or charge actual trucking cost is available when the actual charge is \$400 or less excluding accessorial charges. The \$400 will be adjusted to the amount most recently recommended by the Council of Petroleum Accountants Societies.

7. Services

The cost of contract services, equipment and utilities provided by outside sources, except services excluded by Paragraph 10 of Section II and Paragraph i, ii, and iii, of Section III. The cost of professional consultant services and contract services of technical personnel directly engaged on the Joint Property if such charges are excluded from the overhead rates. The cost of professional consultant services or contract services of technical personnel not directly engaged on the Joint Property shall not be charged to the Joint Account unless previously agreed to by the Parties.

34 8. Equipment and Facilities Furnished By Operator

- B. In lieu of charges in Paragraph 8A above, Operator may elect to use average commercial rates prevailing in the immediate area of the Joint Property less 20%. For automotive equipment, Operator may elect to use rates published by the Petroleum Motor Transport Association.

9. Damages and Losses to Joint Property

All costs or expenses necessary for the repair or replacement of Joint Property made necessary because of damages or losses incurred by fire, flood, storm, theft, accident, or other cause, except those resulting from Operator's gross negligence or willful misconduct. Operator shall furnish Non-Operator written notice of damages or losses incurred as soon as practicable after a report thereof has been received by Operator.

53 10. Legal Expense

title and regulatory work,

Expense of handling, investigating and settling litigation or claims, [/] discharging of liens, payment of judgments and amounts paid for settlement of claims incurred in or resulting from operations under the agreement or necessary to protect or recover the Joint Property. except that no charge for services of Operator's legal staff or fees or expense of outside attorneys shall be made unless previously agreed to by the Parties. All other legal expense is considered to be covered by the overhead provisions of Section III unless otherwise agreed to by the Parties, except as provided in Section I, Paragraph 3.

62 11. Taxes

All taxes of every kind and nature assessed or levied upon or in connection with the Joint Property, the operation thereof, or the production therefrom, and which taxes have been paid by the Operator for the benefit of the Parties. If the ad valorem taxes are based in whole or in part upon separate valuations of each party's working interest, then notwithstanding anything to the contrary herein, charges to the Joint Account shall be made and paid by the Parties hereto in accordance with the tax value generated by each party's working interest.

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1 12. Insurance

Net premiums paid for insurance required to be carried for the Joint Operations for the protection of the Parties. In the event Joint Operations are conducted in a state in which Operator may act as self-insurer for Worker's Compensation and/or Employers Liability under the respective state's laws, Operator may, at its election, include the risk under its self-insurance program and in that event, Operator shall include a charge at Operator's cost not to exceed manual rates.

13. Abandonment and Reclamation

Costs incurred for abandonment of the Joint Property, including costs required by governmental or other regulatory authority.

14. Communications

Cost of acquiring, leasing, installing, operating, repairing and maintaining communication systems, including radio and microwave facilities directly serving the Joint Property. In the event communication facilities/systems serving the Joint Property are Operator owned, charges to the Joint Account shall be made as provided in Paragraph 8 of this Section II.

19 15. Other Expenditures

The cost of Operator's Field Offices not covered in Section III, or any

Any other expenditure not covered or dealt with in the foregoing provisions of this Section II, or in Section III and which is of direct benefit to the Joint Property and is incurred by the Operator in the necessary and proper conduct of the Joint Operations.

III. OVERHEAD

28 1. Overhead - Drilling and Producing Operations

- i. As compensation for administrative, supervision, office services and warehousing costs, Operator shall charge drilling and producing operations on either:
 - (X) Fixed Rate Basis, Paragraph 1A, or

() Percentage Basis, Paragraph lB

Unless otherwise agreed to by the Parties, such charge shall be in lieu of costs and expenses of all offices and salaries or wages plus applicable burdens and expenses of all personnel, except those directly chargeable under Paragraph 3A, Section II. The cost and expense of services from outside sources in connection with matters of taxation, traffic, accounting or matters before or involving governmental agencies shall be considered as included in the overhead rates provided for in the above selected Paragraph of this Section III unless such cost and expense are agreed to by the Parties as a direct charge to the Joint Account.

- ii. The salaries, wages and Personal Expenses of Technical Employees and/or the cost of professional consultant services and contract services of technical personnel directly employed on the Joint Property:
 - () shall be covered by the overhead rates, or
 - (X) shall not be covered by the overhead rates.
- iii. The salaries, wages and Personal Expenses of Technical Employees and/or costs of professional consultant services and contract services of technical personnel either temporarily or permanently assigned to and directly employed in the operation of the Joint Property:
 - () shall be covered by the overhead rates, or
 - (X) shall not be covered by the overhead rates.

A. Overhead - Fixed Rate Basis

(1) Operator shall charge the Joint Account at the following rates per well per month:

Drilling Well Rate \$ 19,059.34 (Prorated for less than a full month)

Producing Well Rate \$ 1,905.93

- (2) Application of Overhead Fixed Rate Basis shall be as follows:
 - (a) Drilling Well Rate

location work begins

(1) Charges for drilling wells shall begin on the date [/] the well is spudded and terminate on the date the drilling rig, completion rig, or other units used in completion of the well is released, whichever

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is later, except that no charge shall be made during suspension of drilling or completion operations for fifteen (15) or more consecutive calendar days.
(2) Charges for wells undergoing any type of workover or recompletion for a period of five (5) consecutive work days or more shall be made at the drilling well rate. Such charges shall be applied for the period from date workover operations, with rig or other units used in workover, commence through date of rig or other unit release, except that no charge shall be made during suspension of operations for fifteen (15) or more consecutive calendar days.

(b) Producing Well Rates

- (1) An active well either produced or injected into for any portion of the month shall be considered as a one-well charge for the entire month.
- (2) Each active completion in a multi-completed well in which production is not commingled down hole shall be considered as a one-well charge providing each completion is considered a separate well by the governing regulatory authority.
- (3) An inactive gas well shut in because of overproduction or failure of purchaser to take the production shall be considered as a one-well charge providing the gas well is directly connected to a permanent sales outlet.
- (4) A one-well charge shall be made for the month in which plugging and abandonment operations are completed on any well. This one-well charge shall be made whether or not the well has produced except when drilling well rate applies.
- (5) All other inactive wells (including but not limited to inactive wells covered by unit allowable, lease allowable, transferred allowable, etc.) shall not qualify for an overhead charge.
- (3) The well rates shall be adjusted as of the first day of April each year following the effective date of the by the percent increase or decrease published by COPAS agreement to which this Accounting Procedure is attached /. The adjustment shall be computed by multiplying the rate currently in use by the percentage increase or decrease in the average weekly earnings of Crude Petroleum and Gas Production Workers for the last calendar year compared to the calendar year preceding as an shown by / the index of average weekly earnings of Crude Petroleum and Gas Production Workers as approved and recorded by COPAS. published by the United States Department of Labor, Bureau of Labor Statistics, or the equivalent Canadian index as published by Statistics Canada, as applicable. The adjusted rates shall be the rates currently in use, plus or minus the computed adjustment.
- B. Overhead Percentage Basis

(1) Operator shall charge the Joint Account at the following rates:

(a) Development

_____Percent (_____%) of the cost of development of the Joint Property exclusive of costs provided under Paragraph 10 of Section II and all salvage credits.

(b) Operating

Percent (_______%) of the cost of operating the Joint Property exclusive of costs provided under Paragraphs 2 and 10 of Section II, all salvage credits, the value of injected substances purchased for secondary recovery and all taxes and assessments which are levied, assessed and paid upon the mineral interest in and to the Joint Property.

(2) Application of Overhead - Percentage Basis shall be as follows:

For the purpose of determining charges on a percentage basis under Paragraph 1B of this Section III, development shall include all costs in connection with drilling, redrilling, deepening, or any remedial operations on any or all wells involving the use of drilling rig and crew capable of drilling to the producing interval on the Joint Property; also, preliminary expenditures necessary in preparation for drilling and expenditures incurred in abandoning when the well is not completed as a producer, and original cost of construction or installation of fixed assets, the expansion of fixed assets and any other project clearly discernible as a fixed asset, except Major Construction as defined in Paragraph 2 of this Section III. All other costs shall be considered as operating.

2. Overhead - Major Construction

To compensate Operator for overhead costs incurred in the construction and installation of fixed assets, the expansion of fixed assets, and any other project clearly discernible as a fixed asset required for the development and operation of the Joint Property, Operator shall either negotiate a rate prior to the beginning of construction, or shall charge the Joint Account for overhead based on the following rates for any Major Construction project in excess of \$_____50,000.00_:

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- A. 5.0 % of first \$100,000 or total cost if less, plus
- B. <u>3.0</u> % of costs in excess of \$100,000 but less than \$1,000,000, plus
- C. <u>2.0</u> % of costs in excess of \$1,000,000.

Total cost shall mean the gross cost of any one project. For the purpose of this paragraph, the component parts of a single project shall not be treated separately and the cost of drilling and workover wells and artificial lift equipment shall be excluded.

3. Catastrophe Overhead

To compensate Operator for overhead costs incurred in the event of expenditures resulting from a single occurrence due to oil spill, blowout, explosion, fire, storm, hurricane, or other catastrophes as agreed to by the Parties, which are necessary to restore the Joint Property to the equivalent condition that existed prior to the event causing the expenditures, Operator shall either negotiate a rate prior to charging the Joint Account or shall charge the Joint Account for overhead based on the following rates:

- A. <u>5.0</u>% of total costs through \$100,000; plus
 - B. 3.0 % of total costs in excess of \$100,000 but less than \$1,000,000; plus
- C. <u>2.0</u> % of total costs in excess of \$1,000,000.

Expenditures subject to the overheads above will not be reduced by insurance recoveries, and no other overhead provisions of this Section III shall apply.

264. Amendment of Rates27

The overhead rates provided for in this Section III may be amended from time to time only by mutual agreement between the Parties hereto if, in practice, the rates are found to be insufficient or excessive.

IV. PRICING OF JOINT ACCOUNT MATERIAL PURCHASES, TRANSFERS AND DISPOSITIONS

Operator is responsible for Joint Account Material and shall make proper and timely charges and credits for all Material movements affecting the Joint Property. Operator shall provide all Material for use on the Joint Property; however, at Operator's option, such Material may be supplied by the Non-Operator. Operator shall make timely disposition of idle and/or surplus Material, such disposal being made either through sale to Operator or Non-Operator, division in kind, or sale to outsiders. Operator may purchase, but shall be under no obligation to purchase, interest of Non-Operators in surplus condition A or B Material. The disposal of surplus Controllable Material not purchased by the Operator shall be agreed to by the Parties.

1. Purchases

Material purchased shall be charged at the price paid by Operator after deduction of all discounts received. In case of Material found to be defective or returned to vendor for any other reasons, credit shall be passed to the Joint Account when adjustment has been received by the Operator.

2. Transfers and Dispositions

Material furnished to the Joint Property and Material transferred from the Joint Property or disposed of by the Operator, unless otherwise agreed to by the Parties, shall be priced on the following basis exclusive of cash discounts:

- A. New Material (Condition A)
 - (1) Tubular Goods Other than Line Pipe
 - (a) Tubular goods, sized 2 3/8 inches OD and larger, except line pipe, shall be priced at Eastern mill published carload base prices effective as of date of movement plus transportation cost using the 80,000 pound carload weight basis to the railway receiving point nearest the Joint Property for which published rail rates for tubular goods exist. If the 80,000 pound rail rate is not offered, the 70,000 pound or 90,000 pound rail rate may be used. Freight charges for tubing will be calculated from Lorain, Ohio and casing from Youngstown, Ohio.
 - (b) For grades which are special to one mill only, prices shall be computed at the mill base of that mill plus transportation cost from that mill to the railway receiving point nearest the Joint Property as provided above in Paragraph 2.A.(1)(a). For transportation cost from points other than Eastern mills, the 30,000

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pound Oil Field Haulers Association interstate truck rate shall be used.

- (c) Special end finish tubular goods shall be priced at the lowest published out-of-stock price, f.o.b. Houston, Texas, plus transportation cost, using Oil Field Haulers Association interstate 30,000 pound truck rate, to the railway receiving point nearest the Joint Property.
- (d) Macaroni tubing (size less than 2 3/8 inch OD) shall be priced at the lowest published out-of-stock prices f.o.b. the supplier plus transportation costs, using the Oil Field Haulers Association interstate truck rate per weight of tubing transferred, to the railway receiving point nearest the Joint Property.
- (2) Line Pipe

- (a) Line pipe movements (except size 24 inch OD and larger with walls ³/₄ inch and over) 30,000 pounds or more shall be priced under provisions of tubular goods pricing in Paragraph A.(1)(a) as provided above. Freight charges shall be calculated from Lorain, Ohio.
- (b) Line Pipe movements (except size 24 inch OD) and larger with walls ³/₄ inch and over) less than 30,000 pounds shall be priced at Eastern mill published carload base prices effective as of date of shipment, / plus 20 percent, plus transportation costs based on freight rates as set forth under provisions of tubular goods pricing in Paragraph A.(1)(a) as provided above. Freight charges shall be calculated from Lorain, Ohio.
- (c) Line pipe 24 inch OD and over and ³/₄ inch wall and larger shall be priced f.o.b. the point of manufacture at current new published prices plus transportation cost to the railway receiving point nearest the Joint Property.
- (d) Line pipe, including fabricated line pipe, drive pipe and conduit not listed on published price lists shall be priced at quoted prices plus freight to the railway receiving point nearest the Joint Property or at prices agreed to by the Parties.
- (3) Other Material shall be priced at the current new price, in effect at date of movement, as listed by a reliable supply store nearest the Joint Property, or point of manufacture, plus transportation costs, if applicable, to the railway receiving point nearest the Joint Property.
- (4) Unused new Material, except tubular goods, moved from the Joint Property shall be priced at the current new price, in effect on date of movement, as listed by a reliable supply store nearest the Joint Property, or point of manufacture, plus transportation costs, if applicable, to the railway receiving point nearest the Joint Property. Unused new tubulars will be priced as provided above in Paragraph 2.A.(1) and (2).
- B. Good Used Material (Condition B)

Material in sound and serviceable condition and suitable for reuse without reconditioning:

(1) Material moved to the Joint Property

At seventy-five percent (75%) of current new price, as determined by Paragraph A.

- (2) Material used on and moved from the Joint Property
 - (a) At seventy-five percent (75%) of current new price, as determined by Paragraph A, if Material was originally charged to the Joint Account as new Material or
 - (b) At sixty-five percent (65%) of current new price, as determined by Paragraph A, if Material was originally charged to the Joint Account as used Material
- (3) Material not used on and moved from the Joint Property

At seventy-five percent (75%) of current new price as determined by Paragraph A.

The cost of reconditioning, if any, shall be absorbed by the transferring property.

- C. Other Used Material
 - (1) Condition C

Material which is not in sound and serviceable condition and not suitable for its original function until after reconditioning shall be priced at fifty percent (50%) of current new price as determined by Paragraph A. The cost of reconditioning shall be charged to the receiving property, provided Condition C value plus cost of reconditioning does not exceed Condition B value.

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(2) Condition D

Material, excluding junk, no longer suitable for its original purpose, but usable for some other purpose shall be priced on a basis commensurate with its use. Operator may dispose of Condition D Material under procedures normally used by Operator without prior approval of Non-Operators.

- (a) Casing, tubing, or drill pipe used as line pipe shall be priced as Grade A and B seamless line pipe of comparable size and weight. Used casing, tubing or drill pipe utilized as line pipe shall be priced at used line pipe prices.
- (b) Casing, tubing or drill pipe used as higher pressure service lines than standard line pipe, e.g. power oil lines, shall be priced under normal pricing procedures for casing, tubing, or drill pipe. Upset tubular goods shall be priced on a non upset basis.

(3) Condition E

Junk shall be priced at prevailing prices. Operator may dispose of Condition E Material under procedures normally utilized by Operator without prior approval of Non-Operators.

D. Obsolete Material

Material which is serviceable and usable for its original function but condition and/or value of such Material is not equivalent to that which would justify a price as provided above may be specially priced as agreed to by the Parties. Such price should result in the Joint Account being charged with the value of the service rendered by such Material.

E. Pricing Conditions

- (1) Loading or unloading costs may be charged to the Joint Account at the rate of twenty-five cents (25¢) per hundred weight on all tubular goods movements, in lieu of actual loading or unloading costs sustained at the stocking point. The above rate shall be adjusted as of the first day of April each year following January 1, 1985 by the same percentage increase or decrease used to adjust overhead rates in Section III, Paragraph 1.A.(3). Each year, the rate calculated shall be rounded to the nearest cent and shall be the rate in effect until the first day of April next year. Such rate shall be published each year by the Council of Petroleum Accountants Societies.
- (2) Material involving erection costs shall be charged at applicable percentage of the current knocked-down price of new Material.

3. Premium Prices

Whenever Material is not readily obtainable at published or listed prices because of national emergencies. strikes or other unusual causes over which the Operator has no control, the Operator may charge the Joint Account for the required Material at the Operator's actual cost incurred in providing such Material, in making it suitable for use, and in moving it to the Joint Property; provided notice in writing is furnished to Non-Operators of the proposed charge prior to billing Non-Operators for such Material. Each Non-Operator shall have the right, by so electing and notifying Operator within ten days after receiving notice from Operator, to furnish in kind all or part of his share of such Material suitable for use and acceptable to Operator.

50 4. Warranty of Material Furnished By Operator

Operator does not warrant the Material furnished. In case of defective Material, credit shall not be passed to the Joint Account until adjustment has been received by Operator from the manufacturers or their agents.

V. INVENTORIES

58 The Operator shall maintain detailed records of Controllable Material.

60 1. Periodic Inventories, Notice and Representation

At reasonable intervals, inventories shall be taken by Operator of the Joint Account Controllable Material. Written notice of intention to take inventory shall be given by Operator at least thirty (30) days before any inventory is to begin so that Non-Operators may be represented when any inventory is taken. Failure of Non-Operators to be represented at an inventory shall bind Non-Operators to accept the inventory taken by Operator.

67 2. Reconciliation and Adjustment of Inventories

69Adjustments to the Joint Account resulting from the reconciliation of
months following the taking of the inventory. Inventory adjustments shall be made by Operator to the Joint Account for70months following the taking of the inventory. Inventory adjustments shall be made by Operator to the Joint Account for

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overages and shortages, but, Operator shall be held accountable only for shortages due to lack of reasonable diligence.

3 3. Special Inventories

Special inventories may be taken whenever there is any sale, change of interest, or change of Operator in the Joint Property. It shall be the duty of the party selling to notify all other Parties as quickly as possible after the transfer of interest takes place. In such cases, both the seller and the purchaser shall be governed by such inventory. In cases involving a change of Operator, all Parties shall be governed by such inventory.

10 4. Expense of Conducting Inventories

- A. The expense of conducting periodic inventories shall not be charged to the Joint Account unless agreed to by the Parties.
- B. The expense of conducting special inventories shall be charged to the Parties requesting such inventories, except inventories required due to change of Operator shall be charged to the Joint Account.

EXHIBIT "D"

Attached to and made a part of that certain Unit Operating Agreement dated November 13, 2018, for the Smith Unit.

1. Operator shall procure and maintain, at all times while conducting operations under this Agreement, the following insurance coverages with limits not less than those specified below:

A. Workers' Compensation Employer's Liability	Statutory \$1,000,000 Each Accident
B. General Liability including bodily injury and property damage liability	\$5,000,000 Combined Single Limit
C. Auto Liability	\$1,000,000 Combined Single Limit
D. Excess or Umbrella Liability	\$20,000,000 Combined Single Limit
E. Cost of Well Control and Care, Custody and Control	\$5,000,000 Each Occurrence and \$250,000 CCC
F. Pollution Liability	\$20,000,000 Combined Single Limit

2. The insurance described in 1. above shall include Non-Operator as additional insured (except Workers' Compensation) and shall include a waiver by the insurer of all rights of subrogation in favor of Non-Operator. Such insurance shall be carried at the joint expense of the parties hereto and all premiums and other costs and expenses related thereto shall be charged to the Joint Account in accordance with the Accounting Procedure attached as Exhibit "C" to this Agreement, unless prior to spud a party hereto who desires to provide its own insurance or self-insurance provides Operator with a certificate of insurance evidencing such individual coverage.

3. Operator shall endeavor to have its contractors and subcontractors comply with applicable Workers' Compensation laws, rules and regulations and carry such insurance as Operator may deem necessary.

4. Operator shall not be liable to Non-Operator for loss suffered because of insufficiency of the insurance procured and maintained for the Joint Account nor shall Operator be liable to Non-Operator for any loss occurring by reason of Operator's inability to procure or maintain the insurance provided for herein. If, in Operator's opinion, at any time during the term of this Agreement, Operator is unable to procure or maintain said insurance on commercially reasonable terms, or Operator reduces the limits of insurance, Operator shall promptly so notify Non-Operator in writing.

5. In the event of loss not covered by the insurance provided for herein, such loss shall be charged to the Joint Account and borne by the parties in accordance with their respective percentage of participation as determined by this Agreement.

6. Any party hereto may individually and at its own expense procure such additional insurance as it desires; provided, however, such party shall provide Operator with a certificate of insurance evidencing such coverage before spud of the well and such coverage shall include a waiver by the insurer of all rights of subrogation in favor of the parties hereto.

End of Exhibit "D"

EXHIBIT "E"

Attached to and made a part of that certain Unit Operating Agreement dated November 13, 2018, for the Smith Unit ("Operating Agreement").

Gas Balancing Agreement

I. <u>DEFINITIONS</u>:

For the purposes of this Gas Balancing Agreement ("GBA") the following terms shall be defined as follows:

(a) "Affiliate" shall have the meaning ascribed to such term in the Operating Agreement.

(b) The "Allowable" is the maximum rate of Gas production from each Gas Well permitted from time to time by the regulatory authority having jurisdiction.

(c) "Balance" is the condition occurring when a party has utilized, sold or disposed of a Quantity of Gas equal to the same percentage of the cumulative Gas production as such party's Percentage Ownership during the period of such cumulative Gas production.

(d) "Deliverability" shall mean the maximum sustainable daily Gas withdrawal from a Gas Well which may be accomplished without detriment to ultimate recovery of reserves as determined by Operator acting in good faith and taking into account relevant operational factors including, but not limited to, pipeline capacity and pressure and the maximum producing capability of the Gas Well based on data reported to the appropriate governmental agency having jurisdiction.

(e) "Gas" shall mean all gaseous hydrocarbons produced from each Gas Well but shall not include liquid hydrocarbons.

(f) "Gas Well" shall mean each well subject to the Operating Agreement that produces gas. If a single Gas Well is completed in two or more reservoirs, such Gas Well will be considered a separate Gas Well with respect to, but only as to, each reservoir from which the Gas production is not commingled in the well bore.

(g) "MMBtu" shall mean one million British thermal units.

(h) "Operating Agreement" means the operating agreement between the Parties to which this GBA is attached.

(i) "Operator" means the Party designated as operator under the Operating Agreement.

(j) "Overproduced" is the condition occurring when a party has utilized, disposed of or sold a greater Quantity of Gas from a particular Gas Well at any given time (individually or through its gas purchaser) than if such party were in Balance.

(k) "parties" means the legal entities that are signatory to the Operating Agreement, or their successors and assigns. Parties shall be referred to individually as a party.

(1) "Percentage Ownership" is the percentage interest of each party in each Gas Well as set forth in or determined in accordance with the provisions of the Operating Agreement, as such interest may change from time to time.

(m) "Percentage of Proceeds Sale" means a sale of Gas processed in a gas processing plant the price for which is computed as a percentage of the proceeds from the resale of residue gas and natural gas liquids attributable to such Gas.

(n) "Quantity" shall mean the number of units of Gas expressed in MMBtus.

(o) "Underproduced" is the condition occurring when a party has utilized, disposed of or sold a lesser Quantity of Gas from a particular Well at any given time (individually or through its

gas purchaser) than if such party were in Balance.

II. APPLICATION OF THIS AGREEMENT

The provisions of this GBA shall be separately applicable to each Gas Well to the end that Gas production from one Gas Well may not be utilized for the purposes of balancing underproduction of Gas from any other Gas Well.

III. OVERPRODUCTION

A. <u>Right to Take All Gas Produced</u>

Subject to the other provisions herein, during any period when any party hereto is not marketing or otherwise disposing of or utilizing its Percentage Ownership of the Allowable or Deliverability, as applicable, of Gas from any Gas Well, the other parties shall be entitled--but shall not have the obligation--to take, in addition to their own Percentage Ownership of Gas, that portion of such other party's Percentage Ownership of Gas which said party is not marketing, utilizing or otherwise disposing of, and shall be entitled to take such Gas production and deliver same to its or their purchasers in accordance with the provisions herein. Each such taking party shall have the right to take its pro rata portion of each such non-taking party's share, said pro rata portion being based on the ratio of its Percentage Ownership to the Percentage Ownership of all parties in the same balancing status (either Overproduced or Underproduced) who elect to take such non-taking party's share of gas; provided, however, an Underproduced party desiring to take a non-taking party's share of Gas shall take precedence over an Overproduced party which wishes to take such non-taking party's Gas, and an Overproduced party shall be entitled to take a non-taking party's share of Gas only to the extent that an Underproduced party has elected not to take said Gas. The Gas of a party not taking its production shall be allocated to a taking party hereunder prior to calculation of percentage entitlement to make up Gas from an Overproduced party under Article IV, below.

Notwithstanding the foregoing, all parties shall share in and own the liquid hydrocarbons recovered from Gas by primary separation equipment in accordance with their respective Percentage Ownership, which liquid hydrocarbon ownership shall be unaffected by this GBA. One or more parties may arrange to have their Gas processed in a gas processing plant for the recovery of liquefiable hydrocarbons. Nothing in this GBA shall afford a basis for balancing any liquefiable hydrocarbons recovered from a Gas processing plant. Each party taking Gas shall own all of the Gas delivered to its purchaser.

B. Limitation on Overproduced Party's Right to Take Gas

Notwithstanding the provisions of Article III.A., above, if during any time and from time to time an Overproduced party shall have taken more than one hundred percent (100%) of such party's Percentage Ownership share of the estimated ultimate recoverable reserves for a Gas Well as determined by Operator acting in good faith, said Overproduced party shall not, after receipt of written notice of said fact from Operator, be entitled to take, sell or otherwise dispose of Gas from such Gas Well until such time as said party is no longer Overproduced; provided, however, said Overproduced party may take Gas from such Gas Well without restriction if and for so long as the other parties are not taking Gas from such Gas Well their full share of the Gas or as otherwise authorized by all of the Underproduced parties. Also, no Overproduced party shall at any time be entitled to take, sell or otherwise dispose of more than 300% of its Percentage Ownership of the Allowable from a Gas Well or, if there is no Allowable established, of the Deliverability of a Gas Well.

C. Credit For Gas in Storage

Each party who markets less than its Percentage Ownership of the Gas produced shall be credited with Gas in storage equal to its Percentage Ownership share of the Gas produced, less the Gas actually marketed and taken by said party, and less such Party's Percentage Ownership share of the Gas, vented, used or lost in lease operations.

IV. RIGHT OF UNDERPRODUCED PARTY TO MAKE UP PRODUCTION

Any Underproduced party may commence making up its underproduction provided it has given written notice to the Operator not later than the fifth day of the month preceding the month in which it wishes to commence making up its underproduction, or within such other time as Operator may from time to time reasonably establish.

In addition to its Percentage Ownership and its rights to a non-taking party's Gas under Article III, above, each Underproduced party will be entitled to take up to an additional twenty-five percent (25%) of the monthly Quantity of each Overproduced party's Percentage Ownership in Gas produced during any month; provided, however, nothing in this Article IV shall reduce the right of any Overproduced party to take a Quantity of Gas available for sale during any month less than seventy-five percent (75%) of its Percentage Ownership in Gas produced in said month.

If at any time more than one Underproduced party is taking a Quantity of Gas in excess of its Percentage Ownership in Gas production in order to balance its Gas production account ("Makeup"), then each such Underproduced party shall be entitled to take such Makeup in proportion that its Percentage Ownership bears to the total Percentage Ownership of all Underproduced parties desiring to take Makeup from the Well. Any portion of the Makeup to which an Underproduced party is entitled and which is not taken by such Underproduced party may be taken by any other Underproduced party in the proportion that its Percentage Ownership of all Underproduced party of the total Percentage Ownership bears to the total Percentage Ownership bears to the total Percentage Ownership bears to the total Percentage Ownership of all Underproduced parties desiring to take such untaken portion of Makeup.

V. MONTHLY DATA AND STATEMENTS TO BE PROVIDED

The Operator will establish and maintain a current Gas account which shows the Gas balance which exists for all the parties and will furnish each of these parties a monthly statement showing the total Quantity of Gas sold and taken in kind and the current and cumulative over and under account of each party within ninety (90) days following the end of each applicable month. Operator shall not incur any liability to any party for errors in the data provided by each party or third parties or for other matters pertaining to gas balancing statements (e.g., transporter's allocation of Gas). Each party shall be responsible for promptly providing written notification to Operator of any error(s) or inaccuracy(ies) contained in any gas balancing statement which it receives.

VI. PAYMENT OF ROYALTIES AND PRODUCTION TAXES

At all times while Gas is produced from a Well, each party hereto will make, or cause to be made, settlement with respective royalty owners to whom each is accountable in accordance with the actual volumes of Gas taken by such party. Upon written request from any party, any other party shall provide on a monthly basis, any additional information which such requesting party may require in order to comply with its obligation to pay royalty pursuant to the terms hereof including, without limitation, name, address, decimal interest, tax identification and, to the extent it has same, title opinions and abstracts of ownership. The term "royalty owner" includes owners of royalty, overriding royalties, production payments and similar interests. Each party agrees to indemnify and hold harmless each other party from any and all claims asserted by its royalty owners and its Gas Purchasers for which said indemnifying party is responsible. Each party producing and/or delivering Gas to its purchaser shall pay, or cause to be paid, any and all production, severance and other similar taxes due on such Gas in accordance with the actual volumes of Gas taken by such party.

VII. CASH SETTLEMENTS

A. <u>Events Occasioning Cash Settlements</u>

A cash settlement of any imbalance of Gas production: (i) shall be made when production from a Gas Well permanently ceases or the Operating Agreement otherwise terminates (each being referred to herein as "Termination"); and (ii) shall be made by an Overproduced party at the request and option of any Underproduced party or parties upon the sale, transfer, assignment, mortgage or other disposition to an unaffiliated entity (herein individually or collectively referred to as a "Transfer"), by an Overproduced party of all or any portion of its Percentage Ownership in any Gas Well unless (x) the Transfer documentation clearly provides that the assignee has expressly assumed the gas balance position of, and the liability for gas imbalances from, the assignor, and (y) the assignee is not a known credit risk and the assignor has provided to the other parties evidence of the creditworthiness of assignee prior to the date that the applicable Transfer becomes effective taking into account the potential liability associated with the applicable gas imbalance. (A cash settlement pursuant to clause (ii) above may hereinafter be referred to as an "Optional Cash Settlement".) The parties acknowledge that a cash settlement may be made on more than one occasion pursuant to the terms of this GBA.

