

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

In re the Matter of the Application of :
Eclipse Resources I, LP for Unit Operation :
: Application Date: May 1, 2020
: Supplement Date: May 29, 2020
Crawford B Unit : 2nd Supplement Date: June 3, 2020
: Leasing Update: August 3, 2020

**APPLICATION OF ECLIPSE RESOURCES I, LP (“ECLIPSE”)
FOR UNIT OPERATION**

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APPLICATION

Pursuant to Ohio Revised Code 1509.28, Eclipse Resources I, LP (“Eclipse”) hereby respectfully requests the Chief of the Division of Oil and Gas Resources Management (“Division”) to issue an order authorizing Eclipse to operate the Unitized Formation and applicable land area in Monroe County, Ohio (hereinafter, the “Crawford B Unit ”) as a unit according to the Unit Plan attached hereto and as more fully described herein. Eclipse makes this request for, and unitization is necessary 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

Eclipse is a corporation organized under the laws of the State of Delaware, with its principal office located at 122 West John Carpenter Freeway, Suite 300, Irving, Texas 75039. Eclipse is registered in good standing as an “owner” with the Division.

Eclipse 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:

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Austin Graybill
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II. PROJECT DESCRIPTION

The Crawford B Unit is located in Monroe County, Ohio, and consists of thirty (30) 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 Crawford B Unit is approximately 594.916 acres¹ and, at the time of this Application, Eclipse and its working partners has a lease on and the right to drill on and produce from approximately 81.10256% of the proposed unit or 482.492 acres of the proposed unit, which exceeds the sixty five percent (65%) threshold required by Ohio Revised Code 1509.28. Eclipse seeks this unit order as there are several tracts that are unleased or subject only to leases of fractional interests in the oil and gas underlying those tracts. These unleased and partially unleased tracts comprise approximately 16.14149% of the unit or 96.028 acres.² Further, there is an operator with whom Eclipse has not yet reached an agreement for the inclusion of their working interest in the Crawford B Unit, this interest amounts to approximately 2.75595% of the unit or approximately 16.396 acres of the unit.

Overall, Eclipse seeks this unit order to allow it to develop the Crawford B Unit in accordance with the Unit Plan to protect the correlative rights of all of the interest owners in the unit and prevent the waste of natural resources that would otherwise occur. To effectively and efficiently develop the Unit Area, therefore, Eclipse seeks authorization from the Division, as more specifically described herein, to drill and complete two horizontal wells in the Unitized Formation, from a well pad located off the southern portion of the Crawford B Unit, to efficiently test, develop, operate and produce the Unitized Formation for oil, natural gas, and related liquids production. Eclipse's plan for unit operations (the "Unit Plan") is attached to this Application as Attachment 1. Among other things, the Unit Plan allocates unit production and expenses based upon each tract's surface acreage participation in the unit, includes various operating provisions in the