B. Notification of Proposed Transfer By Overproduced Party

When an Overproduced party elects to Transfer all or a portion of its Percentage Ownership (except to an Affiliate, or where the liability for prior period gas imbalances is assumed by an assignee), it shall give notice to all other parties to the Operating Agreement of its intended Transfer and the anticipated closing date. Each Underproduced party shall have fifteen (15) days from the receipt of such notice in which to elect to receive a cash settlement from the transferring party for the transferring party's share of overproduction allocable to the Underproduced party. Such election shall be made in writing and sent to the transferring party and Operator. An Underproduced party's election not to request a cash settlement at the time of Transfer by an Overproduced party shall not, subject to the provisions of Article VII.E, below, preclude said Underproduced party from sharing in cash settlement at Termination or from requesting a cash settlement upon subsequent Transfer by an Overproduced party.

C. <u>Quantity of Gas</u>

Within one hundred twenty (120) days after Termination, Operator shall provide a statement captioned "Final Quantity Statement" showing on a party-by-party basis the net unrecouped underproduction, the overproduction and the months and years in which such underproduction and overproduction occurred. Quantities of Gas for which settlement is due shall be determined by accruing the monthly overproduction and underproduction in the order of accrual of said overproduction and underproduction; i.e. makeup Quantities taken by an Underproduced party shall be applied against the oldest overproduction and underproduction then outstanding. In the event an Optional Cash Settlement is requested, Operator shall provide to the parties, within fifteen business days, an Interim Quantity Statement through the end of the last quarter for which Operator has production data, which shall contain similar information as would be contained within a Final Quantity Statement.

D. Pricing

1. For Overproduction Sold

The amount to be paid by an Overproduced party to an Underproduced party for such Underproduced party's Gas upon cash settlement shall, where the Overproduced party has sold the Gas to an unaffiliated third party, be based upon the price received by the Overproduced party at the time such overproduction occurred (the "price received") shall be the gross proceeds received, less the following:

- (a) production and/or severance taxes attributable to said Gas production paid by the Overproduced party;
- (b) royalties, if any, paid by the Overproduced party to an Underproduced party's royalty owner(s) to the extent said payments amounted to a discharge of said Underproduced party's royalty obligation;
- (c) any other payments made by the Overproduced party to obligees of the Underproduced party to the extent said payments by the Overproduced party were required by law and/or amounted to discharge of the obligations of the Underproduced party; and
- (d) all reasonable costs and expenses incurred to third parties in connection with the sale of said Gas; e.g., gathering, transportation, compression, storage, marketing and

similar fees.

In the event sales by the Overproduced party were made to an Affiliate and the price paid by such Affiliate was less than the prevailing market price in the area of the Well at the time of the sale, then the price received shall be deemed to be the Dominion Transmission Inc. South Point Index price found inside the Federal Energy Regulatory Commission's Gas Market Report for the applicable month of overproduction, calculated from a pricing bulletin published at the time such overproduction occurred, less those items set forth in a-d above (the "Adjusted South Point Index Price"). Any Underproduced party that is entitled to payment with respect to the applicable cash settlement may, based upon competent evidence, object that sales by the Overproduced party to an Affiliate were at a price less than the prevailing market price in the area of the Well at the time of the sale, in which case the Adjusted South Point Index Price shall be used to price such sales in accordance with the prior sentence.

2. For Overproduction Taken or Utilized and Not Sold

If there is no actual sale to establish the amount received by the Overproduced party because the Overproduced party took such Gas for its own purposes instead of selling it, the amount to be paid by an Overproduced party to an Underproduced party for such Underproduced party's Gas upon cash settlement shall be based upon the Adjusted South Point Index Price.

3. <u>Proceeds for Liquefiable Hydrocarbons Not Included</u>

The parties agree that the terms "price received by an Overproduced party" and "weighted average price received" shall not include any compensation received by a party for liquid hydrocarbons derived from processing its Gas in a Gas processing plant, unless the overproduction for which the Overproduced party is accounting was sold under a Percentage of Proceeds Sale.

E. <u>Calculation, Collection and Distribution of Payments</u>

1. For Cash Settlements at Termination

In the event of a cash settlement at Termination, within ten (10) days after receipt of the Final Quantity Statement from the Operator, each Overproduced party shall furnish to the Operator and the other parties a statement showing the price received for its overproduction on a monthly basis. Within ten (10) days after receipt of such pricing information from all parties, Operator shall submit to each party a statement showing the calculations and the total amount to be paid by each Overproduced party and to be received by each Underproduced party. Cash settlement shall be calculated on the "FIFO" accounting method.

Within twenty (20) days after receipt of said statement from Operator by an Overproduced party, the Overproduced party shall pay all amounts due and owing as reflected on such statement to the Underproduced parties. In the event that all sums due and owing are not paid by an Overproduced party to the applicable Underproduced parties within the time periods set forth in this provision, interest shall accumulate on such unpaid amounts as provided herein. The amount to be received by each Underproduced parties from all Overproduced parties among all Underproduced parties in proportion to the total sum to be received by each Underproduced party to each Underproduced parties. The amount to be paid by each Overproduced party to each Underproduced parties. The amount to be paid by each Overproduced party to each Underproduced parties. The amount to be paid by each Overproduced party to each Underproduced parties to each such Underproduced party among all Overproduced parties in proportion to the total sum to be total sum to be paid by apportioning the total amount to by paid by all Overproduced parties to each such Underproduced party among all Overproduced parties in proportion to the total sum to be paid by each Such Overproduced party among all Underproduced parties as a percent of the total sum to be paid by each Such Overproduced party among all Underproduced parties in proportion to the total sum to be paid by each Such Overproduced party among all Overproduced parties as a percent of the total sum to be paid by all Overproduced parties to each such Underproduced parties to all Underproduced parties as a percent of the total sum to be paid by all Overproduced parties to all Underproduced parties to all Underproduced parties to all Underproduced parties as a percent of the total sum to be paid by all Overproduced parties to all Underproduced

2. <u>Optional Cash Settlement Pursuant to Article VII.A.(ii) from an Overproduced party</u> <u>Who Seeks to Transfer an Interest</u>

In the event of a request for an Optional Cash Settlement by an Underproduced party pursuant to Article VII.A.(ii) from an Overproduced party who wishes to Transfer all or a portion of its Percentage Ownership, within twenty (20) working days after receipt of Operator's Interim Quantity Statement, the Overproduced party from whom cash settlement is sought shall provide to Operator a statement showing the price received for its overproduction on a monthly basis. Within ten (10) working days after receipt of such pricing information, Operator shall: (a) calculate the total amount due and owing by the Overproduced party and the total amount to be received by each Underproduced party requesting cash settlement based on the "FIFO" accounting method; and (b) provide the Overproduced party and each such Underproduced party with a statement showing the calculations and the total sum to be paid to said Underproduced party. The Overproduced party shall pay to each such Underproduced party the total amount due and owing as reflected in said statement within twenty (20) working days after receipt of said statement. In the event that all sums due and owing are not paid by an Overproduced party to the applicable Underproduced parties within the time periods set forth in this provision, interest shall accumulate on such unpaid amounts as provided herein.

The parties acknowledge that production and sales data may not be available for a brief period immediately preceding the closing date and prior to the effective date of the Transfer, and the transferring Overproduced party agrees to cash settle for any Gas produced during said period promptly after closing. In the event that said transferring Overproduced party for any reason fails to make all cash settlement payments required under this GBA, the transferee shall be obligated to make said payments.

3. Procedures Applicable to All Cash Settlements

For purposes of all price calculations the overproduction of each Overproduced party shall be apportioned to each Underproduced party in proportion to each Underproduced party's underproduction as a percent of the sum of the underproduction of all Underproduced parties. Overproduced volumes shall be matched to Underproduced volumes based on the order in which the overproduction and underproduction arose. The parties recognize that the months of overproduction by an Overproduced party may not coincide with the months of underproduction by an Underproduced party.

4. Amount Subject to Refund May Be Withheld.

In the event that any portion of the price actually received by an Overproduced party shall be subject to possible refund pursuant to rules and regulations issued by the Federal Energy Regulatory Commission ("FERC"), any state, administrative agency or successor governmental authority having jurisdiction, or any court order, the amount which may be ultimately required to be refunded by FERC or any other entity may be withheld without interest by the Overproduced party until such time as a final determination is made with respect thereto or until the party to whom payment is to be made provides a bond or other security to indemnify the party obligated to make such payments in form satisfactory to the latter.

F. Operator's Liability

Except as otherwise provided herein, Operator is obligated to administer the provisions of this GBA, but shall have no liability to the other parties for losses sustained or liability incurred which arise out of or in connection with the performance of Operator's duties hereunder except such as may result from Operator's gross negligence or willful misconduct.

VIII. OPERATING EXPENSES

The operating expenses are to be borne as provided in the Operating Agreement, regardless of whether all parties are selling or using Gas or whether the sales and use of each are in proportion to their Percentage Ownership.

IX. DELIVERABILITY TESTS

Nothing herein shall be construed to deny any party the right from time to time to produce and take or deliver to the purchaser its full share of the Gas production to meet the deliverability test required by its purchaser. Also, nothing herein shall: (a) require the Operator to produce a Gas Well in excess of its deliverability or the applicable maximum allowable rate where such rate is established by regulatory authority having jurisdiction from time to time; or (b) prevent an Operator from operating the Gas Well in order to conduct such tests as may be required by any applicable regulatory authority from time to time.

X. NOMINATIONS

For each party wishing to sell, utilize or dispose of Gas from a Gas Well subject to this GBA, Operator shall provide each party an initial nomination by well/delivery point(s) six working days prior to the beginning of each month. Operator shall provide each party a revised nomination by well/delivery point as necessary during the month to reflect any change in production. Allocation of gas production in any month in which the total nominations vary from the total production shall be by the Operator according to such procedures as Operator from time to time may reasonably establish. Each non-operator party agrees to indemnify Operator for any charges or penalties incurred because of over or underdeliveries as compared to its nominations, except where such charges or penalties are solely attributable to action taken by Operator in total disregard of such nominations.

XI. <u>TERM</u>

This GBA shall remain in full force and effect for so long as the Operating Agreement is in effect and thereafter until the gas balance accounts are settled in full.

XII. SUCCESSORS AND ASSIGNS

The terms, covenants and conditions of this GBA shall be binding upon and shall inure to the benefit of the parties hereto and their respective legal representatives, successors and assigns. The parties hereto agree to give notice of the existence of this GBA to any successor in interest and to make any transfer of any interest subject to the Operating Agreement, or any part thereof, expressly subject to the terms of this GBA.

XIII. <u>AUDITS</u>

Any Underproduced party shall have the right for a period of two (2) years after receipt of payment pursuant to a final accounting and after giving written notice to all parties, to audit an Overproduced party's accounts and records relating to such payment. The party conducting such audit shall bear its costs of the audit.

XIV. MISCELLANEOUS

A. No assignment shall relieve the assignor from any obligation to the other parties with respect to any overproduction taken by assignor to such assignment.

B. Any amount remaining unpaid under the GBA more than thirty (30) days after it is due shall bear interest (commencing the day after said payment was due) at the rate set forth in the Accounting Procedure (Exhibit C to the Operating Agreement).

C. Unless the context otherwise clearly indicates, words used in the singular include the plural, and the plural includes the singular.

D. Each party agrees to maintain the necessary records and documents to enable the gas balancing and cash settlements contemplated hereby to be made.

E. If any party hereto fails to timely provide to Operator the data required hereby to enable gas balancing statements and cash settlements to be promptly made, Operator, or any other party, without prejudice to other remedies, is authorized to audit the records of the non-providing party and such audit shall be at the expense of the audited party.

F. To the extent permitted by law, this GBA shall be in lieu of and take precedence over any law, statute, rule or regulation requiring Gas balancing, revenue sharing or marketing of Gas.

G. In the event that any party is in default of any payment required by this GBA or fails to

provide information required under this GBA, Operator is authorized--but not required--upon thirty (30) days notification to said defaulting party, without prejudice to any other remedies it may have, to curtail said party's Gas production from any and all Gas Wells subject to this GBA and such gas may be taken by the other parties in accordance with III.B. above.

H. In the event of a conflict between the terms of this GBA and the Operating Agreement, the terms of this GBA shall govern except where the conflict is between Article VI of this GBA and the Operating Agreement, in which event the Operating Agreement shall govern.

I. Nothing in this GBA shall be construed as precluding cash balancing at any time as may be agreed by the parties.

J. Nothing contained in this GBA shall require an Overproduced Party to pay to an Underproduced Party a sum which would be violative of any law, rule or regulation.

End of Exhibit "E"

STATE OF OHIO DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL AND GAS RESOURCES MANAGEMENT

In re the Matter of the Application of	:
Chesapeake Exploration, L.L.C., for	:
Unit Operation	:
	:
Smith Unit	:

PREPARED TESTIMONY OF LARA JAECKEL ON BEHALF OF CHESAPEAKE EXPLORATION, L.L.C.

Gregory D. Russell (0059718) Ilya Batikov (0087968) James A. Carr II (0084114) VORYS, SATER, SEYMOUR AND PEASE LLP 52 East Gay Street P. O. Box 1008 Columbus, Ohio 43216-1008 Tel. (614) 464-6400 E-mail: gdrussell@vorys.com ibatikov@vorys.com jacarr@vorys.com

Attorneys for Applicant, Chesapeake Exploration, L.L.C.

Exhibit 3

PREPARED DIRECT TESTIMONY OF LARA JAECKEL

1	INTE	RODUCTION.
2	Q1.	Please state your name and business address.
3	A1.	My name is Lara Jaeckel and my business address is 6100 N. Western Avenue,
4		Oklahoma City, Oklahoma 73118.
5	Q2.	Who is your employer?
6	A2.	Chesapeake Operating, L.L.C., which is a subsidiary of Chesapeake Energy
7		Corporation and an affiliate of Chesapeake Exploration, L.L.C. ("Chesapeake").
8	Q3.	What is your position with Chesapeake?
9	A3.	I am a Geologist I with Chesapeake's Appalachia Business Unit.
10	Q4.	Please describe your professional responsibilities at Chesapeake.
11	A4.	My general responsibilities include: exploring for new accumulations of oil and gas
12		in the on-shore United States, evaluating prospects in different formations in the
13		Appalachian Basin, planning and monitoring horizontal drilling of wells, and using
14		geology to help optimize well performance. Additionally, as an operations geologist,
15		I monitor drilling reports and well logs from active drilling of wells to ensure the
16		wellbore stays in the target formation.
17	Q5.	Starting with college, would you describe your education background?
18	A5.	I have a Bachelor of Science degree in Earth Science, with a concentration in
19		Geology, from George Mason University (2010), and a Master of Science Degree in
20		Geology from Oklahoma State University (2016).
21	Q6.	Would you briefly describe your professional experience?
22	A6.	I have about 7 years of petroleum industry experience as a mudlogger for Horizon
23		Mudlogging and as a trainer, geosteerer, intern, and Geologist I with Chesapeake. As
24		a mudlogger and Geologist I, I worked the Appalachian Basin in the United States.
25		Specifically, as a mudlogger, I gathered and analyzed cuttings and gas samples in the
26		Marcellus play. As a Geologist I, I primarily work on operations and development
27		geology with a focus on optimizing and producing Chesapeake's Utica Shale assets
28		in Ohio as well as creating geological maps and prospecting evaluations for other
29		formations in the Appalachian Basin. As a geosteerer, I monitored and correlated
30		over 400 wells across Chesapeake Energy's assets.

- 1 Q7. Are you a member of any professional associations? 2 A7. Yes. I am an active member of the Women in Energy Network. 3 **Q8**. Are you familiar with Chesapeake Exploration, L.L.C.'s Application for Unit 4 **Operations with respect to the Smith Unit?** 5 A8. Yes. Could you please describe the Smith Unit, in terms of its general location, 6 Q9. 7 surface acreage, and subsurface depth? 8 A9. The Smith Unit consists of sixty seven (67) separate tracts of land totaling 9 approximately 1,252.637414 acres in Cadiz, Nottingham, and Stock Townships, Harrison County, Ohio. Exhibit LJ-1 to this Exhibit 3 shows the geographical 10 location of the proposed unit in Harrison County and in relation to surrounding 11 12 counties and townships. The Unitized Formation described in the Application is the
- subsurface portion of the Smith Unit at a depth located from 50' above the top of the
 Utica Shale to 50' below the base of the Point Pleasant formation.
- 15 UNITIZED FORMATION IS PART OF A POOL.
- 16 Q10. In geological terms, what does "pool" mean in connection with unitization?
- A10. A pool is generally understood to be a common source of supply of hydrocarbons inpores of a rock that yields production on drilling.
- Q11. Ohio Revised Code § 1509.01(E) defines the term "pool" as follows: "Pool" means an underground reservoir containing a common accumulation of oil or gas, or both, but does not include a gas storage reservoir. Each zone of a geological structure that is completely separated from any other zone in the same structure may contain a separate pool." Does this definition of "pool" apply to the Unitized Formation underlying the proposed Smith Unit?
- A11. Yes. Because it is part of a larger hydrocarbon pool, an equal accumulation of
 hydrocarbons are expected to be in place throughout the Unitized Formation
 underlying the Smith Unit. Furthermore, the hydrocarbon pool would extend beyond
 the currently defined unit boundaries in each direction, North, South, East, and West.
 Interpretation of data indicates that the Unitized Formation has consistent
 characteristics across the Smith Unit. Geological mapping suggests that the Unitized
 Formation constitutes a common source of supply, meaning any portion of the Smith

1 Unit would be geologically equivalent to another portion of the Smith Unit. Stated 2 another way, the formation shows very similar traits from one well location to the 3 next, which suggests the production is likely to be similar from all wells drilled in 4 the unit. Therefore, the Unitized Formation underlying the Smith Unit qualifies as 5 part of a pool.

6

Q12.

7

in order to assess the geologic characteristics of a potential shale play?

Generally speaking, what sources of data would geologists review and analyze

8 A12. They would generally review wireline well log data and core data, including both
9 public and proprietary logs that the company may have in its possession.

10 **Q13.** How is this data obtained, and what is it meant to show about the formation?

A13. Chesapeake geologists have used public well logs and recently drilled Chesapeake
well logs to pick rock formation tops across the basin. After picking formation tops,
such as the Queenston Shale, Utica Shale, Point Pleasant formation, and Trenton
Limestone, maps are made to show the thickness of each formation across Ohio. This
mapping indicates equal thickness of the Utica Shale and Point Pleasant formation
over the Smith Unit. The industry jargon has come to call this entire interval the
"Utica Formation," and in our testimony we will often adopt this naming convention.

Q14. What data sources did you use in determining the geologic features of the Smith Unit?

A14. Wireline well log data and Gamma Ray data, which I used to compile Exhibits LJ-1
and LJ-2 to this Exhibit 3.

22 Q15. What do these exhibits tell us about the Smith Unit?

Exhibits LJ-1 and LJ-2 to this Exhibit 3 are a map and cross section that show 23 A15. wireline well logs. The logs are annotated with formation names. The cross section 24 offsetting the Smith Unit suggests approximately equal thickness of the Utica 25 26 Formation. The three-well cross section displays wireline Gamma Ray data on a 0-27 200 API scale, Resistivity data on a 0.2-2,000 OHMM scale, and Bulk Density data on a 2.00-3.00 g/cm³ scale. As shown on Exhibit LJ-1, one of the three wells is 28 located approximately 4.6 miles west of the Smith Unit pad site, one well is located 29 approximately 1.44 miles east of the Smith Unit pad site, and the other well is 30 31 approximately 7.1 miles northeast of the Smith Unit pad site. Interpreted formation

1		tops based on Gamma Ray, Resistivity and Bulk Density electric log curves are
2		shown on the cross section in Exhibit LJ-2. Because of the location of the three
3		evaluation wells and limited variation of the log data across the three wells, as
4		displayed on the cross section, the log data indicates that the Utica Formation is
5		predicted to have similar characteristics and be of uniform thickness across the Smith
6		Unit.
7	Q16.	What is the approximate depth of the Unitized Formation under the proposed
8		Smith Unit?
9	A16.	The top of the Unitized Formation is expected to be encountered around 8,074 feet
10		True Vertical Depth. The base of the Unitized Formation is expected to be
11		encountered around 8,357 feet True Vertical Depth.
12	Q17.	Which formations are included in the Unitized Formation underlying the
13		proposed Smith Unit?
14	A17.	The Unitized Formation described in the Application is the subsurface portion of the
15		Smith Unit at a depth located from 50' above the top of the Utica Shale to 50' below
16		the base of the Point Pleasant formation.
17	Q18.	How and why were these formations chosen?
18	A18.	Publicly available testimony and data suggest the fractures are contained within the
19		Unitized Formation.
20	ALLO	DCATION METHODOLOGY
21	Q19.	Are you generally familiar with the manner in which unit plans allocate
22		production and unit expenses to parcels within a unit?
23	A19.	Yes.
24	Q20.	You testified earlier that the Unitized Formation underlying the proposed Smith
25		Unit has a relatively uniform thickness and reservoir quality. Given those
26		characteristics, what would be an appropriate method of allocating production
27		and unit expenses among the parcels contained in the Smith Unit?
28	A20.	An appropriate method of allocation would be on a surface-acreage basis. The
29		formation thickness and reservoir quality of the Utica Formation, and thus the
30		Unitized Formation, is expected to be consistent across the proposed Smith Unit. I
31		do not expect any substantial variations across the proposed unit. Therefore, there is

- 1 no geological reason to allocate by a method other than on a surface-acreage basis.
- 2 Q21. Is this method used elsewhere?
- 3 A21. Yes. In fact, this method is used throughout the industry.
- 4 Q22. What method of allocation is utilized in the unit plan for the Smith Unit?
- 5 A22. Based on the testimony of Robert Highsaw attached to the Application, the method
- 6 of allocation utilized is on a surface-acreage basis.
- 7 Q23. Does this conclude your testimony?
- 8 A23. Yes.

Exhibit LJ-1

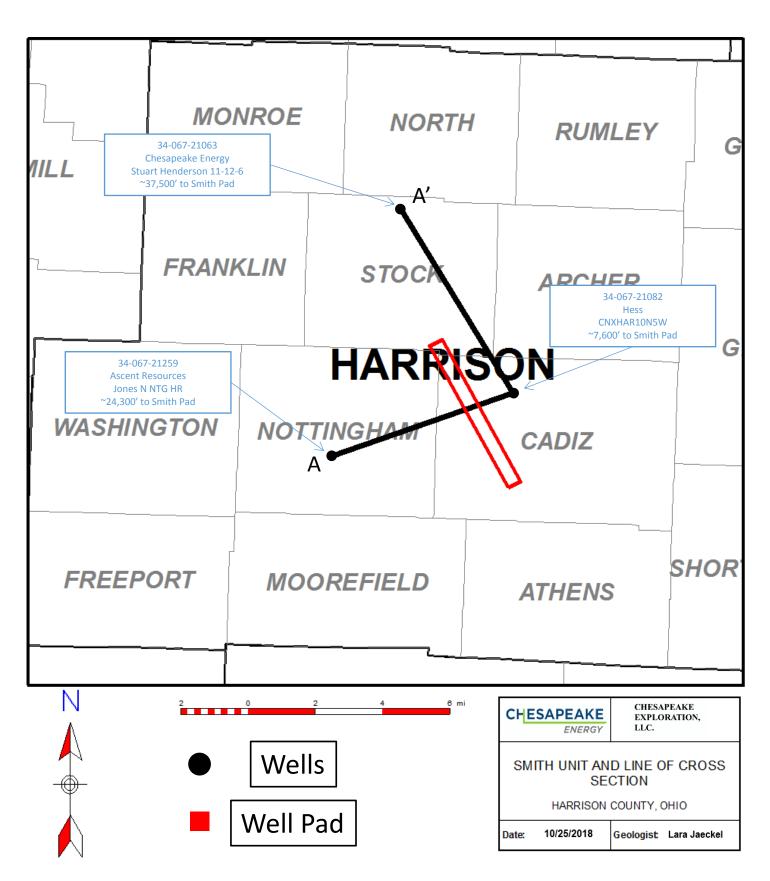
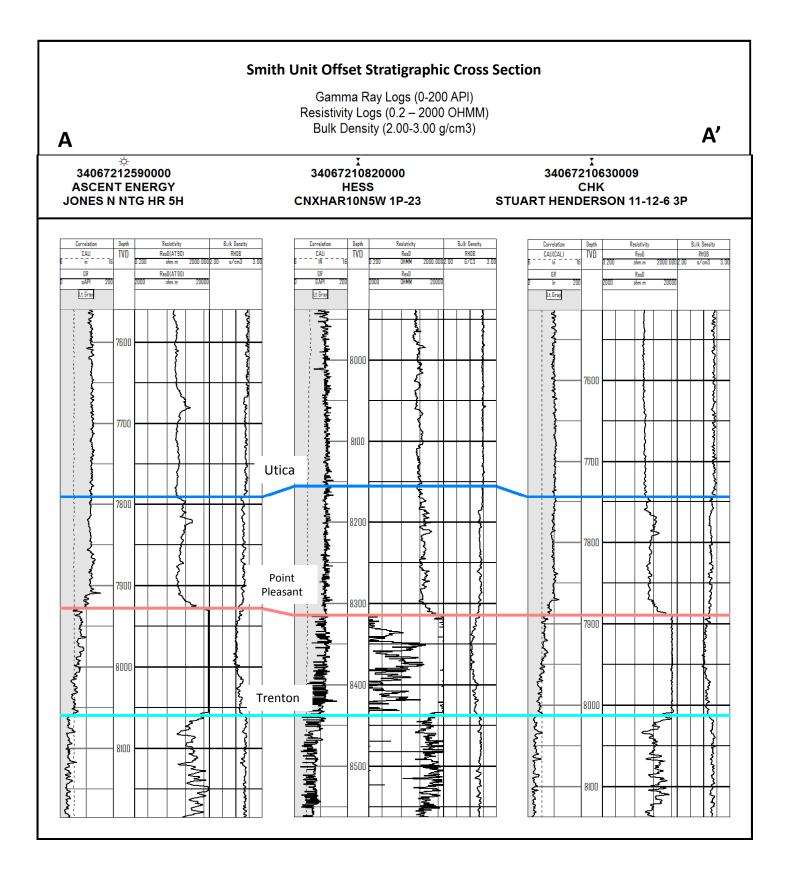


EXHIBIT LJ-2



STATE OF OHIO DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL AND GAS RESOURCES MANAGEMENT

In re the Matter of the Application of	:
Chesapeake Exploration, L.L.C., for	:
Unit Operation	:
	:
Smith Unit	:

PREPARED TESTIMONY OF ZULIBUKAER SHAWUTI ON BEHALF OF CHESAPEAKE EXPLORATION, L.L.C.

Gregory D. Russell (0059718) Ilya Batikov (0087968) James A. Carr II (0084114) VORYS, SATER, SEYMOUR AND PEASE LLP 52 East Gay Street P. O. Box 1008 Columbus, Ohio 43216-1008 Tel. (614) 464-6400 E-mail: gdrussell@vorys.com ibatikov@vorys.com jacarr@vorys.com

Attorneys for Applicant, Chesapeake Exploration, L.L.C.

Exhibit 4

PREPARED DIRECT TESTIMONY OF ZULIBUKAER SHAWUTI

1 **INTRODUCTION.**

2 Q1. Please introduce yourself.

A1. My name is Zulibukaer Shawuti and my business address is 6100 N. Western Avenue,
Oklahoma City, Oklahoma 73154. I am a Reservoir Engineer with Chesapeake
Operating, L.L.C., which is a subsidiary of Chesapeake Energy Corporation and an
affiliate of Chesapeake Exploration, L.L.C. ("Chesapeake").

7

Q2. What is the purpose of your testimony today?

A2. I am testifying in support of the Application of Chesapeake Exploration, L.L.C., for Unit
Operation filed with respect to the Smith Unit. My testimony addresses the following:
(1) that unit operations for the Smith Unit are reasonably necessary to increase
substantially the recovery of oil and gas and protect the correlative rights of the mineral
owners within the unit, and (2) that the value of the estimated additional recovery, due to
unit operations, exceeds the estimated additional cost incident to obtaining that recovery.

14 Q3. Can you summarize your educational experience for me?

A3. I have a Bachelor of Science degree in Petroleum Engineering from the Colorado School
of Mines in Golden, Colorado (2014).

17 Q4. Are you a member of any professional associations?

18 A4. I am a member of the Society of Petroleum Engineers.

19 Q5. How long have you been a Reservoir Engineer for Chesapeake?

20 A5. I have been a reservoir engineer at Chesapeake for approximately two years.

21 Q6. What other work experiences have you had?

- A6. Prior to working for Chesapeake as a reservoir engineer, I held various positions within the company starting as a field engineer in 2014 and then as a petrotech in 2015. In all of
- 24 my positions, I have worked in the Utica Shale play.
- 25 Q7. What do your job responsibilities entail?
- A7. I am responsible for providing advice and assistance with determining the efficient
 development of Chesapeake's Utica assets. This includes best estimates of reserves and
 appropriate economic well spacing of the Utica Shale by optimizing oil and gas recovery
 in a responsible manner. Providing engineering testimony for the Utica Shale play in
 Ohio is part of that responsibility.

1 **Q8.** How do you do that?

A8. Using and reviewing accepted engineering practices, I help in the determination of
 reasonable reserve estimates from current and future wells. Some of these practices
 include volumetric analysis, decline curve analysis, and analysis using analytical
 models.

6 Q9. Did you perform any analysis to support Chesapeake's application for unitization
7 for the proposed Smith Unit?

8 A9. Yes.

9 Q10. What sort of analysis did you perform?

10 A10. Using some of the methods I previously noted, I analyzed analogous wells in the area to 11 estimate the potentially recoverable hydrocarbons assuming 14,428, 14,493, 8,999, and 12 8,930 foot unitized lateral lengths. I also evaluated the potential hydrocarbon recovery 13 absent unitization, observing regulatory setbacks. Finally, I calculated an estimated 14 future cash flow associated with the hydrocarbons using current SEC pricing as well as a 15 10% discounted future cash flow.

16 Q11. Why is Chesapeake looking at drilling horizontal wells?

17 A11. The permeability of unconventional resource plays is so low (in nano-darcy units (nd), 18 i.e. $1.0 \ge 10^{-9}$ darcies) that the hydrocarbons cannot be economically produced without 19 the use of horizontal drilling, coupled with massive stimulation treatments (i.e. hydraulic 20 fracturing). Horizontal drilling is the predominant method used to develop shale 21 formations such as the Utica Shale.

Q12. Turning specifically to the Smith Unit, have you made an estimate of the production
you anticipate from the proposed unit's operations?

A12. Yes, assuming an order authorizing unit operations is granted, based on 14,428, 14,493,
8,999, and 8,930 foot lateral lengths, I have estimated the gross recoverable gas from the
proposed Smith Unit to be about 43.9 BCFe.

27 Q13. How did you make those estimates?

A13. We used well performance and production data from the wells in the vicinity to evaluate the historical performance for this area. Exhibit ZS-1 to this Exhibit 4 is a list of nearby wells that were used for comparison and normalization based on completed lateral length.

1 Q14. Once you had that data from the other Utica Shale wells, what did you do with it? 2 A14. I combined those wells' performance with volumetric analysis, decline curve analysis, and analytical modeling to estimate the well performance for this portion of the play. 3 4 Results were then scaled to our anticipated (assuming an order authorizing unitization is 5 granted) 14,428, 14,493, 8,999, and 8,930 foot lateral lengths to determine well 6 performance and well economics. 7 Why do you qualify your calculations as an estimate? Q15. 8 A15. There is always the possibility that the petrophysical and geological data used from offset wells may be slightly different than the characteristics of the productive horizon at 9 this location. However, the volumetric calculations of gas in place should be a 10 11 reasonably certain estimate in this statistical unconventional play. 12 Q16. In your professional opinion, would it be economic to develop the Smith Unit using traditional vertical drilling? 13 14 A16. No. 15 Q17. Are the estimates that you made based on good engineering practices and accepted methods in the industry? 16 17 A17. Yes. 18 Q18. Do you have the calculations you performed? 19 A18. The results of my calculations are attached to this prepared testimony as Exhibit ZS-2 to 20 this Exhibit 4. Can you summarize what your calculations show? 21 Q19. 22 A19. The results of my prior stated methodology are: 1) Assuming an order authorizing unit operations is granted, the capital expenditure 23 (CAPEX) to develop the unitized project is \$42.9 million. Potential recoverable 24 natural gas from the unitized project is 43.9 BCFe, the undiscounted value of the 25 26 future cash flows (using current SEC pricing of \$2.92/Mcf (no btu adjustments) and 27 \$57.67/bo) is \$49.7 million, and the discounted present value is \$18.1 million at a 10 percent discount rate. 28 29 2) If an order authorizing unit operations is not granted, no wells will be drilled because 30 development of the non-unitized project would result in a net loss to Chesapeake. The 31 capital expenditure (CAPEX) to develop the non-unitized project is \$16.4 million.

3

Potential recoverable natural gas from the non-unitized project is 5.5 BCFe, the undiscounted value of the future cash flows (using current SEC pricing of \$2.92/Mcf (no btu adjustments) and \$57.67/bo) is negative \$5.8 million, and the discounted present value is negative \$7.3 million at a 10 percent discount rate.

5 Q20. Can you briefly explain why you are using current SEC pricing in this application?

A20. Every company has its own ideas of economic indicators by which it decides to invest
in an opportunity or not. Current SEC pricing, un-escalated, eliminates all the issues
associated with corporate decision trees and reduces the evaluation of corporate assets,
and projects, to a single deterministic standard. We have no means to accurately predict
future oil and gas prices. What we do know, and can verify, is the price we currently get
and historically received for each barrel of oil and each MMbtu of gas.

Q21. Based on this information and your professional judgment, are unit operations
 reasonably necessary to increase substantially the ultimate recovery of oil and gas?

A21. Yes. Without unitization, there is no recovery of natural gas because the non-unitized
project results in a net loss to Chesapeake. If an order authorizing unit operations is
granted, an estimated 43.9 BCFe of natural gas associated with the proposed four wells
would be produced.

Q22. Based on this information and your professional judgment, does the value of the estimated additional recovery of hydrocarbons from the unitized project exceed its estimated costs?

- A22. Yes. The capital expense is \$42.9 million for the unitized project compared to \$16.4
 million for the non-unitized project. The net present value for the unitized project is
 \$18.1 million compared to negative \$7.3 million for the non-unitized project. Because
 the non-unitized project would result in a net loss to Chesapeake, the proposed Smith
 Unit would not be developed absent an order authorizing unit operations.
- 26 Q23. Does this conclude your testimony?

27 A23. Yes.

4

Exhibit ZS-1

Smith Unit

Smith Unit- Offset Wells Used for Analogy

WELL NAME	API	UNT NAME	START DATE	LATERAL LENGTH (FT)
DODSON 28-11-5 10H	3406721292	DODSON	8/27/2014	7471
DODSON 28-11-5 6H	3406721291	DODSON	9/7/2014	7347
DODSON 28-11-5 8H	3406721092	DODSON	9/2/2014	7130
GARVEY 25-12-5 3H	3406721437	GARVEY	3/16/2016	4778
GARVEY 25-12-5 6H	3406721531	GARVEY	2/10/2018	8764
GARVEY 25-12-5 7H	3406721532	GARVEY	2/11/2018	8758
GARVEY 25-12-5 8H	3406721533	GARVEY	2/12/2018	8765
RH BSA S NTG HR 2H	3406721289	RH BSA S NTG HR	9/22/2015	5017
RH BSA S NTG HR 4H	3406721328	RH BSA S NTG HR	9/22/2015	5593
RH BSA S NTG HR 6H	3406721329	RH BSA S NTG HR	9/22/2015	6241
RH BSA S NTG HR 8H	3406721330	RH BSA S NTG HR	9/25/2015	6353
ROGERS 27-12-5 3H	3406721194	ROGERS	10/8/2014	7322
YODER 33-12-5 6H	3406721326	YODER NORTH	11/25/2014	6825
YODER 33-12-5 8H	3406721327	YODER NORTH	11/26/2014	7272
YODER NORTH 33-12-5 1	3406721297	YODER NORTH	11/29/2014	5871
YODER NORTH 33-12-5 3	3406721290	YODER NORTH	12/5/2014	5724

Exhibit ZS-2

Smith Unit – Economic/Reserve Summary

UNITIZED greater than 30% ROR Annual 5 yrs. Cost to Lateral Potential Gas Length (ft) Recovery, BCFe Well Name Smith 1H Smith 3H Smith 6H Smith 8H PV0 (MM\$) PV10 (MM\$) Capital (MM\$) Operate (MM\$)¹ \$17.1 \$17.3 \$7.7 \$7.6 **\$49.7** 14,428 14,493 \$0.12 \$0.12 13.6 13.6 \$6.7 \$6.8 \$12.2 \$12.3 8,999 8,930 46,850 8.4 8.3 43.9 \$2.3 \$2.3 **\$18.1** \$9.2 \$9.2 **\$42.9** \$0.09 \$0.09 **\$0.42**

NON-UNITIZED Would not be drilled

Well Name	Lateral Length (ft)	Potential Gas Recovery, BCFe	PV0 (MM\$)	PV10 (MM\$)	Capital (MM\$)	Annual 5 yrs. Cost to Operate (MM\$) ¹
Smith 1H	2,460	1.9	-0.8	-1.3	4.4	\$0.06
Smith 3H	3,820	3.2	1.3	-0.3	5.1	\$0.07
Smith 6H	520	0.2	-3.1	-2.8	3.5	\$0.04
Smith 8H	385	0.2	-3.2	-2.9	3.4	\$0.03
Abbreviated Totals		5.5	-\$5.8	-\$7.3	\$16.4	\$0.20

¹ Average Annual 5 yrs. cost to operate includes lease operating expenses, overhead expenses

			Increases due
	Unitized	Non-Unitized	to Unitization
Total Capital (MM\$) ¹	\$42.9	\$16.4	\$26.5
Anticipated Recoverable Gas, BCFe ²	43.9	5.5	38.4
Estimated PV10 of Project Cash Flow, (MM\$) @ SEC Prices ³	\$18.1	-\$7.3	\$25.4
One of One by Flow of Decise of (Alana and in constant)	C 40 7	05.0	0000

 Gross Cash Flow of Project (\$MM undiscounted)
 \$40.1
 \$47.7
 \$5.8
 \$2

 ¹ Capex includes all capital expenditures necessary to initially drill, complete, equip, turn-in-line (put gas to sales)
 ²
 BCFe (billion cubic feet equivalent) is Equivalent Liquids based on 6mcf/bbl liquid (condensate volumes)
 ³
 Calculations based on 100% Working Interest and 81% Net Revenue Interest with October, 2018 Effective Date

 PV is Present Value /
 MM\$ is million dollars / SEC is Securities and Exchange Commission

STATE OF OHIO DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL AND GAS RESOURCES MANAGEMENT

In re the Matter of the Application of	:
Chesapeake Exploration, L.L.C., for	:
Unit Operation	:
-	:
Smith Unit	:

PREPARED TESTIMONY OF ROBERT HIGHSAW ON BEHALF OF CHESAPEAKE EXPLORATION, L.L.C.

Gregory D. Russell (0059718) Ilya Batikov (0087968) James A. Carr II (0084114) VORYS, SATER, SEYMOUR AND PEASE, LLP 52 East Gay Street P. O. Box 1008 Columbus, Ohio 43216-1008 Tel. (614) 464-6400 E-mail: gdrussell@vorys.com ibatikov@vorys.com jacarr@vorys.com

Attorneys for Applicant, Chesapeake Exploration, L.L.C.

Exhibit 5

PREPARED DIRECT TESTIMONY OF ROBERT HIGHSAW

1	INTF	RODUCTION.
2	Q1.	Please state your name and business address.
3	A1.	My name is Robert Highsaw and my business address is 6100 N. Western Avenue,
4		Oklahoma City, Oklahoma 73118.
5	Q2.	Who is your employer?
6	A2.	Chesapeake Operating, L.L.C., which is a subsidiary of Chesapeake Energy
7		Corporation and an affiliate of Chesapeake Exploration, L.L.C. ("Chesapeake").
8	Q3.	What is your position with Chesapeake?
9	A3.	My official title at Chesapeake is Staff Landman.
10	Q4.	Please describe your professional responsibilities at Chesapeake.
11	A4.	I am responsible for assisting with our oil and gas development program in eastern
12		Ohio in Chesapeake's Appalachia business unit.
13	Q5.	Starting with college, please describe your educational background.
14	A5.	I hold a Bachelor of Arts from the University of Oklahoma and a Juris Doctor from
15		University of Oklahoma College of Law.
16	Q6.	Please briefly describe your professional experience.
17	A6.	I have been continuously employed by Chesapeake since 2011, and I have spent the
18		majority of my 7+ years at Chesapeake assisting with development of
19		Chesapeake's Utica Shale asset. I have assisted with development programs in
20		Carroll, Harrison, and Jefferson Counties, and I have a wide variety of experience
21		with the asset.

22 **Q7.** What do you do as a Landman?

A7. As a Staff Landman, I am responsible for managing the company's leasehold
position in a specific Area of Responsibility (or AOR). I help facilitate
development of the Utica Shale play through lease acquisitions, sales, and
negotiations, joint operation or leasehold trade negotiations, title review, unit
formation, wellbore planning, various permitting activities, drilling wells as a
landman, and other related operational activities.

29 Q8. Are you a member of any professional associations?

30 A8. Yes. The American Association of Professional Landmen and the Oklahoma Bar

1 Association.

2	Q9.	Were you involved in the preparation of Chesapeake Exploration, L.L.C.'s
3		Application for unitization with respect to the Smith Unit?

- 4 A9. I was. I am also familiar with the efforts to form and develop the Smith Unit and 5 the Unit Plan that Chesapeake is proposing.
- 6
 - Can you generally describe the Smith Unit? **Q10.**
- 7 The Smith Unit consists of sixty-seven (67) separate tracts of land totaling A10. 8 approximately 1,252.637414 acres in Cadiz, Nottingham, and Stock Townships, 9 Harrison County, Ohio.
- 10 EFFORTS MADE BY CHESAPEAKE TO LEASE UNIT TRACTS.

11 What percentage of the total acreage of the Smith is represented by the oil and **Q11.** 12 gas rights held by Chesapeake and the other committed working interest owners (excluding tracts that are either partially leased or partially leased to 13 14 uncommitted working interest owners)?

15 A11. Chesapeake and the other committed working interest owners control more than 16 78% of the working interest in the unit.

17 Q12. Why was Chesapeake not able to acquire the oil and gas rights to all of the 18 acreage in the proposed unit?

19 A12. To date, Chesapeake is still engaged in ongoing leasing efforts to fully lease up the 20 unit. Chesapeake employees or representatives are still actively engaged in trying to 21 lease all remaining unleased parcels. Chesapeake is confident it has made fair 22 offers to all unleased mineral owners within the proposed unit based upon many 23 factors including the level of competition for new leases in the area and the amount 24 of primary term needed to develop the proposed unit. Negotiations are still ongoing 25 concerning many of the tracts listed on Exhibit A-3 to the Unit Operating 26 Agreement. Chesapeake is also still engaged in efforts to voluntary acquire or 27 include all uncommitted working interest in development.

Have you prepared an affidavit detailing Chesapeake's efforts to obtain a lease 28 Q13. 29 from the unleased mineral owners in the proposed unit and secure the approval of uncommitted working interest owners in the proposed unit? 30

This Exhibit 5 includes Exhibit RH-1, which highlights Chesapeake's leasing 31 A13.

- 1 efforts on all remaining unleased tracts of land as of the date of this filing as well as
- 2 its efforts to secure the approval of uncommitted working interest owners.

3 Q14. If the unleased owners in the unit were to ask to lease with Chesapeake, would 4 Chesapeake be likely to agree?

5 A14. Yes. Chesapeake will always be willing to lease on reasonable, fair market value
6 terms for the geographic area in which Chesapeake's proposed unit is located.

Could you describe the location of the leased and unleased tracts within the

7 8

Q15.

Smith Unit?

- 9 Yes. Exhibit RH-2 to this Exhibit 5 is a colored plat showing each of the tracts in A15. 10 the Smith Unit, along with the wellbores in same. The tracts highlighted in yellow 11 indicate that Chesapeake has acquired the necessary rights to fully develop the oil 12 and gas thereunder. The tracts highlighted in red indicate that they are either 13 unleased or partially unleased. The tracts highlighted in green indicate that they are 14 leased to uncommitted working interest owners. Further, the cross-hatched green 15 and olive portions of RH-3 depict the approximate 943.16597 acres of leasehold that is currently stranded from development due to the aforementioned unleased 16 17 and/or uncommitted leasehold tracts within the proposed Smith Unit.
- 18 UNIT PLAN PROVISIONS.

19 Q16. Would you describe generally the development plan for the Smith Unit?

- 20 Chesapeake plans to develop the proposed Smith Unit from a centrally-located pad A16. 21 site, which would facilitate drilling four (4) planned horizontal wells in the Smith 22 Unit. The proposed Smith Unit is configured to accommodate four (4) total horizontal wellbores, with projected lateral lengths ranging from approximately 23 14,493 feet to 8,930 feet (for an average length of 11,712.5 feet) once regulatory 24 setbacks are taken into consideration. These planned wellbores will be drilled to 25 26 the northwest and southeast from the aforementioned pad site after kick outs from 27 the planned centrally located pad site. If an order authorizing unit operations is granted, and depending upon rig availability and other logistical considerations, 28 29 Chesapeake intends to drill the initial well in the Smith Unit beginning sometime in 30 Q2 or Q3 2019.
- 31

Q17. Can you describe the location of the proposed wellbores within the Smith

1 **Unit?**

A17. Yes, the above-referenced Exhibit RH-2 depicts the configuration I just mentioned.
As you can see, it illustrates that we anticipate using a centrally located surface
location to develop the proposed Smith Unit to drill four (4) planned wells,
estimated to range from 14,493 feet to 8,930 feet in lateral length, in the unit area to
the northwest and southeast. I have also attached to my testimony an aerial map
illustrating the pad location, identified as Exhibit RH-4.

Q18. Do you know with certainty today where the drilling and completion equipment will be located on the pad?

A18. We have surface rights derived from a leased party for the area indicated on Exhibit
 RH-4 to this Exhibit 5. To be clear, Chesapeake has no plans to utilize the surface
 of any potential unleased mineral owner.

13 Q19. What are the benefits to this type of unit development?

14 A19. Developing the proposed Smith Unit in the manner previously described not only 15 protects the correlative rights of the unit participants, but has substantial economic and environmental benefits as well. Drilling, completing, and producing multiple 16 17 wells from a single surface location significantly reduces the impact on the surface. 18 Only one access road is constructed instead of several, the need for production 19 equipment at multiple locations is eliminated, traffic to and from the area is significantly reduced, and it allows development of acreage that might not 20 21 otherwise be developed with traditional drilling methods due to surface limitations, 22 such as local water features and residential and commercial activities. Development through vertical wells would not be practicable for two reasons: (1) 23 because unconventional reservoirs cannot be produced at economic flow rates or 24 25 volumes with vertical drilling (see Exhibit 4 to the Application); and (2) because 26 vertical wells, even if they were practical, require numerous surface locations 27 spaced at consistent intervals, which become impractical in areas where the surface 28 is already occupied with other uses (such as residential and commercial activities, 29 agricultural use, existing surface waters, and, occasionally, timber activities). In 30 contrast, horizontal drilling is both economically practical and physically viable, 31 since it allows operators to locate surface operations on strategically located

1 properties, which can serve as centralized access points used to develop mineral 2 acreage underlying otherwise inaccessible lands. 3 **O20.** So is it fair to say that the benefits of this type of development are substantial? 4 A20. Yes, the type of development planned by Chesapeake for the proposed Smith Unit, 5 and its adjacent units, offers significant benefits not only to the operator, but also to 6 the landowners in the unit and the surrounding area. 7 Are you familiar with the Unit Plan proposed by Chesapeake for the Smith Q21. 8 Unit? 9 A21. Yes. The Unit Plan proposed by Chesapeake is set out in two documents attached 10 to the Application – the Unit Agreement, which establishes the non-operating 11 relationship between the parties in the proposed Smith Unit; and a Unit Operating 12 Agreement and related exhibits, which establish how the proposed Smith Unit is 13 going to be explored, developed, and produced. 14 Q22. Let's turn first to the Unit Agreement, marked as Exhibit 1 to the Application. 15 Would you describe briefly what it does? 16 A22. Yes. The Unit Agreement in effect combines the oil and gas rights in the proposed 17 Smith Unit so that they can be uniformly developed as if they were part of a single 18 oil and gas lease. 19 Are mineral rights to all geological formations combined under the Unit Q23. 20 **Agreement?** 21 No. The Unit Agreement only unitizes the oil and gas rights located fifty feet A23. 22 above the top of the Utica Shale to fifty feet below the base of the Point Pleasant formation, defined in the Agreement as the "Unitized Formation." 23 Q24. How will production proceeds from the Smith Unit be allocated among royalty 24 25 interest owners and working interest owners in the Unit? 26 A24. On a surface-acreage basis. Under Article 4 of the Unit Agreement, every tract is 27 assigned a tract participation percentage based on surface acreage and those percentages are shown on Exhibit A-2 to the Unit Operating Agreement. Article 5 28 29 of the Unit Agreement allocates production based on that tract participation. 30 Q25. Why use a surface-acreage basis as the method of allocation? 31 A25. Based on the testimony of Lara Jaeckel attached to the Application as Exhibit 3, a

surface-acreage basis is an appropriate method of allocation because the formation
 thickness and reservoir quality of the Unitized Formation is expected to be
 consistent across the unit.

4 Q26. Would you go through an example from Exhibit A-2 to the Unit Operating 5 Agreement to illustrate how a surface-acreage basis would be applied to the 6 Smith Unit?

7 Yes. If you look at the column on Exhibit A-2 to the Unit Operating Agreement A26. 8 entitled "Surface Acres in Unit," it shows, on an owner basis, the number of surface 9 acres in each tract of land included within the Smith Unit. The adjacent column on 10 Exhibit A-2 shows the related tract participation, which is calculated by dividing 11 those surface acres by the total number of surface acres in the unit. So, for 12 example, if you look at Tract Number 33 on page 2 of Exhibit A-2, it shows that 13 this particular tract is owned of record by Richard L. Smith and Bonnie L. Smith, 14 and contains 76.609863 surface acres in the 1,252.637414-acre Smith Unit, which 15 equates to a tract participation of approximately 6.115885% (76.609863 ÷ 1,252.637414). 16

17 Q27. What does that mean in terms of production allocated to that particular tract?

A27. It would mean this particular tract owned of record by the Smiths would have
allocated to it roughly 6.115885% of all production from the proposed Smith Unit,
which would then be distributed based on the terms of the lease or other relevant
document affecting ownership to production proceeds from the tract.

Q28. Does it work the same way for an unleased mineral interest, that is, for the
tract of a person or entity which did not lease its property in the unit?

24 A28. Yes. If you take a look at Exhibit A-3 to the Unit Operating Agreement, you will 25 see that it lists, among other things, the surface acreage, decimal interest in tract, 26 and tract participation of each unleased parcel in the proposed unit. In the sixty-27 seven (67) tract Smith Unit, Tract 21 is one of the few unleased tracts in the unit area and illustrative of how production would be allocated. The minerals under this 28 29 tract are currently owned of record by the Stanley R. Bittinger and Sheila K. 30 Bittinger, and there are 21.194300 surface acres of Tract 21 within the Smith Unit. 31 If the unleased acreage of Tract 21 (21.194300 acres) is divided by the full surface

6

acreage comprising the proposed Smith Unit (1,252.637414 acres), the result gives
 a tract participation of approximately 1.691974% for the Bittingers. The Bittingers
 would then receive revenue based upon this percentage and in accordance with the
 terms of any potential unitization order granted by the Chief if no voluntary
 agreement were to be reached with the Bittingers.

6 7 Q29.

production in a unit?

8 A29. Yes. In my experience, surface-acreage allocation is both fair and customary for
9 horizontal shale development.

In your experience, is surface acreage allocation a customary way to allocate

- 10 Q30. How are unit expenses allocated?
- A30. Like production in the unit, unit expenses are allocated generally on a surfaceacreage basis. Article 3 of the Unit Agreement provides that expenses, unless otherwise allocated in the Unit Operating Agreement, will be allocated to each tract of land within the unit in the proportion that the surface acres of each tract bears to the surface acres of the entire unit.
- 16 **Q31. Who pays the unit expenses?**

17 A31. Working interest owners.

18 Q32. Do the royalty owners pay any part of the unit expenses?

- A32. No. Royalty interest owners are responsible only for their proportionate share of
 taxes and post-production costs, payable only from their share of the proceeds from
 sales of production from the unit area.
- Q33. Let's turn to the Unit Operating Agreement, marked as Exhibit 2 to the
 Application. It appears to be based upon a form document. Could you please
 identify that form document?
- A33. Yes. The Unit Operating Agreement is based upon A.A.P.L. Form 610 Model
 Form Operating Agreement 1989. Operators typically use a modified version of
 that form agreement when entering into joint operating agreements with other
 working interest owners.

Q34. Are you familiar with the custom and usage of the Form 610 and other similar agreements in the industry?

31 A34. Yes. The Form 610, together with its exhibits, is a commonly used form in the

1 industry and is frequently modified to fit the needs of the parties and 2 circumstances.

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Q35. Turning to the Unit Operating Agreement in particular, does it address how unit expenses are determined and paid?

A35. Yes. Article III of the Unit Operating Agreement provides that all costs and
liabilities incurred in operations shall be borne and paid proportionately by the
working interest owners, according to their Tract Participation percentages. Those
percentages can be found in Exhibits A-2, A-3, A-4, A-5, & A-6 to the Unit
Operating Agreement. Moreover, the Unit Operating Agreement has attached to it
an accounting procedure identified as Exhibit C.

Q36. What is the purpose of the document marked as Exhibit C to the Unit
Operating Agreement in connection with the Smith Unit?

- A36. The document provides greater details regarding how unit expenses are determinedand paid.
- Q37. At the top of each page of Exhibit C, there appears a label that reads:
 "COPAS 1984 ONSHORE Recommended by the Council of Petroleum
 Accountants Societies." Are you familiar with this society?

18 A37. Yes, COPAS stands for the Council of Petroleum Accountants Societies.

19 Q38. Is this COPAS document used in oil and gas operations across the country?

20 A38. Yes. This form is commonly used in the industry.

21 Q39. In your opinion, is this COPAS document generally accepted in the industry?

- A39. Yes. The document was drafted by an organization that includes members from
 many different companies in diverse sections of the industry, it was designed to be
 generally fair to the parties. Chesapeake, in fact, is frequently subject to the
 COPAS in its operations with other producers.
- Q40. Will there be in-kind contributions made by owners in the unit area for unit
 operations, such as contributions of equipment?
- 28 A40. No, Chesapeake does not anticipate in-kind contributions for unit operations.
- Q41. Are there times when a working interest owner in the unit chooses not to or
 cannot pay their allocated share of the unit expenses?
- 31 A41. Yes, such a situation is not uncommon in the industry. Joint operating agreements

contemplate that there will be times when less than all of the working interest owners choose to participate in operations on the contract area. The agreements are drafted to allow the parties flexibility. That includes flexibility for one or more working interest owners to decline to participate in an operation that they may not believe will be a profitable venture or one that they cannot afford, as well as flexibility for the remaining parties to proceed with such operation at their own risk and expense if they wish to do so.

Q42. Generally, how is the working interest accounted for when an owner chooses

8

9

not to participate in an operation?

10 A42. A working interest owner who cannot or chooses not to participate is considered a 11 non-consenting party. If the remaining working interest owners decide to proceed 12 with an operation, then the consenting parties bear the full costs and expenses of 13 that operation. A non-consenting party is deemed to have relinquished its interest 14 in that operation until such time as the well pays out the costs that would have been 15 payable by that party, plus some sort of risk factor, sometimes called a risk penalty.

16 Q43. What is a risk penalty, and why is it included in the agreement?

A43. A risk penalty is a mechanism which recognizes that in instances when a working interest owner chooses not to agree in advance to pay its share of the costs of drilling a well, the other working interest owners should be compensated for the financial risks they undertake in paying the costs of drilling a well considering that the well may be a non-producer. Additionally, a risk penalty can serve as a means to allow a working interest owner to finance participation in a well when unable to advance its share of drilling costs.

Q44. Can a working interest owner choose to go non-consent in the initial well in the Smith Unit?

A44. Yes. If a working interest owner fails to participate in the unit's initial well, and if
that working interest owner is not a party to a separate Joint Operating Agreement
with Chesapeake, then Article VI.A of the Unit Operating Agreement attached to
this application provides that the working interest owner shall be deemed to have
relinquished to the other parties its working interest in the unit with a back-in
provision that includes a risk factor of 500%.

1 Q45. Does the Unit Operating Agreement treat the initial well and subsequent 2 operations differently in terms of non-consent penalties, and if so, why? 3 A45. No. A risk factor of 500% applies to the initial well and subsequent operations. 4 **O46**. But if the working interest owner still has a royalty interest in the unit, that 5 royalty interest would remain in place and be paid? 6 A46. Yes. The royalty interest would still be paid even if the working interest is being 7 used to pay off a risk factor.

8 Q49. Are the risk penalty percentages included in the Unit Operating 9 Agreement unusual?

10 A49. No. A risk penalty of 500% is fair and reasonable for working interest owners in 11 Ohio who have acquired their rights as lessees under current oil and gas leases. 12 The proposed unit constitutes a significant capital investment which entails a 13 degree of operational risk. In addition, unconventional plays like the Utica Shale 14 are not simple, homogeneous plays. Within the boundaries of the Utica Shale play, 15 there are likely to be areas of uneven geological performance. Therefore, given the inherent risks and significant capital outlays, it is common for companies to 16 17 incorporate a higher risk factor in their joint operating agreements to encourage 18 participation.

19 Q50. Is a risk factor level of 500% common among the industry or in other 20 jurisdictions?

- A50. Typically, within the Utica Shale play, operators have pre-negotiated Joint
 Operating Agreements with each other which contain risk factors of 400%, 500%,
 or sometimes even higher.
- 24 Q51. How are decisions made regarding unit operations?
- A51. Article V of the Unit Operating Agreement designates Chesapeake Exploration,
 L.L.C., as the unit operator, with full operational authority for the supervision and
 conduct of operations in the proposed Smith Unit. Additionally, except where
 otherwise provided, Article XVI of the Unit Operating Agreement states that any
 decision, determination or action to be taken by the unit participants shall be based
 on a voting procedure in which each unit participant has a vote that corresponds in
 value to that participant's allocated responsibility for the payment of unit expenses.

1Q52. I believe you've already described generally the documents in Exhibits A and2C to the Unit Operating Agreement. Let's turn therefore to Exhibit B of the

Unit Operating Agreement. What is it?

A52. Exhibit B is a standard oil and gas lease form that is attached to the joint operating
agreement to govern any unleased interests owned by the parties. Article III.A of
the Unit Operating Agreement provides that if any party owns or acquires an oil
and gas interest in the contract area, then that interest shall be treated for all
purposes of the Unit Operating Agreement as if it were covered by the form of
lease attached as Exhibit B.

- Q53. Does this oil and gas lease contain standard provisions that Chesapeake uses in
 connection with its drilling operations in Ohio and elsewhere?
- 12 A53. Yes.

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Q54. Moving on to Exhibit D of the Unit Operating Agreement, would you describe what it is?

A54. Yes, Exhibit D is the insurance exhibit to the joint operating agreement. It sets
forth coverage amounts and limitations, and the insurance terms for operations
conducted under the Unit Operating Agreement. It requires the operator, to obtain
General Liability coverage, including bodily injury and property damage liability,
in an amount of five million dollars, which is substantially similar to those
employed in connection with other unitized projects in the State of Ohio.

21 Q55. Would you next describe Exhibit E of the Unit Operating Agreement?

A55. Yes. Exhibit E is the Gas Balancing Agreement, which further details the rights
and obligations of working interest parties with respect to marketing and selling
any production from the Contract Area. It would normally not come in to play with
an unleased landowner, but only with a working interest owner who desired to
market their share of production separately from the Operator.

Q56. Does the Application contain a list of the fee interest owners who have not previously agreed to enter into any oil and gas lease with respect to the tracts they own, or possibly own, within the Smith Unit?

A56. Yes. Exhibit A-3 to the Unit Operating Agreement lists the "Unleased Mineral
 Owners," that is, the fee mineral owners who have not leased their mineral interests

to any party. For notice purposes, the proper addresses for these unleased parties
are listed on Exhibit A-2 to the Unit Operating Agreement as well. Additionally,
Exhibits A-4 and A-5 to the Unit Operating Agreement list all committed and
uncommitted working interest owners within the planned unit area. Exhibit A-6 to
the Unit Operating Agreement lists any mineral interest subject to ownership
litigation or an adverse claim.

7 8

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Q57. In your professional opinion, given your education and experience, are unit operations for the proposed Smith Unit reasonably necessary to increase substantially the ultimate recovery of oil and gas?

- 10 Yes. Unit operations for the proposed Smith Unit are reasonably necessary to A57. 11 increase substantially the ultimate recovery of oil and gas. As testified by my colleagues Mrs. Jaeckel and Mr. Shawuti, unit operations will promote a rational 12 13 and efficient development of the Unitized Formation underlying the proposed Smith Unit. In addition, as a land professional, I am supportive of any efforts to 14 reduce waste by minimizing the number of wells and surface locations utilized for 15 drilling operations. I understand that land is a valuable commodity and that 16 horizontal drilling is an excellent way to accommodate both the rights of the 17 18 mineral owner and the rights of the surface owner to accomplish reasonable 19 development.
- 20 **Q58.** Does this conclude your testimony?

21 A58. Yes.

Exhibit RH-1

STATE OF OHIO DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL AND GAS RESOURCES MANAGEMENT

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In re the Matter of the Application of	
Chesapeake Exploration, L.L.C., for	
Unit Operation	

Smith Unit

AFFIDAVIT OF UNLEASED MINERAL OWNERS AND NON-CONSENTING WORKING INTEREST OWNERS EFFORTS

I, Robert Highsaw, being first duly cautioned and sworn, do hereby depose and state as follows:

- 1. Affiant is competent to testify on the matters contained in this affidavit.
- 2. Affiant, Robert Highsaw, is employed by Chesapeake Operating, L.L.C., which is a subsidiary of Chesapeake Energy Corporation and an affiliate of Chesapeake Exploration, L.L.C. ("Chesapeake"), as a Staff Landman. Affiant's job responsibilities include the acquisition of leases in certain areas of Ohio, including Harrison County, Ohio, on behalf of Chesapeake.
- 3. Affiant has the authority to sign this affidavit on behalf of Chesapeake.
- 4. Tracts 7, 11, 21, 27, 42, 43, 44, and 47 are owned in whole or in part by various unleased mineral owners.
- 5. Chesapeake has made diligent efforts to obtain a lease with each unleased mineral owner. Those efforts are documented in the attached chart and include making in-person visits, telephone calls, e-mail correspondence, and mail correspondence.
- 6. Tracts 14, 20, 26, 31, and 32 are owned in whole or in part by various uncommitted working interest owners.
- 7. Chesapeake has made a diligent effort to locate and either acquire the working interests owned by the uncommitted working interest owners or negotiate mutually acceptable terms that would permit Chesapeake to voluntarily include the working interests owned by the uncommitted working interest owners within the Smith Unit. These efforts are documented in the attached chart and include telephone calls and e-mail correspondence.

FURTHER AFFIANT SAYETH NAUGHT.

Robert Highsaw - Staff Landman

STATE OF OKLAHOMA

)) ss:

COUNTY OF OKLAHOMA

Sworn to and subscribed before me this 8^{\square} day of \square by Robert Highsaw.



Margan Beuchaw Notary Public

Revised 1/8/2019

2019,

Tract(s)	Parcel(s)	Unleased Mineral Interest Owner's Name	Address				
7 & 11	04-0000099.000, 04-0000103.001	The Known and Unknown Heirs, Successors,	5151 Lakeside Dr.				
		Devisees, or Assigns of Polly Kirkpatrick:	Mason, OH 45040				
		Kevin Kirkpatrick					
Date			Comments				
	Chesapeake Representative, Mark Beary of DF	S Land Services, LP, tried calling the phone number on					
	Mr. Beary mailed contact letter to Polly A. Kirl						
6/11/2018	Mr. Beary discovered that Polly A. Kirkpatrick	passed away January 13, 2018. Mr. Beary contacted th	he Huron County Proba	te Court were Mrs. Kirkpatrick died and there was no estate filed. Mr. Beary found an online			
	obituary for Mrs. Kirkpatrick on norwalkreflec	tor.com. The obituary listed a son Kevin Kirkpatrick as	surviving Mrs. Kirkpatr	rick and a daughter, Pamela Carpenter that predeceased Polly A. Kirkpatrick. Mr. Beary discovered			
	that Pamela Carpenter left three daughters be	lieved to be Jodi E. Carpenter, Michelle A. Smith, and	Tracy L. Konik.				
6/20/2018	Mr. Beary spoke to Kevin Kirkpatrick heir of Po	olly A. Kirkpatrick regarding a new lease proposal via pl	hone. Mr. Kirkpatrick sa	aid he was not interested and hung up on Mr. Beary.			
	Mr. Beary mailed a contact letter to Mr. Kirkpa						
		Kirkpatrick requesting a call back. He also sent a certif					
		ail that Kevin Kirkpatrick signed for the certified letter	he sent on 8/27/2018 b	but he has not heard from him yet.			
	Mr. Beary called and left a voicemail for Kevin						
	Mr. Beary called and left a voicemail for Kevin	· · · ·					
		Kirkpatrick requesting a call back and stating the reason	on for the call.				
	Mr. Beary mailed a letter to Kevin Kirkpatrick.						
		Kirkpatrick requesting a call back and inquiring wheth					
		l for Kevin Kirkpatrick, but Mr. Kirkpatrick's voicemail v	was malfunctioning and	Mr. Beary was unable to leave a message.			
	Mr. Beary called and left a voicemail for Kevin			A Della Malassatziala azia azil interest			
	•	Kirkpatrick requesting a call back and requesting addit	tional information abol	at Polly Kirkpatrick's mineral interest.			
Tract(s)	Mr. Beary called and left a voicemail for Kevin Parcel(s)	Unleased Mineral Interest Owner's Name	Address				
7 & 11	04-0000099.000, 04-0000103.001	The Known and Unknown Heirs, Successors,	133 Fairway Circle				
/ @ 11	04-000039.000, 04-0000103.001	Devisees, Or Assigns of Polly Kirkpatrick:	Norwalk, OH 44857				
		Jodi E. Carpenter	Norwalk, 011 44057				
		Jour El curpenter					
Date	Comments						
6/9/2018	Chesapeake Representative, Mark Beary of DF	S Land Services, LP, tried calling the phone number on	file but no answer.				
	Mr. Beary mailed a contact letter to Polly A. Ki						
6/11/2018	Mr. Beary discovered that Polly A. Kirkpatrick	passed away January 13, 2018. Mr. Beary contacted th	he Huron County Proba	te Court were Mrs. Kirkpatrick died and there was no estate filed. Mr. Beary found an online			
	obituary for Mrs. Kirkpatrick on norwalkreflector.com. The obituary listed a son Kevin Kirkpatrick as surviving Mrs. Kirkpatrick and a daughter, Pamela Carpenter that predeceased Polly A. Kirkpatrick. Mr. Beary discovered						
	that Pamela Carpenter left three daughters be	lieved to be Jodi E. Carpenter, Michelle A. Smith, and	Tracy L. Konik.				

7/3/2018	Mr. Beary mailed a contact letter.				
	Mr. Beary left a voicemail requesting a callback.				
	Mr. Beary sent a contact letter.				
	Mr. Beary sent a certified letter.				
	Mr. Beary received a signed return for Ms. Ca	rpenters' certified letter.			
	Mr. Beary left a voicemail requesting a callbac	•			
	Mr. Beary left a voicemail requesting a callbac				
	Mr. Beary mailed a letter to Jodi E. Carpenter.				
	Mr. Beary mailed another letter to Jodi E. Car				
10/30/2018	Mr. Beary called and left a voicemail requesting	ng a callback.			
11/8/2018	Mr. Beary called and left a voicemail requesting	ng a callback.			
11/20/2018	Mr. Beary called and left a voicemail requesting	ng a callback.			
12/19/2018	Mr. Beary called and left a voicemail requesting	ng a callback.			
Tract(s)	Parcel(s)	Unleased Mineral Interest Owner's Name	Address		
7 & 11	04-0000099.000, 04-0000103.001	The Known and Unknown Heirs, Successors,	190 Euclid Ave.		
		Devisees, Or Assigns of Polly Kirkpatrick:	Wadsworth, OH		
		Michelle A. Smith	44281		
Date			Comments		
	Chosanoako Bonrosontativo, Mark Boary of DE	PS Land Services, LP, tried calling the phone number or			
	Mr. Beary mailed a contact letter to Polly A. K		The but no answer.		
			to the hoirs of Polly A	Kirkpatrick. Mr. Beary contacted the Huron County Probate Court were Mrs. Kirkpatrick died and	
				isted a son Kevin Kirkpatrick as surviving Mrs. Kirkpatrick and a daughter, Pamela Carpenter that	
	•	iscovered that Pamela Carpenter left three daughters			
	predeceased Polly A. Kirkpatrick. Mir. Beary d	iscovered that Pamela Carpenter left three daughters	believed to be Jodi E. C	arpenter, Michelle A. Smith, and Tracy L. Konik.	
7/3/2018	Mr. Beary mailed a contact letter to Mrs. Smit	th			
	8 Mr. Beary mailed a contact letter to Mrs. Smith. 8 Mr. Beary called and left a voicemail requesting a callback.				
	18 Mr. Beary mailed a contact letter.				
	18 Mr. Beary called and left a voicemail requesting a callback.				
	18 Mr. Beary called and left a voicemail requesting a caliback.				
	Mr. Beary mailed a letter to Michelle A. Smith				
	Mr. Beary called and left a voicemail requestin				
	Mr. Beary called and left a voicemail requesting Mr. Beary called And Mr. Beary Called Mr. Beary Called And Left A voicemail requesting Mr. Beary Called And Left A voicemail Mr. Beary Called A voicemail Mr. Beary Called And Left A voicemail Mr. Beary Called And Left				
		mail box was full so Mr. Beary was unable to leave a m	nessage		
	Mr. Beary called and left a voicemail requesting	•	1000050.		
12/13/2010	with beary called and left a voicemail requesti				

7 & 11	04-0000099.000, 04-0000103.001			
	· · · · · · · · · · · · · · · · · · ·	The Known and Unknown Heirs, Successors,	4 High St	
		Devisees, Or Assigns of Polly Kirkpatrick:	Norwalk, OH 44857	
		Tracy L. Konik		
Date			Comments	
	hesapeake Representative, Mark Beary of DP	S Land Services, LP, tried calling the phone number on		
	Ir. Beary mailed contact letter to Polly A. Kirk			
6/11/2018 M	۲. Beary discovered that Polly A. Kirkpatrick p	bassed away January 13, 2018. He is searching to locat	te the heirs of Polly A. K	irkpatrick. Mr. Beary contacted the Huron County Probate Court were Mrs. Kirkpatrick died and
th	here was no estate filed. Mr. Beary found an	online obituary for Mrs. Kirkpatrick on norwalkreflect	or.com. The obituary li	sted a son Kevin Kirkpatrick as surviving Mrs. Kirkpatrick and a daughter, Pamela Carpenter that
pr	redeceased Polly A. Kirkpatrick. Mr. Beary dis	scovered that Pamela Carpenter left three daughters b	pelieved to be Jodi E. Ca	arpenter, Michelle A. Smith, and Tracy L. Konik.
	Ir. Beary mailed a contact letter to Mrs. Konil	κ.		
	Ar. Beary called and left a message			
	Ir. Beary sent a contact letter.			
	Ar. Beary called and left a voicemail.			
				st will and testament. Mrs. Konik said she did not know. Mr. Beary inquired as to whether or not
		I and gas lease and she responded no and that she did	I not know anything ab	out oil and gas.
	Ar. Beary mailed a letter to Tracy L. Konik.			
	Ar. Beary mailed another letter to Tracy L. Kor			
	Ar. Beary called and left a voicemail requestin			
	Ar. Beary called and left a voicemail requestin	-		
	Ar. Beary called and left a voicemail requestin Ar. Beary called and left a voicemail requestin			
	Ar. Beary called and left a voicemail requestin			
Tract(s)	Parcel(s)	Unleased Mineral Interest Owner's Name	Address	
7 & 11	04-0000099.000, 04-0000103.001	The David L. McKnight and Carolyn D. McKnight	9637 Easton Street	
/ 4 11	04 0000055.000, 04 0000105.001	Joint Revocable Trust dated April 11, 2013	Louisville, OH 44641	
		Joint Revoluble Trust dated April 11, 2010		
Date			Comments	
	hesapeake Representative, Mark Beary of DP	S Land Services, LP, called and left a voicemail for Card		sting a call back.
	Ar. Beary mailed a contact letter to Carolyn D.		, 0	
	Mr. Beary spoke to Carolyn D. McKnight via phone regarding a new lease proposal. Ms. McKnight said she and her siblings would not be interested in signing a new lease. She said they signed a lease back in 2012 and never			
		the following week to speak to her husband.	C C	

8/21/2018 Mr. Beary sent a certified contact letter to Carolyn D. McKnight.

9/13/2018 Mr. Beary received the certified letter he sent back undeliverable in the mail.

9/27/2018 Mr. Beary called and left a voicemail for Ms. McKnight requesting a call back.

10/8/2018 Mr. Beary called and spoke Ms. McKnight by phone. Mr. Beary asked Ms. McKnight whether she was interested in leasing with Chesapeake. Ms. McKnight said she was not interested and she ended the conversation and hung up.

10/23/2018 Mr. Beary mailed another letter to Carolyn D. McKnight.

11/12/2018 Mr. Beary called and left a voicemail for Ms. McKnight requesting a call back.

11/20/2018 Mr. Beary called and left a voicemail for Ms. McKnight requesting a call back.

12/5/2018 Mr. Beary spoke with Carolyn D. McKnight by phone. Ms. McKnight stated that she was in the process of selling her mineral interest.

12/19/2018 Mr. Beary called and left a voicemail for Ms. McKnight requesting a call back.

12/19/2018 Mr. Beary spoke with Carolyn D. McKnight by phone. Ms. McKnight stated that she, Donald, Doug, and Kathleen were in the process of selling their mineral interests to Ohio Land and Minerals, LLC.

Tract(s)	Parcel(s)	Unleased Mineral Interest Owner's Name	Address			
7 & 11	04-0000099.000, 04-0000103.001	Dennis A. Johnson and Kathleen A. Johnson as Co-	5393 Ault Avenue			
		Trustees of	Louisville, OH 44641			
		The Johnson Family Revocable Living Trust dated				
		December 29, 2009				
Date			Comments			
6/9/2018	Chesapeake Representative, Mark Beary of DI	S Land Services, LP, called the cell phone number on f	ile but no answer.			
7/3/2018	Mr. Beary mailed contact letter.					
7/6/2018	Mr. Beary spoke to Carolyn D. McKnight via p	none regarding a new lease proposal. Ms. McKnight sa	id she and her siblings (Donald M. Kirkpatrick, Jr. and Kathleen Kirkpatrick) would not be interested in signing a new lease.		
	She said to call back the following week to speak to her husband.					
9/19/2018	8 Mr. Beary called and left a voicemail for Kathleen A. Johnson requesting a call back.					
10/4/2018	8 Mr. Beary mailed a certified letter to Kathleen Johnson.					
	8 Mr. Beary called and left a voicemail for Kathleen Johnson.					
10/23/2018	18 Mr. Beary mailed a letter by USPS to Kathleen Johnson.					
	018 Mr. Beary called and left a voicemail for Ms. Johnson requesting a call back.					
	18 Mr. Beary called the same telephone number for Ms. Johnson but received an message that the number had been disconnected.					
12/5/2018	18 Mr. Beary called and was able to leave a voicemail for Ms. Johnson requesting a call back.					
12/5/2018	Mr. Beary spoke with Carolyn D. McKnight by	phone. Ms. McKnight stated that she was in the proce	ss of selling her minera	l interest, as was her relative, Kathleen Johnson.		
12/19/2018	Mr. Beary spoke with Carolyn D. McKnight by	phone. Ms. McKnight stated that she, Donald, Doug, a	nd Kathleen were in the	e process of selling their mineral interests to Ohio Land and Minerals, LLC.		

Tract(s)	Parcel(s)	Unleased Mineral Interest Owner's Name	Address			
7 & 11	04-0000099.000, 04-0000103.001	Donald M. Kirkpatrick, Jr.	2049 Arabian Trial			
			Elizabeth, CO 80107			
Date			Comments			
		PS Land Services, LP, tried calling the phone number or	n file but no answer and	there is not a mail box set up to leave a message.		
	Mr. Beary mailed contact letter to Donald M.					
			id she and her siblings (Donald M. Kirkpatrick, Jr. and Kathleen Kirkpatrick) would not be interested in signing a new lease.		
	She said to call back the following week to spe Mr. Boary called Donald M. Kirkpatrick, Jr. via	phone but he did not answer and there was not a mai	l hav sat un ta lagua gin	000000		
	Mr. Beary mailed a certified letter to Donald I	·	i box set up to leave a li	icssage.		
		nail for Mr. Kirkpatrick, however his voicemail box was	not set up so Mr. Bear	/ was not able to leave a voice message		
		kpatrick had signed for the certified letter he had mail	· · · · · ·			
	Mr. Beary mailed a a letter via USPS to Donald					
, ,	10/23/2018 Mr. Beary mailed a a letter via USPS to Donald M. Kirkpatrick, Jr. 11/12/2018 Mr. Beary called and left a voicemail asking if the Kirkpatricks had received his latest letter.					
11/12/2018	IVIT. Beary called and left a voicemail asking if	the Kirkpatricks had received his latest letter.				
	· · ·	the Kirkpatricks had received his latest letter. hail for Mr. Kirkpatrick, however his voicemail box was	not set up so Mr. Beary	was not able to leave a voice message.		
11/20/2018	Mr. Beary called to try to leave a left a voicen					
11/20/2018 12/5/2018	Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem	nail for Mr. Kirkpatrick, however his voicemail box was	not set up so Mr. Beary	v was not able to leave a voice message.		
11/20/2018 12/5/2018 12/19/2018	Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem	nail for Mr. Kirkpatrick, however his voicemail box was nail for Mr. Kirkpatrick, however his voicemail box was nail for Mr. Kirkpatrick, however his voicemail box was	not set up so Mr. Beary not set up so Mr. Beary	v was not able to leave a voice message.		
11/20/2018 12/5/2018 12/19/2018 12/19/2018	Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem Mr. Beary spoke with Carolyn D. McKnight by	nail for Mr. Kirkpatrick, however his voicemail box was nail for Mr. Kirkpatrick, however his voicemail box was nail for Mr. Kirkpatrick, however his voicemail box was phone. Ms. McKnight stated that she, Donald, Doug, a	not set up so Mr. Beary not set up so Mr. Beary nd Kathleen were in the	/ was not able to leave a voice message. / was not able to leave a voice message.		
11/20/2018 12/5/2018 12/19/2018 12/19/2018 Tract(s)	Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem Mr. Beary spoke with Carolyn D. McKnight by Parcel(s)	nail for Mr. Kirkpatrick, however his voicemail box was nail for Mr. Kirkpatrick, however his voicemail box was nail for Mr. Kirkpatrick, however his voicemail box was phone. Ms. McKnight stated that she, Donald, Doug, a Unleased Mineral Interest Owner's Name	not set up so Mr. Beary not set up so Mr. Beary nd Kathleen were in the Address	/ was not able to leave a voice message. / was not able to leave a voice message.		
11/20/2018 12/5/2018 12/19/2018 12/19/2018	Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem Mr. Beary spoke with Carolyn D. McKnight by	nail for Mr. Kirkpatrick, however his voicemail box was nail for Mr. Kirkpatrick, however his voicemail box was nail for Mr. Kirkpatrick, however his voicemail box was phone. Ms. McKnight stated that she, Donald, Doug, a	not set up so Mr. Beary not set up so Mr. Beary nd Kathleen were in the Address 9354 Briar Hill Road	/ was not able to leave a voice message. / was not able to leave a voice message.		
11/20/2018 12/5/2018 12/19/2018 12/19/2018 Tract(s)	Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem Mr. Beary spoke with Carolyn D. McKnight by Parcel(s)	nail for Mr. Kirkpatrick, however his voicemail box was nail for Mr. Kirkpatrick, however his voicemail box was nail for Mr. Kirkpatrick, however his voicemail box was phone. Ms. McKnight stated that she, Donald, Doug, a Unleased Mineral Interest Owner's Name	not set up so Mr. Beary not set up so Mr. Beary nd Kathleen were in the Address	/ was not able to leave a voice message. / was not able to leave a voice message.		
11/20/2018 12/5/2018 12/19/2018 12/19/2018 Tract(s)	Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem Mr. Beary spoke with Carolyn D. McKnight by Parcel(s)	nail for Mr. Kirkpatrick, however his voicemail box was nail for Mr. Kirkpatrick, however his voicemail box was nail for Mr. Kirkpatrick, however his voicemail box was phone. Ms. McKnight stated that she, Donald, Doug, a Unleased Mineral Interest Owner's Name	not set up so Mr. Beary not set up so Mr. Beary nd Kathleen were in the Address 9354 Briar Hill Road	/ was not able to leave a voice message. / was not able to leave a voice message.		
11/20/2018 12/5/2018 12/19/2018 12/19/2018 Tract(s)	Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem Mr. Beary spoke with Carolyn D. McKnight by Parcel(s)	nail for Mr. Kirkpatrick, however his voicemail box was nail for Mr. Kirkpatrick, however his voicemail box was nail for Mr. Kirkpatrick, however his voicemail box was phone. Ms. McKnight stated that she, Donald, Doug, a Unleased Mineral Interest Owner's Name	not set up so Mr. Beary not set up so Mr. Beary nd Kathleen were in the Address 9354 Briar Hill Road	/ was not able to leave a voice message. / was not able to leave a voice message.		
11/20/2018 12/5/2018 12/19/2018 12/19/2018 Tract(s)	Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem Mr. Beary spoke with Carolyn D. McKnight by Parcel(s)	nail for Mr. Kirkpatrick, however his voicemail box was nail for Mr. Kirkpatrick, however his voicemail box was nail for Mr. Kirkpatrick, however his voicemail box was phone. Ms. McKnight stated that she, Donald, Doug, a Unleased Mineral Interest Owner's Name	not set up so Mr. Beary not set up so Mr. Beary nd Kathleen were in the Address 9354 Briar Hill Road	/ was not able to leave a voice message. / was not able to leave a voice message.		
11/20/2018 12/5/2018 12/19/2018 12/19/2018 Tract(s) 7 & 11	Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem Mr. Beary spoke with Carolyn D. McKnight by Parcel(s)	nail for Mr. Kirkpatrick, however his voicemail box was nail for Mr. Kirkpatrick, however his voicemail box was nail for Mr. Kirkpatrick, however his voicemail box was phone. Ms. McKnight stated that she, Donald, Doug, a Unleased Mineral Interest Owner's Name	not set up so Mr. Beary not set up so Mr. Beary nd Kathleen were in the Address 9354 Briar Hill Road Herron, MI 49744	/ was not able to leave a voice message. / was not able to leave a voice message.		
11/20/2018 12/5/2018 12/19/2018 12/19/2018 Tract(s) 7 & 11 Date	Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem Mr. Beary spoke with Carolyn D. McKnight by Parcel(s) 04-0000099.000, 04-0000103.001	nail for Mr. Kirkpatrick, however his voicemail box was nail for Mr. Kirkpatrick, however his voicemail box was nail for Mr. Kirkpatrick, however his voicemail box was phone. Ms. McKnight stated that she, Donald, Doug, a Unleased Mineral Interest Owner's Name Douglas Moore Kirkpatrick	not set up so Mr. Beary not set up so Mr. Beary nd Kathleen were in the Address 9354 Briar Hill Road Herron, MI 49744 Comments	y was not able to leave a voice message. y was not able to leave a voice message. e process of selling their mineral interests to Ohio Land and Minerals, LLC.		
11/20/2018 12/5/2018 12/19/2018 12/19/2018 Tract(s) 7 & 11 Date	Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem Mr. Beary spoke with Carolyn D. McKnight by Parcel(s) 04-0000099.000, 04-0000103.001	nail for Mr. Kirkpatrick, however his voicemail box was nail for Mr. Kirkpatrick, however his voicemail box was nail for Mr. Kirkpatrick, however his voicemail box was phone. Ms. McKnight stated that she, Donald, Doug, a Unleased Mineral Interest Owner's Name Douglas Moore Kirkpatrick	not set up so Mr. Beary not set up so Mr. Beary nd Kathleen were in the Address 9354 Briar Hill Road Herron, MI 49744 Comments	/ was not able to leave a voice message. / was not able to leave a voice message.		
11/20/2018 12/5/2018 12/19/2018 12/19/2018 Tract(s) 7 & 11 Date 6/9/2018	Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem Mr. Beary spoke with Carolyn D. McKnight by Parcel(s) 04-0000099.000, 04-0000103.001 Chesapeake Representative, Mark Beary of D	nail for Mr. Kirkpatrick, however his voicemail box was nail for Mr. Kirkpatrick, however his voicemail box was nail for Mr. Kirkpatrick, however his voicemail box was phone. Ms. McKnight stated that she, Donald, Doug, a Unleased Mineral Interest Owner's Name Douglas Moore Kirkpatrick	not set up so Mr. Beary not set up so Mr. Beary nd Kathleen were in the Address 9354 Briar Hill Road Herron, MI 49744 Comments re Kirkpatrick's wife via	y was not able to leave a voice message. y was not able to leave a voice message. e process of selling their mineral interests to Ohio Land and Minerals, LLC.		
11/20/2018 12/5/2018 12/19/2018 12/19/2018 Tract(s) 7 & 11 Date 6/9/2018 6/14/2018	Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem Mr. Beary spoke with Carolyn D. McKnight by Parcel(s) 04-0000099.000, 04-0000103.001 Chesapeake Representative, Mark Beary of DI Mr. Beary spoke to Douglas Moore Kirkpatric	nail for Mr. Kirkpatrick, however his voicemail box was nail for Mr. Kirkpatrick, however his voicemail box was nail for Mr. Kirkpatrick, however his voicemail box was phone. Ms. McKnight stated that she, Donald, Doug, a Unleased Mineral Interest Owner's Name Douglas Moore Kirkpatrick	not set up so Mr. Beary not set up so Mr. Beary nd Kathleen were in the Address 9354 Briar Hill Road Herron, MI 49744 Comments re Kirkpatrick's wife via	y was not able to leave a voice message. y was not able to leave a voice message. e process of selling their mineral interests to Ohio Land and Minerals, LLC.		
11/20/2018 12/5/2018 12/19/2018 12/19/2018 Tract(s) 7 & 11 Date 6/9/2018 6/14/2018 7/11/2018	Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem Mr. Beary spoke with Carolyn D. McKnight by Parcel(s) 04-0000099.000, 04-0000103.001 Chesapeake Representative, Mark Beary of DI Mr. Beary spoke to Douglas Moore Kirkpatricl Mr. Beary called and left message with person	nail for Mr. Kirkpatrick, however his voicemail box was nail for Mr. Kirkpatrick, however his voicemail box was nail for Mr. Kirkpatrick, however his voicemail box was phone. Ms. McKnight stated that she, Donald, Doug, a Unleased Mineral Interest Owner's Name Douglas Moore Kirkpatrick PS Land Services, LP, called and spoke to Douglas Moore k via phone regarding a new lease proposal. Mr. Kirkpa n who picked up the phone call for Mr. Kirkpatrick requ	not set up so Mr. Beary not set up so Mr. Beary nd Kathleen were in the Address 9354 Briar Hill Road Herron, MI 49744 Comments re Kirkpatrick's wife via trick said he would be i jesting a call back.	y was not able to leave a voice message. y was not able to leave a voice message. e process of selling their mineral interests to Ohio Land and Minerals, LLC.		
11/20/2018 12/5/2018 12/19/2018 12/19/2018 Tract(s) 7 & 11 7 & 11 Date 6/9/2018 6/14/2018 7/11/2018 7/31/2018	Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem Mr. Beary spoke with Carolyn D. McKnight by Parcel(s) 04-0000099.000, 04-0000103.001 Chesapeake Representative, Mark Beary of DI Mr. Beary spoke to Douglas Moore Kirkpatricl Mr. Beary called and left message with person	nail for Mr. Kirkpatrick, however his voicemail box was nail for Mr. Kirkpatrick, however his voicemail box was nail for Mr. Kirkpatrick, however his voicemail box was phone. Ms. McKnight stated that she, Donald, Doug, a Unleased Mineral Interest Owner's Name Douglas Moore Kirkpatrick PS Land Services, LP, called and spoke to Douglas Moore k via phone regarding a new lease proposal. Mr. Kirkpa n who picked up the phone call for Mr. Kirkpatrick requ	not set up so Mr. Beary not set up so Mr. Beary nd Kathleen were in the Address 9354 Briar Hill Road Herron, MI 49744 Comments re Kirkpatrick's wife via trick said he would be i jesting a call back.	y was not able to leave a voice message. y was not able to leave a voice message. e process of selling their mineral interests to Ohio Land and Minerals, LLC. phone. She said that Mr. Kirkpatrick was not home but she would have him call Mr. Beary back. Interested but would like a break down on the acreage interest.		
11/20/2018 12/5/2018 12/19/2018 12/19/2018 Tract(s) 7 & 11 7 & 11 Date 6/9/2018 6/14/2018 7/11/2018 7/31/2018	Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem Mr. Beary spoke with Carolyn D. McKnight by Parcel(s) 04-0000099.000, 04-0000103.001 Chesapeake Representative, Mark Beary of Dl Mr. Beary spoke to Douglas Moore Kirkpatricl Mr. Beary called and left message with person Mr. Beary spoke to Mr. Kirkpatrick via phone next week.	hail for Mr. Kirkpatrick, however his voicemail box was hail for Mr. Kirkpatrick, however his voicemail box was hail for Mr. Kirkpatrick, however his voicemail box was phone. Ms. McKnight stated that she, Donald, Doug, a Unleased Mineral Interest Owner's Name Douglas Moore Kirkpatrick PS Land Services, LP, called and spoke to Douglas Moore k via phone regarding a new lease proposal. Mr. Kirkpa n who picked up the phone call for Mr. Kirkpatrick requ regarding the proposed lease. Mr. Kirkpatrick said he v	not set up so Mr. Beary not set up so Mr. Beary nd Kathleen were in the Address 9354 Briar Hill Road Herron, MI 49744 Comments re Kirkpatrick's wife via trick said he would be i iesting a call back. vas still confused regard	y was not able to leave a voice message. y was not able to leave a voice message. e process of selling their mineral interests to Ohio Land and Minerals, LLC. phone. She said that Mr. Kirkpatrick was not home but she would have him call Mr. Beary back. Interested but would like a break down on the acreage interest.		
11/20/2018 12/5/2018 12/19/2018 12/19/2018 Tract(s) 7 & 11 Date 6/9/2018 6/14/2018 7/11/2018 7/31/2018 8/17/2018	Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem Mr. Beary spoke with Carolyn D. McKnight by Parcel(s) 04-0000099.000, 04-0000103.001 Mr. Beary spoke to Douglas Moore Kirkpatrick Mr. Beary spoke to Douglas Moore Kirkpatrick Mr. Beary spoke to Mr. Kirkpatrick via phone next week. Mr. Beary spoke to Mr. Kirkpatrick via phone.	hail for Mr. Kirkpatrick, however his voicemail box was hail for Mr. Kirkpatrick, however his voicemail box was hail for Mr. Kirkpatrick, however his voicemail box was phone. Ms. McKnight stated that she, Donald, Doug, a Unleased Mineral Interest Owner's Name Douglas Moore Kirkpatrick PS Land Services, LP, called and spoke to Douglas Moore k via phone regarding a new lease proposal. Mr. Kirkpa n who picked up the phone call for Mr. Kirkpatrick requ regarding the proposed lease. Mr. Kirkpatrick said he v	not set up so Mr. Beary not set up so Mr. Beary nd Kathleen were in the Address 9354 Briar Hill Road Herron, MI 49744 Comments re Kirkpatrick's wife via trick said he would be i testing a call back. vas still confused regare	y was not able to leave a voice message. y was not able to leave a voice message. e process of selling their mineral interests to Ohio Land and Minerals, LLC. phone. She said that Mr. Kirkpatrick was not home but she would have him call Mr. Beary back. Interested but would like a break down on the acreage interest. ding the acreage breakdown, so he wants to do some more research and will get back to Mr. Beary ffer from Venture Energy Solutions. He also said another company is wanting to buy his minerals.		
11/20/2018 12/19/2018 12/19/2018 12/19/2018 Tract(s) 7 & 11 7 & 11 0 0 0 1 0 1 1 1 1 1 1 1 1 1 1	Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem Mr. Beary called to try to leave a left a voicem Mr. Beary spoke with Carolyn D. McKnight by Parcel(s) 04-0000099.000, 04-0000103.001 Chesapeake Representative, Mark Beary of Dl Mr. Beary spoke to Douglas Moore Kirkpatrick Mr. Beary called and left message with person Mr. Beary spoke to Mr. Kirkpatrick via phone next week. Mr. Beary spoke to Mr. Kirkpatrick via phone. He said he is waiting on his accountant to adv Mr. Beary called and left a voicemail for Mr. K	hail for Mr. Kirkpatrick, however his voicemail box was hail for Mr. Kirkpatrick, however his voicemail box was hail for Mr. Kirkpatrick, however his voicemail box was phone. Ms. McKnight stated that she, Donald, Doug, a Unleased Mineral Interest Owner's Name Douglas Moore Kirkpatrick PS Land Services, LP, called and spoke to Douglas Moore k via phone regarding a new lease proposal. Mr. Kirkpatrick requiregarding the proposed lease. Mr. Kirkpatrick said he v Mr. Kirkpatrick informed Mr. Beary that has gotten an ise him what would be the best route to take and wou	not set up so Mr. Beary not set up so Mr. Beary nd Kathleen were in the Address 9354 Briar Hill Road Herron, MI 49744 Comments re Kirkpatrick's wife via trick said he would be i lesting a call back. vas still confused regard other proposed lease o Id get back to Mr. Beary Mr. Beary back. He sai	y was not able to leave a voice message. y was not able to leave a voice message. e process of selling their mineral interests to Ohio Land and Minerals, LLC. phone. She said that Mr. Kirkpatrick was not home but she would have him call Mr. Beary back. Interested but would like a break down on the acreage interest. ding the acreage breakdown, so he wants to do some more research and will get back to Mr. Beary ffer from Venture Energy Solutions. He also said another company is wanting to buy his minerals.		

10/4/2018 Mr. Beary spoke with Mr. Kirkpatrick by phone. Mr. Kirkpatrick said he had signed a letter of intent to sell his mineral interest to Ventura Energy. This transaction is expected to close some time in November of 2018.

10/25/2018 Mr. Beary called and left a voicemail for Mr. Kirkpatrick requesting a call back.

11/12/2018 Mr. Beary called and left a voicemail for Mr. Kirkpatrick requesting a call back.

11/19/2018 Mr. Beary called and left a voicemail for Mr. Kirkpatrick requesting a call back.

11/30/2018 Mr. Beary called and left a voicemail for Mr. Kirkpatrick requesting a call back.

12/19/2018 Mr. Beary called and spoke with Douglas Moore Kirkpatrick's wife who stated that she would have Douglas ("Doug") call Mr. Beary back.

12/19/2018 Mr. Beary spoke with Carolyn D. McKnight by phone. Ms. McKnight stated that she, Donald, Doug, and Kathleen were in the process of selling their mineral interests to Ohio Land and Minerals, LLC.

both said they were upset with their past dealings with a							
sign a new lease for under a certain lease bonus amount and							
nent and the Bittingers stated that they were not interested							
a new lease to review for their unleased tract of land.							
th his wife. Mr. DoRemus asked him to call him back once he							
SS.							
st 31, 2018, if he would be interested in having a face to face							
to his meeting on Friday.							
inger. They presented the Bittingers with the updated lease							
to review. The Bittingers said they would consider it. Mr. Bittinger emailed Mr. DoRemus asking for a certain lease bonus amount and royalty percentage. Mr. DoRemus sent a counter offer back to Mr. Bittinger to consider.							
consider.							
onsider. tinger on his cell to explain the lease offer in more detail.							
tinger on his cell to explain the lease offer in more detail.							
ng							

10/1/2018	118 Mr. Bittinger emailed back after speaking with attorney, requested higher bonus and short primary term with specific clauses. Mr. Bittinger repeated they would not change any terms w/ base Kimble lease w/o significant						
10/10/2010	consessions from Kimble (which CHK/EAP has no authority to negotiate). Mr. DoRemus reiterated his offer stood and it was his best offer. D18 Mr. DoRemus emailed Mr. Bittinger following up on his latest offer. Mr. DoRemus requested clarification on the previous guidance sent from Mr. Bittinger and, attempting to mold an offer to his highest priorities,						
10/18/2018							
12/10/2010	extended 4 separate offers with varying levels of compensation and primary terms. 19/2018 Mr. DoRemus and Robert Highsaw, Staff Landman of Chesapeake Energy, had a long telephone call with Attorney Larry Piergallini of Steubenville, Ohio who stated that he was representing the Bittingers in their lease						
12/19/2018							
	negotiation with Chesapeake concerning the approximate 21 acres of the Bittingers which is unleased. Mr. Highsaw and Mr. DoRemus discussed the pros and cons of leasing with Mr. Piegallini and gave him and his clients						
	a very frank assessment of what their options. Mr. Highsaw and Mr. DoRemus strongly encouraged Mr. Piergallini's clients to take the last best offer to lease the approximate 21 acres.						
Tract(s)	Parcel(s)	Unleased Mineral Interest Owner's Name	Address				
27	04-0000205.001	James F. Hines	38905 Deersville				
			Ridge Road				
			Cadiz, OH 43907				
			, ,				
Date			Comments				
6/22/2018	Ryan DoRemus, Landman II of Chesapeake End	ergy, emailed Eclipse Representative, Brianne Knierma	an, requesting Eclipe's s	tance on the above parcels.			
6/28/2018	Mr. DoRemus emailed Mrs. Knierman and rea	ffirmed Chesapeake's intent to acquire apparent HBP	acreage (Parcels 04-00	00205.000 and 04-0000205.001) for the target formations under the Miller Hines well pending			
	certain title verification requirments, requeste	ed Eclipse's blessing that Chesapeake would initiate to	p leasing on remaining	parcels (Parcles 04-0000115.002, 04-0000252.002, 04-0000264.000, 04-0000016.001, 04-			
	00117002, and 04-00117003) set to expire be	fore anticipated SPUD. The owners of Parcels 04-0000	016.001, 04-00117002	and 04-00117003 were never paid a bonus or rental so they are okay to lease.			
7/11/2018	2018 Mrs. Knierman called Mr. DoRemus and verified Eclipse was onboard w/ Chesapeake's proposed plan for parcels Eclipse had no interest in extending and the deep rights under the Miller-Hines well (Parcels 04-00205.000						
	and 04-00205.001). Mrs. Knierman gave the following notes: verified intent to acquire apparent HBP acreage (Parcels 04-0000205.000 and 04-0000205.001) for the target formations pending certain title verification						
	requirments, indicated Chesapeake was okay to initiate top leasing on remaining parcels (Parcels 04-0000115.002, 04-0000252.002, and 04-0000264.000) set to expire before anticipated SPUD. With respect to Parcels 04-						
	0000016.001, 04-00117002, and 04-00117003, Eclipse either never paid the bonus or rental so it is okay for CHK to lease.						
7/12/2018	018 Mrs. Knierman emailed Mr. DoRemus copies of the Miller/Hines leases for Parcels 04-0000205.000 and 04-0000205.001.						
7/16/2018	018 Mr. DoRemus emailed Mrs. Knierman offered to acquire apparent HBP acreage (Parcels 04-0000205.000 and 04-0000205.001) for the target formations. Mrs. Knierman accepted initial terms clearing the way to move						
	forward with top leasing efforts and acquisition of HBP acreage.						
8/2/2018	018 Mr. DoRemus emailed Mrs. Knierman requesting production information from Miller/Hines & Mizer Farms #3 well.						
		an requesting production information from Miller/Hin					
8/16/2018	2018 Mrs. Knierman emailed Mr. DoRemus to follow up and report still waiting on info from the operator of the shallow wells Miller Hines and Mizer Farms 3Mr. DoRemus emailed Mrs. Knierman requesting curative items for						
	producing Miller Hines well.						
8/23/2018	2018 Darren Stewart, Landman II of Chesapeake Energy, emailed Mrs. Knierman proposed Letter Agreement and Assignment. Mrs. Knierman emailed items connected to Parcels 04-0000205.000 and 04-0000205.001						
	(Diversified JUA) and curative info regarding Miller Hines well. These items were deemed insufficiant to cure the title defect(s) on Parcel 04-00205.001.						
	9/6/2018 Informed Mrs. Knierman attorney had reached out to Mr. DoRemus regarding revenue payments for Mr. Miller Jr regarding Parcel 04-0000205.000.						
				001, and 29-0000745.000 and Chesapeake's planned course of action.			
9/24/2018		-		04-0000205.000 and 04-0000205.001 would likely be removed from the current deal to allow more			
		acquisition of Parcels 04-0000205.000 and 04-000020					
10/2/2018			Chesapeake will use this	base Letter Agreement and general Assignment terms to acquire deep rights in parcels 04-			
	0000205.000, 04-0000205.001 once curative l						
10/5/2018	Mr. Kurtz, Senior Vice President at Diversified	Gas and Oil, emailed to state they are working on cur	ative items for Parcels (04-0000205.000, 04-0000205.001, and 29-0000745.000			

le 10/11/2018 L 12/19/2018 N 1/3/2019 N	lease parcel 04-0000205.001 if certain curative Upon the belief that this particular tract is unle Mr. Shaffer left a voicemail for Teresa K. Hines	e items could not be obtained. eased, Scott Shaffer of DPS Land Services called James		.001 as well as 29-0000745.000 requesting curative items. Further relayed CHK's intention to top					
10/11/2018 L 12/19/2018 N 1/3/2019 N	Upon the belief that this particular tract is unle Mr. Shaffer left a voicemail for Teresa K. Hines	eased, Scott Shaffer of DPS Land Services called James	E Hines and left a void						
12/19/2018 N 1/3/2019 N	Mr. Shaffer left a voicemail for Teresa K. Hines		10/11/2018 Upon the belief that this particular tract is unleased, Scott Shaffer of DPS Land Services called James F. Hines and left a voicemail requesting a call back to discuss signing an oil and gas lease.						
1/3/2019 N		12/19/2018 Mr. Shaffer left a voicemail for Teresa K. Hines, the wife of James F. Hines requesting a call back.							
	1/3/2019 Mr. Shaffer spoke with Teresa K. Hines by phone. Among other things, Mr. Shaffer confirmed with Mrs. Hines that they received a copy of the notice of hearing for the Smith Unit hearing. Mrs. Hines had questions about								
leasing but she noted that she had received a check from Eclipse recently which she said they had cashed.									
Tract(s)	Parcel(s)	Unleased Mineral Interest Owner's Name	Address						
42, 43 & 44	04-0000525.000, 04-0000526.000, 04-	Donna J. McMillen	37475 Deersville						
,	0000527.000		Ridge Road						
			Cadiz, OH 43907						
Date			Commonto						
	Kaulaa Millar of Chasanaaka Enargy, called and	l left voicemail for Donna J. McMillen requesting a cal	Comments						
		DPS Land Services, LP, tried calling the phone number of							
	Mr. Miller mailed a contact letter to Donna J. N		on me but no answer.						
		len's siblings, who are also associated with this proper	ty but no one was hor	ne. He left contact letter and sample lease in door					
		PS Land Services, LP, mailed contact letter to Donna J.							
	29/2018 Mr. Shaffer stopped by Mrs. McMillen's house, but no one was home. He left a contact letter in door.								
	0/12/2018 Mr. Shaffer shipped proposed lease packet to Mrs. McMillen for review. 0/15/2018 Mr. Shaffer called and left voicemail for Mrs. McMillen requesting a call back regarding proposed lease offer.								
	10/15/2018 Mr. Shafter called and left voicemail for Mrs. McMillen requesting a call back regarding proposed lease offer. 10/26/2018 Mr. Shaffer called and left voicemail for Mrs. McMillen requesting a call back regarding proposed lease offer.								
	10/20/2018 Mr. Shaffer spoke with Mrs. McMillen by phone. Mrs. McMillen stated that she and her sisters (Ginger Held and Barbara Horner) were having Attorney John Tabacchi of Cadiz, Ohio review the proposed leases and that Mr.								
	Shaffer should check with Mr. Tabacchi later ir								
	11/9/2018 Mr. Shaffer called and left voicemail for Mr. Tabacchi requesting a call back regarding proposed lease offer.								
	11/3/2018 Mr. Shaffer called and spoke with the secretary for Mr. Tabacchi. She stated that Mr. Tabacchi was in court and that she would relay Mr. Shaffer's message to Mr. Tabacchi.								
	11/16/2018 Mr. Shaffer called and spoke with Mr. Tabacchi. Mr. Tabacchi stated that Donna McMillen, Ginger Held, and Barbara Horner would only lease if they were made a "best offer", but Mr. Tabacchi did not provide a counter								
offer, only stating that the current offer of financial terms was deemed insufficient.									
	21/2018 Mr. Shaffer called and left voicemail for Mr. Tabacchi requesting a call back.								
	8/2018 Mr. Shaffer called and left voicemail for Mr. Tabacchi requesting a call back.								
	Mr. Shaffer called and left voicemail for Mr. Ta								
12/18/2018 N	Mr. Shaffer called and spoke with the secretar	y for Mr. Tabacchi. She stated that Mr. Tabacchi was c	out of the office. Mr. Sh	affer made a verbal offer of increased financial terms.					
	Mr. Shaffer called and left voicemail for Mr. Ta	·							

Tract(s)	Parcel(s)	Unleased Mineral Interest Owner's Name	Address			
42, 43 & 44	04-0000525.000, 04-0000526.000, 04-	Ginger Held	644 Kerr Avenue			
	0000527.000		Cadiz, OH 43907			
Date			Comments			
10/16/2014	Kaylee Miller, of Chesapeake Energy, called an	d left voicemail for Ginger Held requesting a call back.				
		PPS Land Services, LP, called and left voicemail request	ting a call back.			
9/9/2015	Mr. Miller called and left voicemail requesting	a call back. He also mailed a contact letter.				
		ne was home. He left contact letter and sample lease i	n door.			
	Mr. Miller called and left voicemail requesting					
		PS Land Services, LP, mailed contact letter to Mrs. Hel	d.			
	Mr. Shaffer shipped proposed lease packet to					
	8 Mr. Shaffer stopped by Mrs. Held's house, no one was home. He left a contact letter on front porch.					
	18 Mr. Shaffer stopped by Mrs. Held's house, no one was home.					
	18 Mr. Shaffer stopped by Mrs. Held's house, no one was home. Mr. Shaffer left his contact information on the porch door.					
	8 Mr. Shaffer mailed an additional contact letter to Mrs. Held.					
	1.8 Mr. Shaffer spoke with Mrs. McMillen by phone. Mrs. McMillen stated that she and her sisters (Ginger Held and Barbara Horner) were having Attorney John Tabacchi of Cadiz, Ohio review the proposed leases and that Mr.					
	Shaffer should check with Mr. Tabacchi later in					
		abacchi requesting a call back regarding proposed leas				
		y for Mr. Tabacchi. She stated that Mr. Tabacchi was in				
	18 Mr. Shaffer called and spoke with Mr. Tabacchi. Mr. Tabacchi stated that Donna McMillen, Ginger Held, and Barbara Horner would only lease if they were made a "best offer", but Mr. Tabacchi did not provide a counter					
	offer, only stating that the current offer of financial terms was deemed insufficient. 18 Mr. Shaffer called and left voicemail for Mr. Tabacchi requesting a call back.					
		· · · · · · · · · · · · · · · · · · ·				
	8 Mr. Shaffer called and left voicemail for Mr. Tabacchi requesting a call back. 8 Mr. Shaffer called and left voicemail for Mr. Tabacchi requesting a call back.					
			ut of the office Mr. Sh	affer made a verbal offer of increased financial terms.		
		•	out of the office. Wir. Sh			
12/26/2018	8 Mr. Shaffer called and left voicemail for Mr. Tabacchi requesting a call back.					

Tract(s)	Parcel(s)	Unleased Mineral Interest Owner's Name	Address			
42, 43 & 44	04-0000525.000, 04-0000526.000, 04-	Barbara Jayne Horner	31811 YMCA Road			
	0000527.000		Tippecanoe, OH			
			44699			
Date			Comments			
9/1/2015	Chesapeake Representative, Dennis Miller of I	DPS Land Services, LP, called and left voicemail request	ting a call back.			
9/9/2015	Mr. Miller called and left voicemail requesting	a call back. He also mailed a contact letter.				
		house, but no one was home. He left contact letter an	d sample lease in door.			
10/20/2015	Mr. Miller called and left voicemail requesting	a call back.				
		PS Land Services, LP, mailed contact letter to Mrs. Ho	rner.			
	Mr. Shaffer shipped proposed lease packet to					
		file for Mrs. Horner but no answer and there is not a r				
		file for Mrs. Horner but no answer and there is not a r	mail box set up to leave	e a message.		
		o one was home. He left his contact letter in the door.				
	Mr. Shaffer called and left voicemail requesting	-				
		o one was home. Mr. Shaffer left his contact information				
			er Held and Barbara Ho	orner) were having Attorney John Tabacchi of Cadiz, Ohio review the proposed leases and that Mr.		
	Shaffer should check with Mr. Tabacchi later in					
		abacchi requesting a call back regarding proposed leas				
		y for Mr. Tabacchi. She stated that Mr. Tabacchi was i				
	18 Mr. Shaffer called and spoke with Mr. Tabacchi. Mr. Tabacchi stated that Donna McMillen, Ginger Held, and Barbara Horner would only lease if they were made a "best offer", but Mr. Tabacchi did not provide a counter					
	offer, only stating that the current offer of financial terms was deemed insufficient.					
	18 Mr. Shaffer called and left voicemail for Mr. Tabacchi requesting a call back.					
	Mr. Shaffer called and left voicemail for Mr. Ta	· · ·				
	Mr. Shaffer called and left voicemail for Mr. Tabacchi requesting a call back.					
		•	out of the office. Mr. Sh	affer made a verbal offer of increased financial terms.		
12/26/2018	Mr. Shaffer called and left voicemail for Mr. Ta	abacchi requesting a call back.				

Tract(s)	Parcel(s)	Unleased Mineral Interest Owner's Name	Address				
47	04-0000550.000	The Known and Unknown Heirs, Successors,	5744 South Main				
		Devisees, Or Assigns of Edwin R. Finical:	Street				
		c/o Doris Maxine Finical	Akron, OH 44319				
Date			Comments				
7/23/2018	Chesapeake Representative, George Hearthwa	ay of DPS Land Services, LP, discovered that Edward R. I	Finical is deceased. He	called and spoke to Edward R. Finical's son, Steven Finical, regarding new lease proposal. Steven			
	Finical requested that Mr. Hearthway email hi	m the proposed lease for review.					
8/1/2018	Mr. Hearthway called and left a voicemail for t	Steven Finical requesting a call back.					
9/6/2018	Mr. Hearthway called and left a voicemail for t	Steven Finical requesting a call back.					
9/11/2018	Mr. Hearthway spoke with Steven Finical by pl	none. Mr. Finical promised he would email a copy of Ec	win's last will and test	ament.			
9/12/2018	Mr. Hearthway emailed Steven Finical propose	ed lease packet for review.					
9/17/2018	Steven Finical said he had located a father of h	is copy's will and would mail it to DPS's address.					
9/28/2018	Steven Finical emailed Mr. Hearthway to infor	m him that his mother, Doris Maxine Finical, is going to	o have her attorney rev	view the proposed lease. He said he would be out of town for the next few weeks and would get			
	back to him when he returned.						
10/4/2018	Mr. Hearthway called and left a voice message	e on Steven Finical's cell phone.					
		Finical stating that he was on vacation, but that he pla					
				. Mr. Finical planned on meeting with an attorney the following week.			
				R. Finical. Mr. Finical said he would send it right over. A review of the last will and testament			
		succeeded to any mineral interest owned by Edwin R.	Finical.				
	Mr. Hearthway sent an email to Steven Finical	-					
		to ask if it was OK for Mr. Hearthway to provide Steve	n Finical's email to Car	son Finical, the son of Thomas N. Finical, Jr.			
	Mr. Hearthway called and left a voice message						
				. Hearthway to forward previous emails between the two of them.			
		Hearthway explained to him the process for probating					
		to follow up. Mr. Finical replied by apologizing for the					
		stating that he had passed Mr. Hearthway's information					
		a by phone to discuss the situation. Mr. Hearthway fol	lowed up by emailing I	Mr. Musarra some relevant title information to help faciliate probate and the drafting of a			
	certificate of transfer.						
	Mr. Hearthway called and left a voice message						
	2018 Mr. Hearthway coordinated with Mr. Musarra to set up a phone call for the following day.						
	2018 Mr. Hearthway spoke with Mr. Musarra who promised to proceed with an affidavit declaring his client's mineral interest.						
	2018 Mr. Hearthway sent a follow up email to Mr. Musarra.						
		Ausarra containing a Microsoft Word version of an affi					
12/19/2018	Mr. Musarra emailed Mr. Hearthway a copy of	f the last will and testament along with an executed aff	fidavitr of death and he	eirship. Mr. Musarra also indicated that he would be out of the office until the new year.			

Tract(s)	Parcel(s)	Unleased Mineral Interest Owner's Name	Address			
47	04-0000550.000	John R. Finical and The Northern Trust Bank of	1170 Kiawah Loop			
		Florida N.A., Co-Trustees of the John A. Finical	Murrells Inlet, SC			
		Declaration of Trust Dated June 2, 1976. As	29576			
		Restated March				
		6,1985, First Amendment Dated May 30,1989,				
		Second Amendment Dated April 5, 1993, Third				
		Amendment Dated October 3,1995(GST Exempt				
		Trust A and GST Non-Exempt Trust A and GST				
		Exempt Trust B and GST Non-Exempt Trust B)				
Date			Comments			
8/29/2018		-		ng a call back. He also called and left a voicemail for Kelly Buist at Northern Trust Bank requesting		
		t a voicemail for Clark B. Finical. He tried calling Mark A				
8/30/2018		hern Trust Bank via phone. Mr. Hearthway explained th	e chain of title to Mr. E	Buist. Mr. Buist said he was not aware of the situation and would do some due diligence on his		
	end. He said he would call him back.					
		one. He requested that Mr. Hearthway email him the p				
		. Mr. Finical said that due to Hurricane Florence he has				
10/2/2018			Buist and that he unde	rstands the situation. Me. Finical said that he would, as a preliminary matter, try to hunt down all		
11/5/2010	of the trust documentation that he has in his	·	P 1 1 1 1 1 1 1			
		n R. Finical had been in touch with relatives and had ind		d all sign together once a final deal has been reached.		
		inical and Mr. Buist notifying them that lease terms hav	le been agreed to.			
		ch included a copy of the trust and amendments.	A dalama an			
Tract(s)	Parcel(s)	Unleased Mineral Interest Owner's Name	Address			
47	04-0000550.000	The Known and Unknown Heirs, Successors,	105 Windermere			
		Devisees, Or Assigns of William R. Finical, deceased,	Drive St. Clairsville, OH			
		and Joanne Elizabeth Finical, deceased: William C. Finical	43950			
		William C. Finical	45950			
Date			Comments			
8/17/2018	Chesapeake Representative, George Hearthw	ay of DPS Land Services, LP, tried calling phone number	on file but it was disco	onnected.		
8/29/2018		eth Finical died on 6/16/2018. He found that her survivi	ing heirs are William C.	Finical, Allan C. Finical and Robin A. Moser. Mr. Hearthway drove by William C. Finical's house and		
	left contact letter in door.					
8/30/2018	Mr. Hearthway spoke to William C. Finical via	phone regarding new lease proposal. Mr. Finical reque	sted that he email him	the lease so he could review.		
9/4/2018	4/2018 Mr. Hearthway emailed William C. Finical requesting Joanne Elizabeth Finical's trust documentation.					

0/7/2010						
	William C. Finical emailed Mr. Hearthway his brother, Allan C. Finical's contact information. Mr. Hearthway contacted Allan C. Finical, via email and Mr. Finical informed him that the interest was not part of the trust and					
	would email him a copy of the will conveying the interest to the three siblings.					
	Mr. Hearthway emailed new proposed lease packet to Mr. Finical to review.					
		nform him that they are still reviewing the lease.				
		phone. Mr. Finical requested certain lease riders, bonu	s amount and royalty i	nterest.		
	Mr. Hearthway emailed a counter off to Mr. F					
	Mr. Hearthway called and left Mr. Finical a vo					
		ical, who stated he is currently in conversations with h	is brother, sisters, and	cousins about leasing. William C. Finical, Allan C. Finical, and Robin A. Moser are expected to lease		
	jointly.					
	Mr. Hearthway sent another counter offer to					
	Mr. Hearthway sent another email to Mr. Fini					
		and told him the financial terms he was requesting we				
	-			vay replied that his previous counter offer was likewise firm.		
		phone. Mr. Finical indicated that he and his relatives w	ould accept Mr. Heart	hway's previous counter offer of financial terms.		
		mail requesting a copy of the last will and testament.				
	Mr. Hearthway called and left Mr. Allan Finica					
				d Robin A. Moser would be reaching out to Mr. Hearthway shortly.		
		led Mr. Hearthway contact information Abbie Obenou				
		ons about how to navigate ODNR's oil and gas webpage				
12/31/2018		y of Joanne Ezliabeth Finical's last will and testament a	and other documentati	on.		
Tract(s)	Parcel(s)	Unleased Mineral Interest Owner's Name	Address			
47	04-0000550.000	The Known and Unknown Heirs, Successors,				
	04-0000550.000	The known and Olknown Heirs, Successors,	8527 Groveland Ct			
		Devisees, Or Assigns of William R. Finical, deceased	New Albany, OH			
		Devisees, Or Assigns of William R. Finical, deceased and Joanne Elizabeth Finical, deceased:				
		Devisees, Or Assigns of William R. Finical, deceased	New Albany, OH			
		Devisees, Or Assigns of William R. Finical, deceased and Joanne Elizabeth Finical, deceased:	New Albany, OH			
		Devisees, Or Assigns of William R. Finical, deceased and Joanne Elizabeth Finical, deceased:	New Albany, OH			
		Devisees, Or Assigns of William R. Finical, deceased and Joanne Elizabeth Finical, deceased:	New Albany, OH			
Date		Devisees, Or Assigns of William R. Finical, deceased and Joanne Elizabeth Finical, deceased: Allan C. Finical	New Albany, OH 43054 Comments			
8/17/2018	Chesapeake Representative, George Hearthwa	Devisees, Or Assigns of William R. Finical, deceased and Joanne Elizabeth Finical, deceased: Allan C. Finical ay of DPS Land Services, LP, tried calling phone number	New Albany, OH 43054 Comments on file but it was disco			
8/17/2018	Chesapeake Representative, George Hearthwa	Devisees, Or Assigns of William R. Finical, deceased and Joanne Elizabeth Finical, deceased: Allan C. Finical ay of DPS Land Services, LP, tried calling phone number	New Albany, OH 43054 Comments on file but it was disco	onnected. . Finical, Allan C. Finical and Robin A. Moser. Mr. Hearthway drove by William C. Finical's house and		
8/17/2018 8/29/2018	Chesapeake Representative, George Hearthwa	Devisees, Or Assigns of William R. Finical, deceased and Joanne Elizabeth Finical, deceased: Allan C. Finical ay of DPS Land Services, LP, tried calling phone number	New Albany, OH 43054 Comments on file but it was disco			
8/17/2018 8/29/2018 8/30/2018	Chesapeake Representative, George Hearthwa Mr. Hearthway discovered that Joanne Elizaba left contact letter in door. Mr. Hearthway spoke to William C. Finical via	Devisees, Or Assigns of William R. Finical, deceased and Joanne Elizabeth Finical, deceased: Allan C. Finical ay of DPS Land Services, LP, tried calling phone number eth Finical died on 6/16/2018. He found that her surviv phone regarding new lease proposal. Mr. Finical reque	New Albany, OH 43054 Comments To n file but it was disco ing heirs are William C sted that he email him	Finical, Allan C. Finical and Robin A. Moser. Mr. Hearthway drove by William C. Finical's house and		
8/17/2018 8/29/2018 8/30/2018 9/4/2018	Chesapeake Representative, George Hearthwa Mr. Hearthway discovered that Joanne Elizabe left contact letter in door. Mr. Hearthway spoke to William C. Finical via Mr. Hearthway emailed William C. Finical requ	Devisees, Or Assigns of William R. Finical, deceased and Joanne Elizabeth Finical, deceased: Allan C. Finical ay of DPS Land Services, LP, tried calling phone number eth Finical died on 6/16/2018. He found that her surviv phone regarding new lease proposal. Mr. Finical reque Jesting Joanne Elizabeth Finical's trust documentation.	New Albany, OH 43054 Comments To n file but it was disco ing heirs are William C sted that he email him	Finical, Allan C. Finical and Robin A. Moser. Mr. Hearthway drove by William C. Finical's house and the lease so he could review.		
8/17/2018 8/29/2018 8/30/2018 9/4/2018	Chesapeake Representative, George Hearthwa Mr. Hearthway discovered that Joanne Elizabe left contact letter in door. Mr. Hearthway spoke to William C. Finical via Mr. Hearthway emailed William C. Finical requ	Devisees, Or Assigns of William R. Finical, deceased and Joanne Elizabeth Finical, deceased: Allan C. Finical ay of DPS Land Services, LP, tried calling phone number eth Finical died on 6/16/2018. He found that her surviv phone regarding new lease proposal. Mr. Finical reque Jesting Joanne Elizabeth Finical's trust documentation.	New Albany, OH 43054 Comments To n file but it was disco ing heirs are William C sted that he email him	Finical, Allan C. Finical and Robin A. Moser. Mr. Hearthway drove by William C. Finical's house and		
8/17/2018 8/29/2018 8/30/2018 9/4/2018 9/7/2018	Chesapeake Representative, George Hearthwa Mr. Hearthway discovered that Joanne Elizabe left contact letter in door. Mr. Hearthway spoke to William C. Finical via Mr. Hearthway emailed William C. Finical requ	Devisees, Or Assigns of William R. Finical, deceased and Joanne Elizabeth Finical, deceased: Allan C. Finical ay of DPS Land Services, LP, tried calling phone number eth Finical died on 6/16/2018. He found that her surviv phone regarding new lease proposal. Mr. Finical reque uesting Joanne Elizabeth Finical's trust documentation. prother, Allan C. Finical's, contact information. Mr. Hea	New Albany, OH 43054 Comments To n file but it was disco ing heirs are William C sted that he email him	Finical, Allan C. Finical and Robin A. Moser. Mr. Hearthway drove by William C. Finical's house and the lease so he could review.		
8/17/2018 8/29/2018 8/30/2018 9/4/2018 9/7/2018	Chesapeake Representative, George Hearthwa Mr. Hearthway discovered that Joanne Elizabe left contact letter in door. Mr. Hearthway spoke to William C. Finical via Mr. Hearthway emailed William C. Finical requ William C. Finical emailed Mr. Hearthway his l	Devisees, Or Assigns of William R. Finical, deceased and Joanne Elizabeth Finical, deceased: Allan C. Finical ay of DPS Land Services, LP, tried calling phone number eth Finical died on 6/16/2018. He found that her surviv phone regarding new lease proposal. Mr. Finical reque Jesting Joanne Elizabeth Finical's trust documentation. prother, Allan C. Finical's, contact information. Mr. Hea the interest to the three siblings.	New Albany, OH 43054 Comments To n file but it was disco ing heirs are William C sted that he email him	Finical, Allan C. Finical and Robin A. Moser. Mr. Hearthway drove by William C. Finical's house and the lease so he could review.		
8/17/2018 8/29/2018 8/30/2018 9/4/2018 9/7/2018 9/10/2018	Chesapeake Representative, George Hearthw Mr. Hearthway discovered that Joanne Elizabe left contact letter in door. Mr. Hearthway spoke to William C. Finical via Mr. Hearthway emailed William C. Finical requ William C. Finical emailed Mr. Hearthway his I would email him a copy of the will conveying Mr. Hearthway emailed new proposed lease p	Devisees, Or Assigns of William R. Finical, deceased and Joanne Elizabeth Finical, deceased: Allan C. Finical ay of DPS Land Services, LP, tried calling phone number eth Finical died on 6/16/2018. He found that her surviv phone regarding new lease proposal. Mr. Finical reque Jesting Joanne Elizabeth Finical's trust documentation. prother, Allan C. Finical's, contact information. Mr. Hea the interest to the three siblings.	New Albany, OH 43054 Comments To n file but it was disco ing heirs are William C sted that he email him	Finical, Allan C. Finical and Robin A. Moser. Mr. Hearthway drove by William C. Finical's house and the lease so he could review.		
8/17/2018 8/29/2018 8/30/2018 9/4/2018 9/7/2018 9/10/2018 9/10/2018	Chesapeake Representative, George Hearthw Mr. Hearthway discovered that Joanne Elizabe left contact letter in door. Mr. Hearthway spoke to William C. Finical via Mr. Hearthway emailed William C. Finical requ William C. Finical emailed Mr. Hearthway his l would email him a copy of the will conveying Mr. Hearthway emailed new proposed lease p William C. Finical emailed Mr. Hearthway to in	Devisees, Or Assigns of William R. Finical, deceased and Joanne Elizabeth Finical, deceased: Allan C. Finical ay of DPS Land Services, LP, tried calling phone number eth Finical died on 6/16/2018. He found that her surviv phone regarding new lease proposal. Mr. Finical reque Jesting Joanne Elizabeth Finical's trust documentation. orother, Allan C. Finical's, contact information. Mr. Hea the interest to the three siblings. backet to Mr. Finical to review.	New Albany, OH 43054 Comments Toon file but it was disco ing heirs are William C sted that he email him rthway contacted Alla	Finical, Allan C. Finical and Robin A. Moser. Mr. Hearthway drove by William C. Finical's house and the lease so he could review. n C. Finical via email and Mr. Finical informed him that the interest was not part of the trust and		
8/17/2018 8/29/2018 9/4/2018 9/4/2018 9/7/2018 9/10/2018 9/20/2018 9/20/2018	Chesapeake Representative, George Hearthw Mr. Hearthway discovered that Joanne Elizabe left contact letter in door. Mr. Hearthway spoke to William C. Finical via Mr. Hearthway emailed William C. Finical requ William C. Finical emailed Mr. Hearthway his l would email him a copy of the will conveying Mr. Hearthway emailed new proposed lease p William C. Finical emailed Mr. Hearthway to in	Devisees, Or Assigns of William R. Finical, deceased and Joanne Elizabeth Finical, deceased: Allan C. Finical ay of DPS Land Services, LP, tried calling phone number eth Finical died on 6/16/2018. He found that her surviv phone regarding new lease proposal. Mr. Finical reque uesting Joanne Elizabeth Finical's trust documentation. prother, Allan C. Finical's, contact information. Mr. Hea the interest to the three siblings. backet to Mr. Finical to review. form him that they are still reviewing the lease. phone. Mr. Finical requested certain lease riders, bonu	New Albany, OH 43054 Comments Toon file but it was disco ing heirs are William C sted that he email him rthway contacted Alla	Finical, Allan C. Finical and Robin A. Moser. Mr. Hearthway drove by William C. Finical's house and the lease so he could review. n C. Finical via email and Mr. Finical informed him that the interest was not part of the trust and		

10/16/2019	Mr. Hoarthway aychangod amails with Mr. Ein	sical who stated he is surrently in conversations with hi	is brothor sistors and	Louising about logging William C. Einical, Allan C. Einical, and Pohin A. Masor are expected to logge		
10/10/2018	Mr. Hearthway exchanged emails with Mr. Finical, who stated he is currently in conversations with his brother, sisters, and cousins about leasing. William C. Finical, Allan C. Finical, and Robin A. Moser are expected to lease jointly.					
10/10/2019	Mr. Hearthway sent another counter offer to Mr. Finical via email.					
	Mr. Hearthway sent another counter offer to Mr. Finical via email. Mr. Hearthway sent another email to Mr. Finical.					
		and told him the financial terms he was requesting wer	re firm			
				way replied that his previous counter offer was likewise firm.		
		phone. Mr. Finical indicated that he and his relatives we				
		email requesting a copy of the last will and testament.				
	Mr. Hearthway called and left Mr. Allan Finica					
			l, William C. Finical, ar	nd Robin A. Moser would be reaching out to Mr. Hearthway shortly.		
		iled Mr. Hearthway contact information Abbie Obenour		, , ,		
		ons about how to navigate ODNR's oil and gas webpage				
		by of Joanne Ezliabeth Finical's last will and testament a		ion.		
Tract(s)	Parcel(s)	Unleased Mineral Interest Owner's Name	Address			
47	04-0000550.000	The Known and Unknown Heirs, Successors,	415 W Main St			
		Devisees, Or Assigns of William R. Finical, deceased	Barnesville, OH			
		and Joanne Elizabeth Finical, deceased:	43713			
		Robin A. Moser				
Date			Comments			
	· · · ·	ay of DPS Land Services, LP, tried calling phone number				
		eth Finical died on 6/16/2018. He found that her survivi	ng heirs are William C	C. Finical, Allan C. Finical and Robin A. Moser. Mr. Hearthway drove by William C. Finical's house and		
	left contact letter in door.					
		phone regarding new lease proposal. Mr. Finical reques	sted that he email him	the lease so he could review.		
		uesting Joanne Elizabeth Finical's trust documentation.				
			thway contacted Alla	n C. Finical via email and Mr. Finical informed him that the interest was not part of the trust and		
	would email him a copy of the will conveying					
	Mr. Hearthway emailed new proposed lease p					
	•	nform him that they are still reviewing the lease.				
		phone. Mr. Finical requested certain lease riders, bonus	s amount and royalty	interest.		
	Mr. Hearthway emailed a counter off to Mr. Finical.					
	8 Mr. Hearthway called and left Mr. Finical a voice message. 8 Mr. Hearthway exchanged emails with Mr. Finical, who stated he is currently in conversations with his brother, sisters, and cousins about leasing. William C. Finical, Allan C. Finical, and Robin A. Moser are expected to lease					
		nical, who stated he is currently in conversations with hi	is prother, sisters, and	cousins about leasing. William C. Finical, Alian C. Finical, and Robin A. Moser are expected to lease		
	jointly. Mr. Hearthway sent another counter offer to	Mr. Finical via email				
	Mr. Hearthway sent another counter offer to Mr. Hearthway sent another email to Mr. Fini					
			re firm			
		and fold nim the financial ferms ne was reducering we				
11/12/2010		and told him the financial terms he was requesting wer		way renlied that his previous counter offer was likewise firm		
	Mr. William C. Finical emailed Mr. Hearthway		nsidered. Mr. Hearth	way replied that his previous counter offer was likewise firm.		

12/13/2018 Mr. Hearthway sent Allan Finical a follow up email requesting a copy of the last will and testament. 12/20/2018 Mr. Hearthway called and left Mr. Allan Finical a voicemail.					
12/21/2018 Mr. Allan Finical emailed Mr. Hearthway stating that the attorney, Abbie Obenour, for Allan C. Finical, William C. Finical, and Robin A. Moser would be reaching out to Mr. Hearthway shortly.					
		iled Mr. Hearthway contact information Abbie Obenou		in the set would be reaching out to with the attitivity shortly.	
· · · · ·		ons about how to navigate ODNR's oil and gas webpage			
		by of Joanne Ezliabeth Finical's last will and testament a		ion.	
Tract(s)	Parcel(s)	Unleased Mineral Interest Owner's Name	Address		
47	04-0000550.000	The Known and Unknown Heirs, Successors,	2661 N. Bahana		
		Devisees, Or Assigns of Thomas Nelson Finical, Sr.:	Drive		
		Irvin E. Finical	Tucson, AZ 85715		
Date			Comments		
	Chesaneake Representative George Hearthw	av of DPS Land Services I.P. tried calling the phone num		wer and there is not a mail box set up to leave a message.	
		er on file but no answer and there is not a mail box set u			
	Mr. Hearthway mailed out contact letter to Ir				
	•		ne. Douglas, would be	the point of contact for this negotiation as well going forward.	
			-	plained that he wanted to loop his cousin, Carson, into the discussion. Douglas stated that he	
	would have Carson email Mr. Hearthway.	5 1 11			
11/8/2018	Mr. Hearthway emailed a proposed lease pac	ket for Irvin E. Finical to Doug Finical.			
11/28/2018	Doug Finical informed Mr. Hearthway that the	e proposed lease has been executed and is being mailed	d back to him.		
12/10/2018	Mr. Hearthway sent Doug Finical an email info	orming Mr. Finical that he had still not received his fath	er's fully executed leas	se packet back in the mail yet.	
12/19/2018	Mr. Hearthway emailed Doug Finical requesti	ng an update.			
12/20/2018	Mr. Hearthway called Doug Finical and left a v				
Tract(s)	Parcel(s)	Unleased Mineral Interest Owner's Name	Address		
47	04-0000550.000	The Known and Unknown Heirs, Successors,	2661 N. Bahana		
		Devisees, or Assigns of James Douglas Finical,	Drive		
		Deceased:	Tucson, AZ 85715		
		Douglas M. Finical			
Date			Comments		
	Chesapeake Representative, George Hearthw	av of DPS Land Services TP, called and left a voicemail		ee if he had any information regarding his brother, James.	
		one and tried to ask him about his brother's interest bu			
	· · ·			mily member, Scott Finical, an attorney located in Arizona would be handling his uncle's estate. He	
		assing that split his interest three ways. Mr. Hearthway			
		, ,			
10/8/2018	Mr. Hearthway emailed Scott Finical.				
	10/15/2018 Mr. Hearthway spoke with Scott Finical by phone. Scott Finical informed Mr. Hearthway that Douglas Finical would be handling this lease negotiation.				

10/26/2018	10/26/2018 Mr. Hearthway requested the last will and testament of James Douglas Finical from Carson Finical and Doug Finical.					
	11/7/2018 Mr. Hearthway received an email from Doug Finical which included a copy of the last will and testament of James Douglas Finical as an attachment. Mr. Hearthway replied requesting all pertinent information concerning					
	Douglas M. Finical, Leslie M. Jaubert, and T. Carson Finicalthe devisees named in the last will and testament of James Douglas Finical who would have succeeded to his mineral interest.					
11/27/2018	Mr. Hearthway received an email from Doug F	inical's attorney which clarified Doug's present owners	ship issue stemming fro	om the last will and testament.		
11/29/2018	Mr. Hearthway emailed Doug Finical and Lesli	e Jaubert requesting their current addresses.				
12/3/2018	Mr. Hearthway sent a text message to Doug F	inical requesting his current address.				
12/10/2018	Mr. Hearthway sent a follow up email to Doug	Finical requesting his current address.				
12/11/2018	Mr. Hearthway emailed Doug Finical to follow	up.				
	Mr. Hearthway mailed Doug Finical a copy of a					
	Mr. Hearthway emailed T. Carson Finical a cor					
	Mr. Hearthway received confirmation that the					
Tract(s)	Parcel(s)	Unleased Mineral Interest Owner's Name	Address			
47	04-0000550.000	The Known and Unknown Heirs, Successors,	253 Doyle Drive			
		Devisees, or Assigns of James Douglas Finical,	Santa Rose, CA			
		Deceased:	95405			
		Leslie M. Jaubert				
Data			Commonts			
Date	Chesaneake Representative. George Hearthw	av of DPS Land Services J.P. called and left a voicemail i	Comments	ee if he had any information regarding his brother James		
8/29/2018			for Thomas Finical to se	ee if he had any information regarding his brother, James. him before a discussion began		
8/29/2018 8/30/2018	Mr. Hearthway reached Thomas Finical via ph	one and tried to ask him about his brother's interest bu	for Thomas Finical to se ut Thomas hung up on	him before a discussion began.		
8/29/2018 8/30/2018 10/3/2018	Mr. Hearthway reached Thomas Finical via ph Mr. Hearthway called and spoke to James Dou	one and tried to ask him about his brother's interest bu Iglas Finical's nephew, Douglas Finical. Douglas Finical i	for Thomas Finical to so ut Thomas hung up on nformed him that a fai	him before a discussion began. mily member, Scott Finical, an attorney located in Arizona would be handling his uncle's estate. He		
8/29/2018 8/30/2018 10/3/2018	Mr. Hearthway reached Thomas Finical via ph Mr. Hearthway called and spoke to James Dou	one and tried to ask him about his brother's interest bu	for Thomas Finical to so ut Thomas hung up on nformed him that a fai	him before a discussion began. mily member, Scott Finical, an attorney located in Arizona would be handling his uncle's estate. He		
8/29/2018 8/30/2018 10/3/2018	Mr. Hearthway reached Thomas Finical via ph Mr. Hearthway called and spoke to James Dou said that there was a will probated upon his p	one and tried to ask him about his brother's interest bu Iglas Finical's nephew, Douglas Finical. Douglas Finical i	for Thomas Finical to so ut Thomas hung up on nformed him that a fai	him before a discussion began. mily member, Scott Finical, an attorney located in Arizona would be handling his uncle's estate. He		
8/29/2018 8/30/2018 10/3/2018 10/8/2018	Mr. Hearthway reached Thomas Finical via ph Mr. Hearthway called and spoke to James Dou said that there was a will probated upon his p Mr. Hearthway emailed Scott Finical.	one and tried to ask him about his brother's interest bu Iglas Finical's nephew, Douglas Finical. Douglas Finical i assing that split his interest three ways. Mr. Hearthway	for Thomas Finical to so at Thomas hung up on nformed him that a fai called and left a voice	him before a discussion began. mily member, Scott Finical, an attorney located in Arizona would be handling his uncle's estate. He mail for Scott Finical requesting a call back.		
8/29/2018 8/30/2018 10/3/2018 10/8/2018 10/15/2018	Mr. Hearthway reached Thomas Finical via ph Mr. Hearthway called and spoke to James Dou said that there was a will probated upon his p Mr. Hearthway emailed Scott Finical. Mr. Hearthway spoke with Scott Finical by pho	one and tried to ask him about his brother's interest bu Iglas Finical's nephew, Douglas Finical. Douglas Finical i assing that split his interest three ways. Mr. Hearthway one. Scott Finical informed Mr. Hearthway that Douglas	for Thomas Finical to so at Thomas hung up on nformed him that a fai called and left a voice s Finical would be hance	him before a discussion began. mily member, Scott Finical, an attorney located in Arizona would be handling his uncle's estate. He mail for Scott Finical requesting a call back.		
8/29/2018 8/30/2018 10/3/2018 10/8/2018 10/15/2018 10/26/2018	Mr. Hearthway reached Thomas Finical via ph Mr. Hearthway called and spoke to James Dou said that there was a will probated upon his p Mr. Hearthway emailed Scott Finical. Mr. Hearthway spoke with Scott Finical by pho Mr. Hearthway requested the last will and tes	one and tried to ask him about his brother's interest bu iglas Finical's nephew, Douglas Finical. Douglas Finical i assing that split his interest three ways. Mr. Hearthway one. Scott Finical informed Mr. Hearthway that Douglas tament of James Douglas Finical from Carson Finical an	for Thomas Finical to so at Thomas hung up on nformed him that a fai called and left a voice s Finical would be hance d Doug Finical.	him before a discussion began. mily member, Scott Finical, an attorney located in Arizona would be handling his uncle's estate. He mail for Scott Finical requesting a call back.		
8/29/2018 8/30/2018 10/3/2018 10/8/2018 10/15/2018 10/26/2018 11/7/2018	Mr. Hearthway reached Thomas Finical via ph Mr. Hearthway called and spoke to James Dou said that there was a will probated upon his p Mr. Hearthway emailed Scott Finical. Mr. Hearthway spoke with Scott Finical by pho Mr. Hearthway requested the last will and tes Mr. Hearthway received an email from Doug F	one and tried to ask him about his brother's interest bu Iglas Finical's nephew, Douglas Finical. Douglas Finical i assing that split his interest three ways. Mr. Hearthway one. Scott Finical informed Mr. Hearthway that Douglas tament of James Douglas Finical from Carson Finical an Finical which included a copy of the last will and testam	for Thomas Finical to so at Thomas hung up on nformed him that a fai called and left a voice s Finical would be hance ad Doug Finical. ent of James Douglas I	him before a discussion began. mily member, Scott Finical, an attorney located in Arizona would be handling his uncle's estate. He mail for Scott Finical requesting a call back. dling this lease negotiation.		
8/29/2018 8/30/2018 10/3/2018 10/8/2018 10/15/2018 10/26/2018 11/7/2018	Mr. Hearthway reached Thomas Finical via ph Mr. Hearthway called and spoke to James Dou said that there was a will probated upon his p Mr. Hearthway emailed Scott Finical. Mr. Hearthway spoke with Scott Finical by pho Mr. Hearthway requested the last will and tes Mr. Hearthway received an email from Doug F	one and tried to ask him about his brother's interest bu Iglas Finical's nephew, Douglas Finical. Douglas Finical i assing that split his interest three ways. Mr. Hearthway one. Scott Finical informed Mr. Hearthway that Douglas tament of James Douglas Finical from Carson Finical an Finical which included a copy of the last will and testam	for Thomas Finical to so at Thomas hung up on nformed him that a fai called and left a voice s Finical would be hance ad Doug Finical. ent of James Douglas I	him before a discussion began. mily member, Scott Finical, an attorney located in Arizona would be handling his uncle's estate. He mail for Scott Finical requesting a call back. dling this lease negotiation. Finical as an attachment. Mr. Hearthway replied requesting all pertinent information concerning		
8/29/2018 8/30/2018 10/3/2018 10/8/2018 10/15/2018 10/26/2018 11/7/2018	Mr. Hearthway reached Thomas Finical via ph Mr. Hearthway called and spoke to James Dou said that there was a will probated upon his p Mr. Hearthway emailed Scott Finical. Mr. Hearthway spoke with Scott Finical by pho Mr. Hearthway requested the last will and tes Mr. Hearthway received an email from Doug F	one and tried to ask him about his brother's interest bu Iglas Finical's nephew, Douglas Finical. Douglas Finical i assing that split his interest three ways. Mr. Hearthway one. Scott Finical informed Mr. Hearthway that Douglas tament of James Douglas Finical from Carson Finical an Finical which included a copy of the last will and testam arson Finicalthe devisees named in the last will and te	for Thomas Finical to so at Thomas hung up on nformed him that a fai called and left a voice s Finical would be hance ad Doug Finical. ent of James Douglas I	him before a discussion began. mily member, Scott Finical, an attorney located in Arizona would be handling his uncle's estate. He mail for Scott Finical requesting a call back. dling this lease negotiation. Finical as an attachment. Mr. Hearthway replied requesting all pertinent information concerning		
8/29/2018 8/30/2018 10/3/2018 10/8/2018 10/15/2018 10/26/2018 11/7/2018 11/7/2018	Mr. Hearthway reached Thomas Finical via ph Mr. Hearthway called and spoke to James Dou said that there was a will probated upon his p Mr. Hearthway emailed Scott Finical. Mr. Hearthway spoke with Scott Finical by pho Mr. Hearthway requested the last will and tes Mr. Hearthway received an email from Doug F Douglas M. Finical, Leslie M. Jaubert, and T. Ca	one and tried to ask him about his brother's interest bu Iglas Finical's nephew, Douglas Finical. Douglas Finical i assing that split his interest three ways. Mr. Hearthway one. Scott Finical informed Mr. Hearthway that Douglas tament of James Douglas Finical from Carson Finical an Finical which included a copy of the last will and testam arson Finicalthe devisees named in the last will and te e Jaubert requesting their current addresses.	for Thomas Finical to so at Thomas hung up on nformed him that a fai called and left a voice s Finical would be hance ad Doug Finical. ent of James Douglas I	him before a discussion began. mily member, Scott Finical, an attorney located in Arizona would be handling his uncle's estate. He mail for Scott Finical requesting a call back. dling this lease negotiation. Finical as an attachment. Mr. Hearthway replied requesting all pertinent information concerning		
8/29/2018 8/30/2018 10/3/2018 10/8/2018 10/15/2018 10/26/2018 11/7/2018 11/29/2018 12/3/2018	Mr. Hearthway reached Thomas Finical via ph Mr. Hearthway called and spoke to James Dou said that there was a will probated upon his p Mr. Hearthway emailed Scott Finical. Mr. Hearthway spoke with Scott Finical by pho Mr. Hearthway requested the last will and tes Mr. Hearthway received an email from Doug F Douglas M. Finical, Leslie M. Jaubert, and T. Ca Mr. Hearthway emailed Doug Finical and Lesli	one and tried to ask him about his brother's interest bu iglas Finical's nephew, Douglas Finical. Douglas Finical i assing that split his interest three ways. Mr. Hearthway one. Scott Finical informed Mr. Hearthway that Douglas tament of James Douglas Finical from Carson Finical an Finical which included a copy of the last will and testam arson Finicalthe devisees named in the last will and te e Jaubert requesting their current addresses. Jaubert which included her current address.	for Thomas Finical to so at Thomas hung up on nformed him that a fai called and left a voice s Finical would be hance ad Doug Finical. ent of James Douglas I	him before a discussion began. mily member, Scott Finical, an attorney located in Arizona would be handling his uncle's estate. He mail for Scott Finical requesting a call back. dling this lease negotiation. Finical as an attachment. Mr. Hearthway replied requesting all pertinent information concerning		
8/29/2018 8/30/2018 10/3/2018 10/8/2018 10/15/2018 10/26/2018 11/7/2018 11/7/2018 12/3/2018 12/18/2018 12/19/2018	Mr. Hearthway reached Thomas Finical via ph Mr. Hearthway called and spoke to James Dou said that there was a will probated upon his p Mr. Hearthway emailed Scott Finical. Mr. Hearthway spoke with Scott Finical by pho Mr. Hearthway requested the last will and tes Mr. Hearthway received an email from Doug F Douglas M. Finical, Leslie M. Jaubert, and T. Ca Mr. Hearthway emailed Doug Finical and Lesli Mr. Hearthway received an email from Leslie . Mr. Hearthway mailed Leslie Jaubert a copy of Mr. Hearthway emailed Leslie Jaubert a copy of	one and tried to ask him about his brother's interest bu Iglas Finical's nephew, Douglas Finical. Douglas Finical i assing that split his interest three ways. Mr. Hearthway one. Scott Finical informed Mr. Hearthway that Douglas tament of James Douglas Finical from Carson Finical an Finical which included a copy of the last will and testam arson Finicalthe devisees named in the last will and te e Jaubert requesting their current addresses. Jaubert which included her current address. f a proposed lease. of a proposed lease.	for Thomas Finical to so at Thomas hung up on informed him that a fai r called and left a voice s Finical would be hand ad Doug Finical. ent of James Douglas I estament of James Dou	him before a discussion began. mily member, Scott Finical, an attorney located in Arizona would be handling his uncle's estate. He mail for Scott Finical requesting a call back. dling this lease negotiation. Finical as an attachment. Mr. Hearthway replied requesting all pertinent information concerning		
8/29/2018 8/30/2018 10/3/2018 10/8/2018 10/15/2018 10/26/2018 11/7/2018 11/7/2018 12/3/2018 12/18/2018 12/19/2018	Mr. Hearthway reached Thomas Finical via ph Mr. Hearthway called and spoke to James Dou said that there was a will probated upon his p Mr. Hearthway emailed Scott Finical. Mr. Hearthway spoke with Scott Finical by pho Mr. Hearthway requested the last will and tes Mr. Hearthway received an email from Doug F Douglas M. Finical, Leslie M. Jaubert, and T. Ca Mr. Hearthway emailed Doug Finical and Lesli Mr. Hearthway received an email from Leslie . Mr. Hearthway mailed Leslie Jaubert a copy of Mr. Hearthway emailed Leslie Jaubert a copy of	one and tried to ask him about his brother's interest bu Iglas Finical's nephew, Douglas Finical. Douglas Finical i assing that split his interest three ways. Mr. Hearthway one. Scott Finical informed Mr. Hearthway that Douglas tament of James Douglas Finical from Carson Finical an Finical which included a copy of the last will and testam arson Finicalthe devisees named in the last will and te laubert requesting their current addresses. Jaubert which included her current address. f a proposed lease.	for Thomas Finical to so at Thomas hung up on informed him that a fai r called and left a voice s Finical would be hand ad Doug Finical. ent of James Douglas I estament of James Dou	him before a discussion began. mily member, Scott Finical, an attorney located in Arizona would be handling his uncle's estate. He mail for Scott Finical requesting a call back. dling this lease negotiation. Finical as an attachment. Mr. Hearthway replied requesting all pertinent information concerning		
8/29/2018 8/30/2018 10/3/2018 10/3/2018 10/15/2018 10/26/2018 11/7/2018 11/29/2018 12/3/2018 12/18/2018 12/19/2018 12/20/2018	Mr. Hearthway reached Thomas Finical via ph Mr. Hearthway called and spoke to James Dou said that there was a will probated upon his p Mr. Hearthway emailed Scott Finical. Mr. Hearthway spoke with Scott Finical by pho Mr. Hearthway requested the last will and tes Mr. Hearthway received an email from Doug F Douglas M. Finical, Leslie M. Jaubert, and T. Ca Mr. Hearthway emailed Doug Finical and Lesli Mr. Hearthway received an email from Leslie . Mr. Hearthway mailed Leslie Jaubert a copy of Mr. Hearthway emailed Leslie Jaubert a copy of	one and tried to ask him about his brother's interest build as Finical's nephew, Douglas Finical. Douglas Finical i assing that split his interest three ways. Mr. Hearthway one. Scott Finical informed Mr. Hearthway that Douglas tament of James Douglas Finical from Carson Finical an Finical which included a copy of the last will and testam arson Finicalthe devisees named in the last will and testamet which included her current addresses. Jaubert which included her current addresses. I a proposed lease.	for Thomas Finical to so at Thomas hung up on informed him that a fai r called and left a voice s Finical would be hand ad Doug Finical. ent of James Douglas I estament of James Dou	him before a discussion began. mily member, Scott Finical, an attorney located in Arizona would be handling his uncle's estate. He mail for Scott Finical requesting a call back. dling this lease negotiation. Finical as an attachment. Mr. Hearthway replied requesting all pertinent information concerning		

Tract(s)	Parcel(s)	Unleased Mineral Interest Owner's Name	Address			
47	04-0000550.000	The Known and Unknown Heirs, Successors,	26411 Marsala Way			
		Devisees, or Assigns of James Douglas Finical,	Mission Viejo, CA			
		Deceased:	92692			
		T. Carson Finical				
Date			Comments			
				ee if he had any information regarding his brother, James.		
		one and tried to ask him about his brother's interest b				
10/3/2018				mily member, Scott Finical, an attorney located in Arizona would be handling his uncle's estate. He		
	said that there was a will probated upon his pa	assing that split his interest three ways. Mr. Hearthway	y called and left a voice	mail for Scott Finical requesting a call back.		
	Mr. Hearthway emailed Scott Finical.					
		ne. Scott Finical informed Mr. Hearthway that Dougla		lling this lease negotiation.		
		ament of James Douglas Finical from Carson Finical ar	-			
	-		_	inical as an attachment. Mr. Hearthway replied requesting all pertinent information concerning		
	Douglas M. Finical, Leslie M. Jaubert, and T. Ca	rson Finicalthe devisees named in the last will and te	estament of James Dou	glas Finical who would have succeeded to his mineral interest.		
	Mr. Hearthway noted T. Carson Finical's curren					
	Mr. Hearthway mailed T. Carson Finical a copy					
	Mr. Hearthway emailed T. Carson Finical a cop					
	Mr. Hearthway received confirmation that the		A d due ee			
Tract(s) 47	Parcel(s) 04-0000550.000	Unleased Mineral Interest Owner's Name	Address			
47	04-0000550.000	Helen Ramsey A/K/A Helene Ramsey	1924 County Road 57			
			Irondale, OH 43932			
Data			Common to			
Date	Charanaaka Danrasantatiya Saatt Shaffar of D	PC Land Convisors I.D. mailed contact letter to Uplan Dr	Comments			
		PS Land Services, LP, mailed contact letter to Helen Ra		. Shaffer that his mother was in assisted living and ship him the proposed lease packet for review.		
8/3/2018	IVIT. Sharler spoke to Helen Kamsey's son, Crai	g Kamsey, regarding new lease proposal via phone. Mi	n Ramsey informed Mr	. Sharter that his mother was in assisted living and ship him the proposed lease packet for review.		
8/21/2010	Mr. Shaffer snoke to Mr. Pamsov via phone. H	e said he is still thinking over the lease offer and may g	tet an attornov to rovio	w the offer		
		Ramsey requesting a call back regarding the proposed		יי נוכ טוכו.		
				ertain bonus amount and royalty interest. Mr. Shaffer called Mr. Ramsey back and left a voicemail		
	requesting a call back.	isey stating that his attorney is duvising him to not sig	in unless he can get a Ce	er ann bonus annount anu royaity interest. Ivit, Sharrer Calleu Ivit, Kallisey back anu left a Volcemali		
		a phone and made a counter losse offer Mr. Democra	and he would think it a	vor		
9/20/2018	18 Mr. Shaffer called and spoke to Mr. Ramsey via phone and made a counter lease offer. Mr. Ramsey said he would think it over.					
0/20/2010	18 Mr. Ramsey called Mr. Shaffer and informed him that they will sign the proposed lease. Mr. Shaffer sent Mr. Ramsey an updated lease packet for execution.					
	Mr. Ramsey called Mr. Shaffer and informed h Mr. Shaffer sent Mr. Ramsey an updated lease	im that they will sign the proposed lease. Mr. Shaffer	sent Mr. Ramsey an up	dated lease packet for execution.		

10/9/2018 Mr. Shaffer called and left a voice message for Mr. Ramsey.

10/12/2018 Mr. Shaffer spoke with Mr. Ramsey by phone. Mr. Ramsey stated that he was still reviewing the final draft of the proposed lease but that he anticipated it would be executed within the coming week.

10/23/2018 Mr. Shaffer called and left a voice message for Mr. Ramsey.

10/30/2018 Mr. Shaffer called and left a voice message for Mr. Ramsey.

10/31/2018 Mr. Shaffer spoke with Mr. Ramsey by phone. Mr. Ramsey stated that he had spoken with his wife who was concerned that they had not had an attorney review the proposed lease first. The two spoke about a lot of the family's concerns.

11/1/2018 Mr. Shaffer spoke with Mr. Ramsey by phone. Mr. Shaffer explained to Mr. Ramsey that he was mailing him a new lease form.

11/5/2018 Mr. Shaffer spoke with Mr. Ramsey by phone. Mr. Ramsey wanted clarification about the new proposed form.

11/6/2018 Mr. Shaffer mailed Mr. Ramsey a new proposed lease form.

11/14/2018 Mr. Shaffer called and left a voice message for Mr. Ramsey.

11/29/2018 Mr. Shaffer spoke with Mr. Ramsey by phone. Mr. Ramsey stated that his attorney was reviewing the proposed lease and that Mr. Ramsey expected to hear back from him the following week.

11/30/2018 Mr. Shaffer spoke with Mr. Ramsey by phone. Mr. Ramsey informed Mr. Shaffer that he should follow up with his attorney, Larry Piergallini. Mr. Shaffer left a voicemail for Mr. Piergallini.

11/30/2018 Mr. Shaffer spoke with Mr. Ramsey by phone. Mr. Ramsey informed Mr. Shaffer that he had just officially become an attorney-in-fact for his mother, Helen Ramsey, and that the Power of Attorney has been recorded in the county records. Mr. Shaffer proceeded to update the proposed lease form to reflect this.

12/20/2018 Mr. Shaffer spoke with Mr. Ramsey by phone to discuss the lease.

12/26/2018 Mr. Shaffer left a voicemail with Attorney Larry Piergallini to discuss the proposed lease.

1/3/2019 Mr. Shaffer spoke with Mr. Ramsey by phone. Mr. Ramsey stated that he would try to get to his attorney's office to sign the next day.

1/4/2019 Mr. Shaffer emailed Larry Piergallini's office the proposed lease packet for execution. Mr. Shaffer also spoke with Mr. Piergallini's secretary by phone. She hadvised that she had a call out to Mr. Ramsey and that their office was requesting that he come in to execute the proposed lease.

Tract(s)	Parcel(s)	Uncommitted Working Interest Owner's Name	Address	
14, 26, 31, &	04-0000115.002, 04-0000205.000, 04-	Eclipse Resources - Ohio, LLC	2121 Old Gatesburg	
32	0000252.002, & 04-0000264.000		Road, Suite 110	
			State College, PA	
			16803	
Date			Comments	

6/22/2018 Ryan DoRemus, Landman II of Chesapeake Energy, emailed Eclipse Representative, Brianne Knierman, requesting Eclipse's stance on Parcels 04-0000252.002, 04-0000115.002, and 04-0000264.000.

6/28/2018 Mr. DoRemus emailed Mrs. Knierman and reaffirmed Chesapeake's intent to acquire apparent HBP acreage (Parcels 04-0000205.000 and 04-0000205.001) for the target formations (namely the Utica / Point Pleasant) under the vertical Miller Hines well (which at first glance appeared to be perpetuating leases on the aforementioned tax parcels) pending certain title verification requirments and further advised Eclipse that Chesapeake would initiate top leasing on remaining parcels (Parcels 04-0000115.002, 04-0000252.002, 04-0000264.000, 04-0000117.002, and 04-0000117.003) set to expire before anticipated spud date of initial well in the planned Smith Unit.

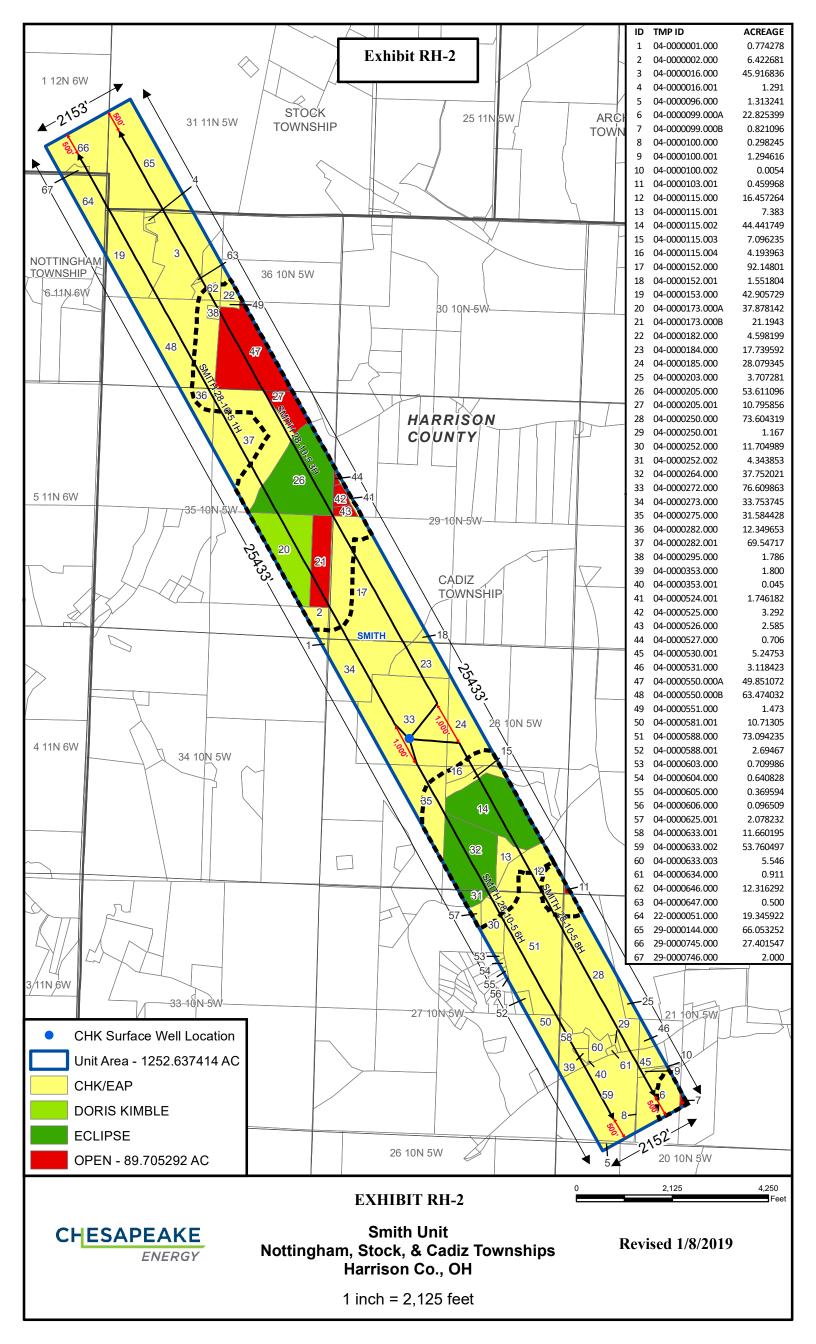
7/11/2018 Mrs. Knierman called Mr. DoRemus and verified Eclipse was onboard with Chesapeake's proposed plan for present Eclipse-owned leases on parcels that Eclipse has no interest in extending and the deep rights under the Miller-Hines well (tax parcels 04-0000205.000 & 04-0000205.001). Mrs. Knierman gave the following notes: verified intent to acquire apparent HBP acreage (Parcels 04-0000205.000 and 04-0000205.001) for the target formations pending certain title verification requirments, indicated Chesapeake was okay to initiate top leasing on remaining parcels (Parcels 04-0000115.002, 04-0000252.002, and 04-0000264.000) set to expire before anticipated Smith Unit development. With respect to Parcels 04-0000117.002 and 04-0000117.003, Eclipse elected not to pay the bonus or rentals and Eclipse indicated that it had no interest in those tax parcels and that it would not object to Chesapeake top leasing those tax parcels.

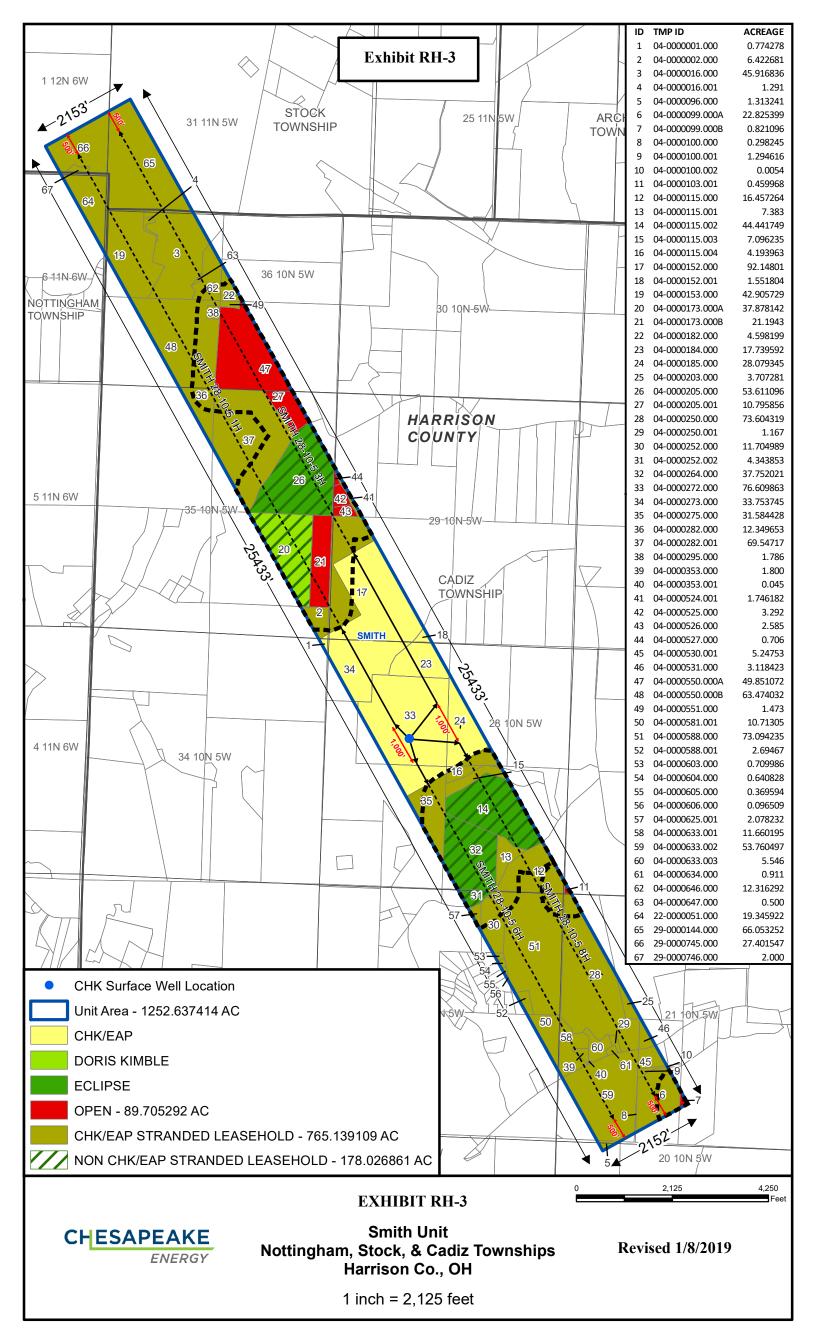
7/12/2018 Mrs. Knierman emailed Mr. DoRemus copies of the Miller/Hines leases for Parcels 04-0000205.000 and 04-0000205.001 for review.

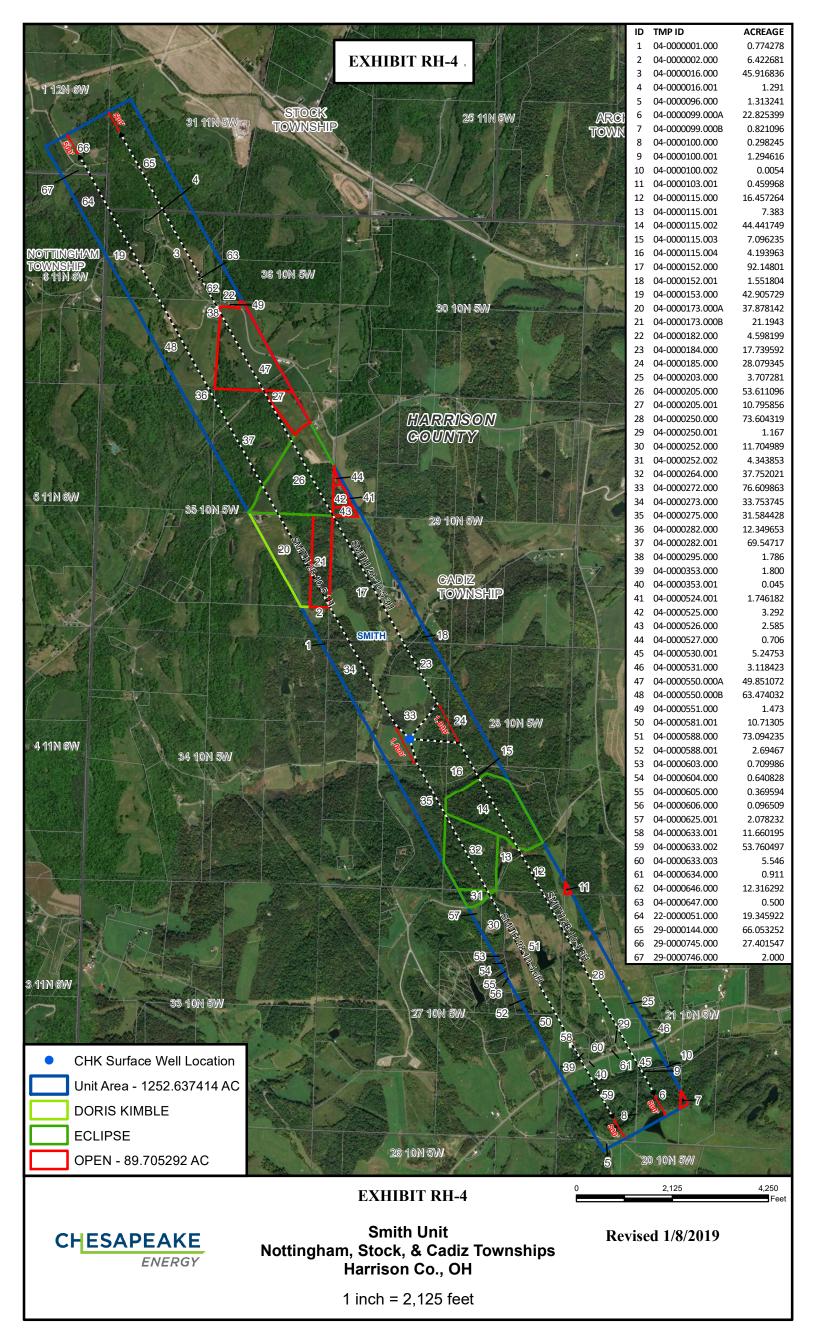
7/16/2018 Mr. DoRemus emailed Mrs. Knierman offer to acquire apparent HBP acreage (Parcels 04-0000205.000 and 04-0000205.001) for the target formations. Mrs. Knierman accepted initial terms clearing the way to move forward with top leasing efforts and acquisition of HBP acreage.

8/2/2018	Mr. DoRemus emailed Mrs. Knierman requesting production information from Miller/Hines & Mizer Farms #3 well to verify the status of any HBP leasehold.
8/13/2018	Mr. DoRemus follow up email to Mrs. Knierman requesting production information from Miller/Hines & Mizer Farms #3 well.
8/16/2018	Mrs. Knierman emailed Mr. DoRemus to follow up and report still waiting on info from the operator of the shallow wells Miller Hines and Mizer Farms 3. Mr. DoRemus emailed Mrs. Knierman requesting curative items for the apparently producing Miller Hines well.
8/23/2018	Darren Stewart, Landman II of Chesapeake Energy, emailed Mrs. Knierman proposed Letter Agreement and Assignment. Mrs. Knierman emailed various items connected to Parcels 04-0000205.000 and 04-0000205.001
	(Diversified JUA) and curative info regarding the Miller Hines well, which CHK deemed insufficiant to cure any apparent defect on Parcel 04-0000205.001.
9/6/2018	Mr. DoRemus informed Mrs. Knierman that an attorney purporting to represent Mr. Miller, Jr. had reached out to Chesapeake regarding revenue payments for Mr. Miller, Jr. regarding Parcel 04-0000205.000.
9/21/2018	Mr. DoRemus emailed Mrs. Knierman and others detailing curative items needed on Parcels 04-0000205.000, 04-0000205.001, and 29-0000745.000 and Chesapeake's planned strategy for developing this acreage.
9/24/2018	Mr. Stewart emailed Mrs. Knierman proposed edits to a Letter Agreement and indicated that, due to curative issues concerning Parcels 04-0000205.000 and 04-0000205.001, those tax parcels would likely be removed
	from the deal the two had been discussing concerning other acreage in order to allow for more time for curative steps to be taken by Eclipse before moving forward with CHK's acquisition of the deep rights unde the Eclipse leases covering Parcels 04-0000205.000 and 04-0000205.001.
10/2/2018	Mrs. Knierman agreed to proposed assignment form and letter agreement form (with a few small changes). CHK and Eclipse will use this base forms for CHK's acquisition of deep rights in Parcels 04-0000205.000 and 04- 0000205.001 once curative has been satisfied.
10/5/2018	Mr. William M. Kurtz, Senior Vice President at Diversified Gas and Oil, the owner of the shallow rights under the leases currently held by the Miller Hines and Mizer Farms 3 wells and the operator of those vertical wells, emailed to state they are working on curative items for Parcels 04-0000205.000, 04-0000205.001, and 29-0000745.000.
10/10/2018	Mr. DoRemus called and emailed both Mr. Kurtz and Mrs. Knierman in reference to Parcels 04-0000205.000 and 04-0000205.001 as well as 29-0000745.000 requesting curative items. Mr. DoRemus further relayed CHK's intention to top lease Parcel 04-0000205.001 if certain curative items could not be obtained by Diversified or Eclipse.
10/10/2018	Mr. DoRemus emailed Mrs. Knierman a proposed letter agreement and term assignment for various Eclipse leasehold, including the above-referenced tax parcels.
	Mr. DoRemus spoke with Mrs. Knierman to follow up on entering into an agreement. Mrs. Knierman requested a new proposed agreement be drafted incorporating agreed upon changes from a different, unrelated
	negotiation between Chesapeake and Eclipse be inserted into the new agreement concerning this acreage.
11/15/2018	Mr. DoRemus emailed Mrs. Knierman a revised letter agreement and term assignment for various Eclipse leasehold, including the above-referenced tax parcels.
11/26/2018	Mrs. Knierman emailed Mr. DoRemus stating that she would look at the documents he previously sent on 11/15/2018 and that she was just now returning to the office.
11/29/2018	Mrs. Knierman emailed Mr. DoRemus requesting the GIS unit shapefiles for the planned Chesapeake units which would develop the subject acreage.
12/5/2018	Jon Sivertson, Land Supervisor for Chesapeake Energy, emailed Tanner Quiring, Land Supervisor for EAP Ohio, LLC and Rick Elswick, a consultant for EAP Ohio, LLC, and Cc'd Mrs. Knierman seeking EAP Ohio, LLC's review of the proposed agreement.
12/5/2018	Mr. DoRemus spoke with Mrs. Knierman about Eclispe executing Working Interest Owner Approval Forms for Chesapeake's proposed Cromika Unit and Smith Unit applications.
12/6/2018	Tanner Quiring emailed Jon Sivertson back requesting additional information before reviewing. Mr. Sivertson replied by email with the requested information. Mrs. Knierman replied to Mr. Sivertson's email suggesting a potential closing date for January 30, 2019. Mr. DoRemus replied by email that this date was agreeable.
12/7/2018	Mr. DoRemus emailed Mrs. Knierman, Mr. Quiring, and Mr. Elswick providing a missing exhibit to the agreement which had previously not been sent due to error.
	Mr. DoRemus emailed Mrs. Knierman proposed Working Interest Owner Approval Forms seeking Eclipse's consent to Chesapeake's Cromika Unit and Smith Unit applications, both currently pending January 23, 2019 hearings.
12/17/2018	Mr. DoRemus emailed Mrs. Knierman an updated letter agreement and term assignment form with some adjustments requested by EAP Ohio, LLC.
	Mrs. Knierman emailed Mr. DoRemus providing Eclipse's redlines to the proposed agreement and provided some requested documentation concerning payment of revenue under leases past their primary term.
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Tract(s)	Parcel(s)	Uncommitted Working Interest Owner's Name	Address	
20	04-0000173.000A	Doris Kimble	3596 State Route 39	
			NW	
			Dover, OH 44622	
Date			Comments	
12/21/2017				rmation on several leases covering multiple tax parcels in Harrison County, Ohio (including the
				hesapeake's planned development. Mr. DoRemus inquired if Mr. Berkley generally knew if RHDK
	or Kimble would want to trade out or participa	ate in Chesapeake's planned development in the area i	n many upcoming Ches	sapeake units with whatever interest RHDK would possess.
1/10/2018	Ryan DoRemus emailed Matt Berkeley reques	ting follow up on above email request. Mr Berkeley re	plied wanting to know v	what Chesapeake's time frame for development was, and Mr. DoRemus replied sometime in the
	year 2019 or 2020.			
3/27/2018	Mr. Berkeley responded to email request by d	etailing the pooling limits of various leases and detailin	ng the AMI connections	between RHDK/ARU.
6/13/2018	Rvan DoRemus, Landman II, and Dan Kucab, Si	r. Staff Landman, both of Chesapeake Energy .met with	n Doris J. Kimble's repre	esentative Matt Berkeley at his office in Ohio. Mr. DoRemus and Kucab presented a high level
0, 20, 2020	•			d want to participate with their interest or be open to trade or acquisition for acreage.
		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
7/3/2018	Mr. DoRemus emailed Mr. Berkeley requestin	g Kimble seek pooling modifications for the lease pres	ently covering Parcel 04	4-0000173.000A and other leases so all RHDK and Kimble owned leasehold could be voluntarily
., .,	included within development.	6 ······· · · · · · · · · · · · · · · ·		,
7/24/2018	Mr. Berkeley replied to email from Mr. DoRen	nus relaying pooling limits from leasehold not owned	by Chesapeake and plee	dging to work on obtaining modifications from RHDK and Kimble lessors not affiliated with
	Chesapeake.			
September	Mr. DoRemus called Mr. Berkeley to follow up	on various unrelated pooling modifications concernin	g other leasehold own	ed by RHDK not within this particular unit. At one point, the conversation turned to RHDK &
2018			with their Working Inte	rest in planned units. Mr. DoRemus does not recall the exact date of this conversation but
	remembers that it occurred within September	<i>.</i>		
9/24/2018	Mr. DoRemus emailed Mr. Berkeley offering to	o purchace the deep rights under parcel 04-0000173.0	00A owned by Doris Kir	nble.
9/26/2018	Mr. Berkeley emailed stating Kimble may be in	nterested but only for an offer Kimble would consider	to be very good.	
9/27/2018	Mr. DoRemus emailed Mr. Berkeley offering t	wo different options to purchace the deep rights unde	r parcel 04-0000173.00	0A owned by Doris Kimble.
Late	Mr. DoRemus called Mr. Berkeley to follow up	o on emailed offer, left Voice Mail. Mr. DoRemus does	not recall the exact dat	e of this conversation but remembers that it occurred in late September.
September				
2018				
10/22/2018				ered on a Joint Operating Agreement the two parties are negotiating and working interest
		ther units. Mr Sivertston committed to sending GIS un	-	
	-	apeake Energy, emailed Matt Berkeley GIS unit shape f		
10/23/2018				other unrelated units. The proposals were sent to both for RHDK Oil & Gas LLC (which owns
	working interest in other unrelated units) and	Doris Kimble (individually as to her interest in the Smi	th Unit) respectively.	







WORKING INTEREST OWNER

APPROVAL OF

UNIT PLAN FOR THE

SMITH UNIT

Cadiz, Nottingham, & Stock Townships

Harrison County, Ohio

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, a Unit Plan has been prepared for the testing, development, and operation of certain Tracts identified therein, which Unit Plan consists of an agreement entitled, "Unit Agreement, The Smith Unit, Cadiz, Nottingham, and Stock Townships, Harrison County, Ohio," dated November 13, 2018 (the "Unit Agreement"); and an agreement entitled, "A.A.P.L. Form 610-1989 Model Form Operating Agreement," also regarding the Smith Unit and of like date (the "Unit Operating Agreement"); and,

WHEREAS, the undersigned is the owner of a Working Interest in and to one or more of the Tracts identified in said Unit Plan, namely, the Tracts identified below (hereinafter, the "Owner").

NOW, THEREFORE, the Owner hereby approves* the Unit Plan and acknowledges receipt of full and true copies of both the Unit Agreement and the Unit Operating Agreement.

IN WITNESS WHEREOF, the undersigned has executed this instrument on the date set forth opposite the signature of its representative.

WORKING INTEREST OWNER

TRACT NO. (see attached Exhibit 6.1)

TRACT ACREAGE <u>246.623409</u>

RELATED WORKING INTEREST PERCENTAGE <u>19.688332%</u>¹

CHESAPEAKE EXPLORATION, L.L.C. CHK UTICA, L.L.C.

Date 1/8/2019

By: Jebell

Robert Highsaw, Staff Landman

Exhibit 6

* Chesapeake Exploration, L.L.C., as operator of the proposed unit, is authorized to file this Application on behalf of TOTAL E&P USA, Inc., with whom Chesapeake has a Development Agreement and a global Joint Operating Agreement, and CHK Utica, L.L.C., as a wholly controlled Chesapeake entity which is also a party to the Development Agreement.

Revised 1/8/2018

¹ As to Tracts that are fully leased to Chesapeake Exploration, L.L.C., and its working interest partners, being those certain Tracts that are set forth on Exhibit A-4 to the Unit Operating Agreement, the "Tract Acreage" is 240.131057 acres and the "Related Working Interest Percentage" is 19.170037%.

Exhibit 6.1

(Exhibit to Chesapeake Exploration, L.L.C.'s Working Interest Owner Approval)

Attached to and made a part of that certain In re the Matter of the Application of Chesapeake Exploration, L.L.C. for Unit Operation - Smith Unit dated November 13, 2018

TRACT	MINERAL OWNERS	SURFACE	TAX MAP PARCEL ID
NUMBER		ACRES IN	NUMBERS
		UNIT	
1	JOHN AND ELSIE CROMIKA TRUST DATED 11-6-2015	0.199377	04-0000001.000
2	JOHN AND ELSIE CROMIKA TRUST DATED 11-6-2015	1.653840	04-000002.000
3	WILLIAM B. BROWNFIELD, JR. AND GABRIELLA M. BROWNFIELD (H/W, JT)	11.823585	04-0000016.000
5	JON P. BARNER AND MARY J. BARNER (H/W, JT)	0.338160	04-0000096.000
6	ANDERSON FAMILY TREE FARM, LTD.	5.877540	04-0000099.000A
8	MARY ANN PORTER	0.076798	04-0000100.000
9	MARY ANN PORTER	0.333364	04-0000100.001
10	MARY ANN PORTER	0.001391	04-0000100.002
11	L. D. JENKINS A/K/A BUCK JENKINS (5/24)	0.024675	04-0000103.001
11	REMORA, LLC (5/24)	0.024675	04-0000103.001
11	WILLOW POINT CORPORATION (5/24)	0.024675	04-0000103.001
12	JOSEPH E. PORTER AND LINDA K. PORTER (H/W, JT)	4.237745	04-0000115.000
13	FRANK J. MOLL AND LORINDA L. MOLL (H/W, JT)	1.901123	04-0000115.001
15	FRANK J. MOLL AND LORINDA L. MOLL (H/W, JT)	1.827281	04-0000115.003
16	FRANK J. MOLL AND LORINDA L. MOLL (H/W, JT)	1.079945	04-0000115.004
17	WHITNEY ELYSE KNIGHT (1/10)	2.372811	04-0000152.000
17	KATHERINE MARGARET KNIGHT-KIMBLE (1/10)	2.372811	04-0000152.000
17	MORGAN ANDREW KNIGHT (1/10)	2.372811	04-0000152.000
17	ALLISON ELIZABETH KNIGHT (1/10)	2.372811	04-0000152.000
17	JEFFREY M. KNIGHT AND DEBRA A. KNIGHT (H/W, JT) (6/10)	14.236868	04-0000152.000
18	GEORGE E. MILLS	0.399590	04-0000152.001
10	ALICIA J. DOWDLE, TRUSTEE OF THE DOWDLE FAMILY	11.048225	04-0000152.001
17	TRUST, DATED MARCH 20, 2017	11.040223	04 0000155.000
22	WILDWOOD ESTATES, LLC	1.184036	04-0000182.000
25	ROY HILDRETH, JR.	0.954625	04-0000203.000
28	JOSEPH E. PORTER AND LINDA K. PORTER (H/W, JT)	18.953112	04-000250.000
29	JOSEPH E. PORTER AND LINDA K. PORTER (H/W, JT)	0.300503	04-0000250.001
30	JOHN A. COOK AND SUSAN M. COOKE (H/W, JT)	3.014035	04-0000252.000
33	RICHARD L. SMITH AND BONNIE L. SMITH	19.727040	04-0000272.000
34	RICHARD L. SMITH	8.691589	04-0000273.000
35	RICHARD L. SMITH	8.132990	04-0000275.000
36	RHDK INVESTMENTS, LLC	3.180036	04-0000282.000
37	RHDK INVESTMENTS, LLC	17.908396	04-0000282.001
38	JAKE D. EMERY	0.459895	04-0000295.000
39	MARY ANN PORTER	0.463500	04-0000353.000
40	MARY ANN PORTER	0.011588	04-0000353.001
41	LOIS POULSON	0.449642	04-0000524.001
46	JOSEPH E. PORTER AND LINDA K. PORTER (H/W, JT)	0.802994	04-0000531.000
47	CLIFFORD W. DUNLAP (1/8)	1.604581	04-0000550.000A
47	GLORIA W. RUDDICK (1/8)	1.604581	04-0000550.000A
47	FLORENCE A. MCKIBBEN (1/8)	1.604581	04-0000550.000A
47	CAROL L. HEAVILIN (1/8)	1.604581	04-0000550.000A
48	CLIFFORD W. DUNLAP (1/4)	4.086141	04-0000550.000B
48	GLORIA W. RUDDICK (1/4)	4.086141	04-0000550.000B
48	FLORENCE A. MCKIBBEN (1/4)	4.086141	04-0000550.000B
48	CAROL L. HEAVILIN (1/4)	4.086141	04-0000550.000B

TRACT	MINERAL OWNERS	SURFACE	TAX MAP PARCEL ID
NUMBER		ACRES IN UNIT	NUMBERS
49	CLIFFORD W. DUNLAP AND JACQUELINE S. DUNLAP	0.379298	04-0000551.000
.,	(H/W, JT)	0.077270	01 000000 110000
50	HERITAGE RESOURCES - UTICA, LLC (F/K/A AMERICAN	1.379305	04-0000581.001
	ENERGY - UTICA MINERALS, LLC) (1/2)		
50	CELIA M. DICKERSON AND RAYMOND L. DICKERSON	1.379305	04-0000581.001
	(H/W, JT) (1/2)		
51	JOSEPH E. PORTER AND LINDA K. PORTER (H/W, JT)	18.821766	04-0000588.000
52	CYNTHIA W. KARTO	0.693878	04-0000588.001
53	BRIAN GENTRY	0.182821	04-0000603.000
54	JOHN A. COOK AND SUSAN M. COOKE (H/W, JT)	0.165013	04-0000604.000
55	JOHN A. COOK AND SUSAN M. COOKE (H/W, JT)	0.095170	04-0000605.000
56	JOHN A. COOK AND SUSAN M. COOKE (H/W, JT)	0.024851	04-0000606.000
57	BRIAN M. CARR (1/2)	0.267572	04-0000625.001
57	TODD A. RININGER (1/2)	0.267572	04-0000625.001
58	MARY ANN PORTER	3.002500	04-0000633.001
59	BOUNTY MINERALS, LLC	13.843328	04-0000633.002
60	JOSEPH E. PORTER AND LINDA K. PORTER (H/W, JT)	1.428095	04-0000633.003
61	JAMES CLINTON FERNS AND JOYCE ANN FERNS,	0.234583	04-0000634.000
	TRUSTEES, THE FERNS FAMILY REOVCABLE LIVING		
	TRUST DATED APRIL 1, 2003		
62	HAROLD E. HOWES	3.171445	04-0000646.000
63	HAROLD E. HOWES	0.128750	04-0000647.000
64	ANITA L. COULTRAP, TRUSTEE OF THE ANITA L.	4.981575	22-0000051.000
	COULTRAP REVOCABLE DECLARATION OF TRUST		
	EXECUTED FEBRUARY 4, 2013		
65	MIZER FARMS, INC.	17.008712	29-0000144.000
66	LEONHARD MAY AND HANNELORE MAY (H/W, JT)	7.055898	29-0000745.000
67	MIZER FARMS, INC.	0.515000	29-0000746.000
	TOTAL:	246.623409	

Revised: 1/8/2019

WORKING INTEREST OWNER

APPROVAL OF

UNIT PLAN FOR THE

SMITH UNIT

Cadiz, Nottingham, & Stock Townships

Harrison County, Ohio

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, a Unit Plan has been prepared for the testing, development, and operation of certain Tracts identified therein, which Unit Plan consists of an agreement entitled, "Unit Agreement, The Smith Unit, Cadiz, Nottingham, and Stock Townships, Harrison County, Ohio," dated November 13, 2018 (the "Unit Agreement"); and an agreement entitled, "A.A.P.L. Form 610-1989 Model Form Operating Agreement," also regarding the Smith Unit and of like date (the "Unit Operating Agreement"); and,

WHEREAS, the undersigned is the owner of a Working Interest in and to one or more of the Tracts identified in said Unit Plan, namely, the Tracts identified below (hereinafter, the "Owner").

NOW, THEREFORE, the Owner hereby approves the Unit Plan and acknowledges receipt of full and true copies of both the Unit Agreement and the Unit Operating Agreement.

IN WITNESS WHEREOF, the undersigned has executed this instrument on the date set forth opposite the signature of its representative.

WORKING INTEREST OWNER

TRACT NO. (see attached Exhibit 6-1.1)

TRACT ACREAGE 774.818827

RELATED WORKING INTEREST PERCENTAGE 61.854996%¹

EAP OHIO, LLC

18/2019 Date

Matt Jones By:

- Land Supervisor

Exhibit 6

¹ As to Tracts that are fully leased to EAP Ohio, LLC, being those certain Tracts that are set forth on Exhibit A-4 to the Unit Operating Agreement, the "Tract Acreage" is 744.774204 acres and the "Related Working Interest Percentage" is 59.456487%.

Exhibit 6-1.1 (Exhibit to EAP Ohio, LLC's Working Interest Owner Approval)

Attached to and made a part of that certain In re the Matter of the Application of Chesapeake Exploration, L.L.C. for Unit Operation - Smith Unit dated November 13, 2018

TRACT	MINERAL OWNERS	SURFACE	TAX MAP PARCEL ID
NUMBER		ACRES IN	NUMBERS
		UNIT	
1	JOHN AND ELSIE CROMIKA TRUST DATED 11-6-2015	0.574901	04-0000001.000
2	JOHN AND ELSIE CROMIKA TRUST DATED 11-6-2015	4.768841	04-000002.000
3	WILLIAM B. BROWNFIELD, JR. AND GABRIELLA M. BROWNFIELD (H/W, JT)	34.093251	04-0000016.000
4	WILLIAM B. BROWNFIELD, JR. AND GABRIELLA M. BROWNFIELD (H/W, JT)	1.291000	04-0000016.001
5	JON P. BARNER AND MARY J. BARNER (H/W, JT)	0.975081	04-0000096.000
6	ANDERSON FAMILY TREE FARM, LTD.	16.947859	04-0000099.000A
7	L. D. JENKINS A/K/A BUCK JENKINS (21/96)	0.179615	04-0000099.000B
7	REMORA, LLC (21/96)	0.179615	04-0000099.000B
7	WILLOW POINT CORPORATION (21/96)	0.179615	04-0000099.000B
8	MARY ANN PORTER	0.221447	04-0000100.000
9	MARY ANN PORTER	0.961252	04-0000100.001
10	MARY ANN PORTER	0.004010	04-0000100.002
11	L. D. JENKINS A/K/A BUCK JENKINS (5/24)	0.071152	04-0000103.001
11	REMORA, LLC (5/24)	0.071152	04-0000103.001
11	WILLOW POINT CORPORATION (5/24)	0.071152	04-0000103.001
12	JOSEPH E. PORTER AND LINDA K. PORTER (H/W, JT)	12.219519	04-0000115.000
13	FRANK J. MOLL AND LORINDA L. MOLL (H/W, JT)	5.481878	04-0000115.001
15	FRANK J. MOLL AND LORINDA L. MOLL (H/W, JT)	5.268954	04-0000115.003
16	FRANK J. MOLL AND LORINDA L. MOLL (H/W, JT)	3.114018	04-0000115.004
17	WHITNEY ELYSE KNIGHT (1/10)	6.841990	04-0000152.000
17	KATHERINE MARGARET KNIGHT-KIMBLE (1/10)	6.841990	04-0000152.000
17	MORGAN ANDREW KNIGHT (1/10)	6.841990	04-0000152.000
17	ALLISON ELIZABETH KNIGHT (1/10)	6.841990	04-0000152.000
17	JEFFREY M. KNIGHT AND DEBRA A. KNIGHT (H/W, JT) (6/10)	41.051938	04-0000152.000
18	GEORGE E. MILLS	1.152214	04-0000152.001
19	ALICIA J. DOWDLE, TRUSTEE OF THE DOWDLE FAMILY TRUST, DATED MARCH 20, 2017	31.857504	04-0000153.000
22	WILDWOOD ESTATES, LLC	3.414163	04-0000182.000
23	HARRISON LEASING COMPANY	17.739592	04-0000184.000
24	HARRISON LEASING COMPANY	28.079345	04-0000185.000
25	ROY HILDRETH, JR.	2.752656	04-0000203.000
28	JOSEPH E. PORTER AND LINDA K. PORTER (H/W, JT)	54.651207	04-0000250.000
29	JOSEPH E. PORTER AND LINDA K. PORTER (H/W, JT)	0.866498	04-0000250.001
30	JOHN A. COOK AND SUSAN M. COOKE (H/W, JT)	8.690954	04-0000252.000
32	THE ESTATE OF ROBERT FLEAGANE	0.000000	04-0000264.000
33	RICHARD L. SMITH AND BONNIE L. SMITH	56.882823	04-0000272.000
34	RICHARD L. SMITH	25.062156	04-0000273.000
35	RICHARD L. SMITH	23.451438	04-0000275.000
36	RHDK INVESTMENTS, LLC	9.169617	04-0000282.000
37	RHDK INVESTMENTS, LLC	51.638774	04-0000282.001
38	JAKE D. EMERY	1.326105	04-0000295.000
39	MARY ANN PORTER	1.336500	04-0000353.000
40	MARY ANN PORTER	0.033413	04-0000353.001
41	LOIS POULSON	1.296540	04-0000524.001
42	JAMES F. HINES (1/4)	0.823000	04-0000525.000

TRACT	MINERAL OWNERS	SURFACE	TAX MAP PARCEL ID
NUMBER	MIINERAE OWNERS	ACRES IN	NUMBERS
NUMBER		UNIT	NOWIDERS
43	JAMES F. HINES (1/4)	0.646250	04-0000526.000
43			
	JAMES F. HINES (1/4)	0.176500	04-0000527.000
45	JOSEPH E. PORTER AND LINDA K. PORTER (H/W, JT)	5.247530	04-0000530.001
46	JOSEPH E. PORTER AND LINDA K. PORTER (H/W, JT)	2.315429	04-0000531.000
47	CLIFFORD W. DUNLAP (1/8)	4.626803	04-0000550.000A
47	GLORIA W. RUDDICK (1/8)	4.626803	04-0000550.000A
47	FLORENCE A. MCKIBBEN (1/8)	4.626803	04-0000550.000A
47	CAROL L. HEAVILIN (1/8)	4.626803	04-0000550.000A
47	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS,	1.661703	04-0000550.000A
47	DEVISEES, OR ASSIGNS OF THOMAS NELSON FINICAL,	1.001703	04-0000330.000A
	SR. INCLUDING:		
	THOMAS NELSON FINICAL, JR. (1/3)		
47	TODD S. RAMSEY	1.246276	04-0000550.000A
47	KARLA RAMSEY HOFF	1.246276	04-0000550.000A
47	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS,	1.246277	04-0000550.000A
	DEVISEES, OR ASSIGNS OF CLARA ROGERS, INCLUDING		
	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS,		
	DEVISEES, OR ASSIGNS OF ELLEN O. WILLIS,		
	INCLUDING:		
	LINDA M. PATRICK (1/4)		
47	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS,	1.246277	04-0000550.000A
	DEVISEES, OR ASSIGNS OF CLARA ROGERS, INCLUDING		
	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS,		
	DEVISEES, OR ASSIGNS OF ELLEN O. WILLIS,		
	INCLUDING:		
	RUTH CARTER (1/4)		
47		1 246277	04.0000550.0004
47	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS,	1.246277	04-0000550.000A
	DEVISEES, OR ASSIGNS OF CLARA ROGERS, INCLUDING		
	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS,		
	DEVISEES, OR ASSIGNS OF ELLEN O. WILLIS,		
	INCLUDING:		
	NANCY K. ANDERSON (1/4)		
47	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS,	1.246277	04-0000550.000A
	DEVISEES, OR ASSIGNS OF CLARA ROGERS, INCLUDING		
	THE KNOWN AND UNKNOWN HEIRS, SUCCESSORS,		
	DEVISEES, OR ASSIGNS OF ELLEN O. WILLIS,		
	INCLUDING:		
	CAROL S. WHITE (1/4)		
48	CLIFFORD W. DUNLAP (1/4)	11.782367	04-0000550.000B
48	GLORIA W. RUDDICK (1/4)	11.782367	04-0000550.000B
48	FLORENCE A. MCKIBBEN (1/4)	11.782367	04-0000550.000B
48	CAROL L. HEAVILIN (1/4)	11.782367	04-0000550.000B
49	CLIFFORD W. DUNLAP AND JACQUELINE S. DUNLAP	1.093703	04-0000551.000
77	(H/W, JT)	1.075705	01 0000001.000
50		2 077020	04.0000501.001
50	HERITAGE RESOURCES - UTICA, LLC (F/K/A AMERICAN	3.977220	04-0000581.001
	ENERGY - UTICA MINERALS, LLC) (1/2)		
50	CELIA M. DICKERSON AND RAYMOND L. DICKERSON	3.977220	04-0000581.001
	(H/W, JT) (1/2)		
	JOSEPH E. PORTER AND LINDA K. PORTER (H/W, JT)	54.272469	04-0000588.000
51			
51			
	CYNTHIA W. KARTO	2.000792	04-0000588.001
52	CYNTHIA W. KARTO BRIAN GENTRY	2.000792	04-0000588.001
52 53	BRIAN GENTRY	0.527165	04-0000603.000
52 53 54	BRIAN GENTRY JOHN A. COOK AND SUSAN M. COOKE (H/W, JT)	0.527165 0.475815	04-0000603.000 04-0000604.000
52 53 54 55	BRIAN GENTRY JOHN A. COOK AND SUSAN M. COOKE (H/W, JT) JOHN A. COOK AND SUSAN M. COOKE (H/W, JT)	0.527165 0.475815 0.274424	04-0000603.000 04-0000604.000 04-0000605.000
52 53 54 55 56	BRIAN GENTRY JOHN A. COOK AND SUSAN M. COOKE (H/W, JT) JOHN A. COOK AND SUSAN M. COOKE (H/W, JT) JOHN A. COOK AND SUSAN M. COOKE (H/W, JT)	0.527165 0.475815 0.274424 0.071658	04-0000603.000 04-0000604.000 04-0000605.000 04-0000606.000
52 53 54 55 56 57	BRIAN GENTRY JOHN A. COOK AND SUSAN M. COOKE (H/W, JT) JOHN A. COOK AND SUSAN M. COOKE (H/W, JT) JOHN A. COOK AND SUSAN M. COOKE (H/W, JT) BRIAN M. CARR (1/2)	0.527165 0.475815 0.274424 0.071658 0.771544	04-0000603.000 04-0000604.000 04-0000605.000 04-0000606.000 04-0000625.001
52 53 54 55 56	BRIAN GENTRY JOHN A. COOK AND SUSAN M. COOKE (H/W, JT) JOHN A. COOK AND SUSAN M. COOKE (H/W, JT) JOHN A. COOK AND SUSAN M. COOKE (H/W, JT)	0.527165 0.475815 0.274424 0.071658	04-0000603.000 04-0000604.000 04-0000605.000 04-0000606.000
52 53 54 55 56 57	BRIAN GENTRY JOHN A. COOK AND SUSAN M. COOKE (H/W, JT) JOHN A. COOK AND SUSAN M. COOKE (H/W, JT) JOHN A. COOK AND SUSAN M. COOKE (H/W, JT) BRIAN M. CARR (1/2)	0.527165 0.475815 0.274424 0.071658 0.771544	04-0000603.000 04-0000604.000 04-0000605.000 04-0000606.000 04-0000625.001

TRACT	MINERAL OWNERS	SURFACE	TAX MAP PARCEL ID
NUMBER		ACRES IN	NUMBERS
		UNIT	
60	JOSEPH E. PORTER AND LINDA K. PORTER (H/W, JT)	4.117905	04-0000633.003
61	JAMES CLINTON FERNS AND JOYCE ANN FERNS,	0.676418	04-0000634.000
	TRUSTEES, THE FERNS FAMILY REOVCABLE LIVING		
	TRUST DATED APRIL 1, 2003		
62	HAROLD E. HOWES	9.144847	04-0000646.000
63	HAROLD E. HOWES	0.371250	04-0000647.000
64	ANITA L. COULTRAP, TRUSTEE OF THE ANITA L.	14.364347	22-0000051.000
	COULTRAP REVOCABLE DECLARATION OF TRUST		
	EXECUTED FEBRUARY 4, 2013		
65	MIZER FARMS, INC.	49.044540	29-0000144.000
66	LEONHARD MAY AND HANNELORE MAY (H/W, JT)	20.345649	29-0000745.000
67	MIZER FARMS, INC.	1.485000	29-0000746.000
	TOTAL:	774.818827	

STATE OF OHIO DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL AND GAS RESOURCES MANAGEMENT

In re the Matter of the Application of	:
Chesapeake Exploration, L.L.C., for	:
Unit Operation	:
	:
Smith Unit	:

AFFIDAVIT OF OWNERSHIP

I, Robert Highsaw, being first duly cautioned and sworn, do hereby depose and state as follows:

- 1. Affiant is competent to testify on the matters contained in this affidavit.
- 2. Affiant is employed by Chesapeake Operating, L.L.C., which is a subsidiary of Chesapeake Energy Corporation and an affiliate of Chesapeake Exploration, L.L.C. ("Chesapeake"), as a Staff Landman. Affiant's day-to day responsibilities include assisting Chesapeake with its oil and gas development program in eastern Ohio.
- 3. Affiant has the authority to sign this affidavit on behalf of Chesapeake.
- 4. Pursuant to Ohio Revised Code § 1509.28, Chesapeake has filed an application with the Chief of the Division of Oil and Gas Resources Management requesting an order authorizing it to operate the Unitized Formation and applicable land area, identified as the Smith Unit, according to the Unit Plan attached thereto (as those terms are used and defined therein). The Smith Unit is located in Harrison County, Ohio, and consists of sixty-seven (67) separate tracts of land covering approximately 1,252.637414 acres.
- 5. As of the application date, Chesapeake and the other committed working interest owners in the Smith Unit are the owners, as that term is defined in Ohio Revised Code § 1509.01(K), of at least 65% of the land overlying the Unitized Formation, as outlined in Exhibit A attached hereto.¹

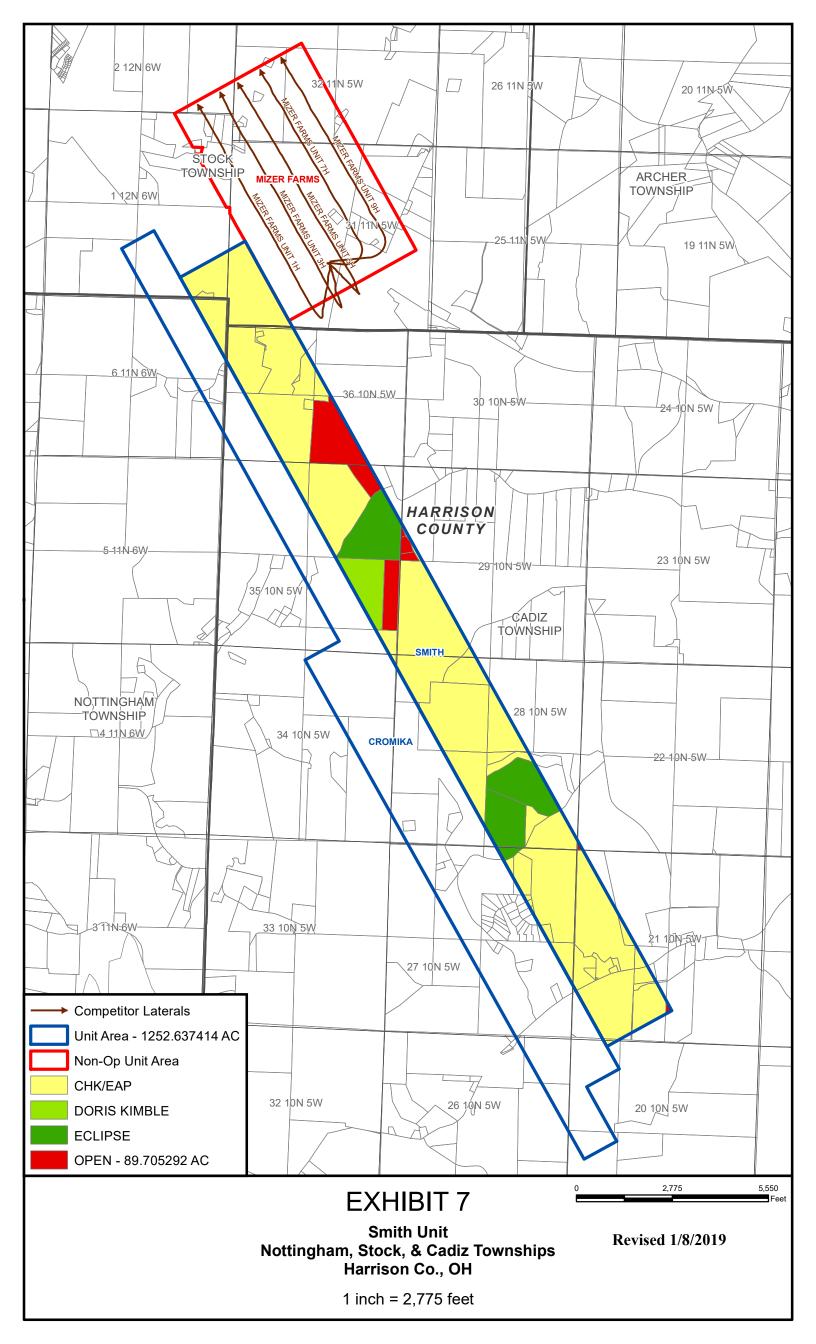
FURTHER AFFIANT SAYETH NAUGHT.

belt Alphs

Robert Highsaw – Staff Landman

STATE OF OKLAHOMA)		
) ss:		
COUNTY OF OKLAHOMA)		
by Robert Highsaw.	efore me this	St day of Jahlar	, 2019,
# 11007273 EXP. 08/10/19		Morgan Belle Notary Public	hav
OF OKLAND			Exhibit 6.2

¹ Chesapeake Exploration, L.L.C., as operator of the proposed unit, is authorized to file this Application on behalf of TOTAL E&P USA, Inc., with whom Chesapeake has a Development Agreement and a global Joint Operating Agreement, and CHK Utica, L.L.C., as a wholly controlled Chesapeake entity, which is also a party to the Development Agreement.



15 12N 6W 14 12N 6W 13 12N 6W 7	9 13N 6W 8 13N 6W 7 13N 6W 12 12N 6W 10 12N 6W 9 12N 6W 8 12N 6W 8 12N 6W	2 13N 6 2 13N 6 2 13N 6 NORT TOWNS 1 13N 6 6 12N 6W 4 12N 6W 3 12N 6W TOCK WNSHIP 2 12N 6W	5W 32 1 TH SHIP W 31 12 N 36 1 V 36 1	2N 5W 1N 5W SW SW SW SW SW SW SW SW SW S	and the second s	ARVEY BOUTH W CARENT POR CARENT CAREN	21 12N 5 20 12N 5V 19 12N 5V 24 11N 5 3-11N 5W 1 11N 5W	V 14 12N 5 RUN TOWN V 13 12N 5	5W 9 12N 5 5W 8 12N 5 7LEY NSHIP W 7 12N 5V V 12 11N 5V /	W N 6 11N 5V /
13 13N 6W 13 13N 6W 18 12N 6W 17-12N-6W 16 12N 6W 15 12N 6W 14 12N 6W 13 12N 6W	7 13N 6W 12 12N 6W 	NORT TOWNS 1 13N 6 6 12N 6V 5-12N-6W 4 12N 6W 3 12N 6W TOCK WNSHIP	32 1 TH SHIP W 31 12 N 36 1 V 36 1	2N 5W 2N 5W 2N 5W 3N 5W 3N 5W 5W 5W 5W 5W 5W 5W 27	26 1 26 1 26 1 26 1 26 1 26 1 27 12 1 28 111 28 111 2	I2N 5W	19 12N 5W 24 11N 5 3-1-1-N-5-W-	13 12N 5 TOWN 13 12N 5 5W 18 11N 5V	V 12 11N 5W	V 6 11N 5V
18 12N 6W 17-12N-6W 16 12N 6W 15 12N 6W 14 12N 6W 13 12N 6W	12 12N 6W -11-12N-6W 10 12N 6W 9 12N 6W S TOV	TOWNS 1 13N 6 6 12N 6V 5-12N-6W 4 12N 6W 3 12N 6W TOCK WNSHIP	SHIP W 31 12 N 36 1 V 36 1 V 36 1 V 33 11 V 33 11 V 33 11 V 33 11 V	11N 5W 11N 5W 6 9 11N 5W 80 11N 5W 11N 5W	25 12N 5 25 12N 5 30 11N 5W 29-14N-5 28 11N 28 11N 28 11N 28 11N 28 12N 5 28 12N 5 28 12N 5 29-14N-5 28 12N 5 28	W 22 SW	24 11N 3	TOW 13 12N 5 5W 18 11N 5V 17-14N-5W 16 11N 5W	VSHIP V 7 12N 5V V 12 11N 5V /	V 6 11N 5V
17~12N+6W 16 12N 6W 15 12N 6W 14 12N 6W 13 12N 6W	-11-12N-6W	5-12N-6W 4 12N 6W 3 12N 6W	36 1	50 Wiles 50 Wiles 50 Viles 50 Vil	25 12 15 30 11N 5W 29-14N-54 28 11N 28 11N 28 11N 28 12N 28 12N 29-14N-54 28 12N 29-14N-54 28 12N 29-14N-54 20-14N-54 20-1400000000000000000000000000000000000	W California (Constraint) California (Constraint) W 22 5W 22 5W 22 5W 22 5W 22	2 11N 5W	18 11N 5V	10 11N 5W	/5=14+N=54
16 12N 6W 15 12N 6W 14 12N 6W 13 12N 6W	10 12N 6W 9 12N 6W S TOV	4 12N 6W 3 12N 6W TOCK WNSHIP		111 EM 111 EM	28 111V	5W 22	2 11N 5W	16 11N 5W	10 11N 5W	
15 12N 6W 14 12N 6W 13 12N 6W 7	9 12N 6W S TOV	3 12N 6W TOCK WNSHIP	V 33 /IN	500 500 500 500 500 500 500 500 500 500		22 Solution				4 11N 5V
14 12N 6W	S TOV	TOCK WNSHIP	33 MN		DOD: SOU	SON JTH 2'	1 11N 5W	15 11N 5W	9 11N 5W/	
13 12N 6W 7	8 12N 6W	2 12N 6W						ARCHE TOWNSH	ER	3 11N 5V
			- / 1	5W es	26 11N 5W	20 -	11N 5W	14 11N 5W	8 11N 5W	2 11N 5W
18 11N 6W 12	7 12N 6W	1 12N 6W	31 11N 5	5W 2	25 11N 5W HARRI COUI	ISON	11N 5W	13 11N 5W	7 11N 5W	1 11N 5W
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STATE OF OHIO DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL AND GAS RESOURCES MANAGEMENT

In re the Matter of the Application of	:
Chesapeake Exploration, L.L.C., for	:
Unit Operation	:
0 '1 II '	~
Smith Unit	:

Application Date: November 13, 2018

AFFIDAVIT OF DEVELOPMENT AGREEMENT

The undersigned, being first duly sworn according to the law, makes this affidavit and deposes and says that:

- 1. Affiant is competent to testify on the matters contained in this affidavit.
- 2. Affiant, Robert Highsaw, is employed by Chesapeake Operating, L.L.C., which is a subsidiary of Chesapeake Energy Corporation and an affiliate of Chesapeake Exploration, L.L.C., as a Staff Landman. Affiant's job responsibilities include, but are not limited to, working directly with TOTAL E&P USA, Inc.
- 3. Affiant has the authority to sign this Affidavit on behalf of Chesapeake Exploration, L.L.C.
- 4. Chesapeake Exploration, L.L.C. entered into a Development Agreement dated 12/30/2011 and made effective 11/1/11 with TOTAL E&P USA, Inc. and CHK Utica, L.L.C., to jointly develop certain geographical areas within the State of Ohio. The proposed Smith Unit is located within the geographical areas subject to the Development Agreement.

FURTHER AFFIANT SAYETH NAUGHT.

Highsaw – Staff Landman

STATE OF OKLAHOMA

COUNTY OF OKLAHOMA

) ss:

Sworn to and subscribed before me this 1344 day of 2018, by Robert Highsaw.



Notary Public

STATE OF OHIO DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL AND GAS RESOURCES MANAGEMENT

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In re the Matter of the Application of Chesapeake Exploration, L.L.C. for Unit Operation

Application Date: November 13, 2018

Smith Unit

DUE DILIGENCE AFFIDAVIT

- I, Robert Highsaw, being first duly sworn and cautioned, affirm and state as follows:
- 1. Affiant is competent to testify on the matters contained in this affidavit.
- 2. Affiant, Robert Highsaw, is employed by Chesapeake Operating, L.L.C., which is a subsidiary of Chesapeake Energy Corporation and an affiliate of Chesapeake Exploration, L.L.C. ("Chesapeake"), as a Staff Landman. Affiant's job duties include assisting with the Chesapeake's oil and gas development program in eastern Ohio by conducting leasing, reviewing title and leasehold while planning new oil and gas drilling and production units, planning unit formation, performing leasehold maintenance activities, compiling regulatory applications, ensuring regulatory compliance, and working with a multi-disciplinary team to develop the Utica Shale / Point Pleasant formation in eastern Ohio.
- 3. Affiant has the authority to sign this affidavit on behalf of Chesapeake.
- 4. Pursuant to Ohio Revised Code § 1509.28, Chesapeake is filing an application with the Chief of the Division of Oil and Gas Resources Management ("DOGRM") requesting an order authorizing Chesapeake to operate the Unitized Formation and applicable land area, identified as the Smith Unit ("Application"). The Smith Unit is located in Harrison, Ohio, and as a unit of an entire pool or part thereof consists of sixty-seven (67) separate tracts of land covering approximately 1,252.637414 acres.
- 5. As a function of Affiant's job duties, Affiant, or persons under Affiant's direction or supervision, has personal knowledge of the matters set forth in this affidavit. Further, Affiant, or persons under Affiant's direction or supervision, has reviewed all documents which reflect Chesapeake's efforts to identify and locate mineral interest owners within the proposed unit.
- 6. Affiant attests that Chesapeake exercised reasonable due diligence to identify all mineral interest owners within the proposed unit and ascertain their current addresses prior to filing its Application with DOGRM. These efforts included performing title work, reviewing court records, reviewing marriage records, birth records, and death records, searching county auditor tax records, searching records maintained by the United States Postal Service, and utilizing electronic resources. Affiant further attests that where it was not reasonably possible or practicable to identify all of mineral interest owners' identities or addresses, Chesapeake will provide notice by publication of a hearing scheduled pursuant to R.C. 1509.28.
- 7. Affiant further attests that, to the best of its knowledge and belief, the names and addresses of mineral interest owners it provided to DOGRM were accurate at the time Affiant filed its Application with DOGRM.
- 8. Affiant understands that the DOGRM is relying on the statements and representations contained in this affidavit to verify that Chesapeake has acted using ordinary standards of due diligence to identify and locate mineral interest owners for tracts contained within the proposed unit. Further, Chesapeake understands DOGRM expects Chesapeake to provide to DOGRM updated mineral interest owners information, if any, as soon as is practicable,

and understands that updated information may result in a new or rescheduled unitization hearing.

- 9. Nothing in this affidavit shall constitute a waiver of right in law or equity by the DOGRM or Chesapeake.
- 10. Affiant states that the above statements are true and accurate to the best of Affiant's knowledge and belief.

FURTHER AFFIANT SAYETH NAUGHT.

Robert Highsaw – Staff Landman

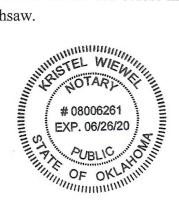
STATE OF OKLAHOMA

COUNTY OF OKLAHOMA

TY OF OKLAHOMA) Sworn to and subscribed before me this 134 day of <u>November</u>, pert Highsaw. ____, 2018, by Robert Highsaw.

)) ss:

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Notary Public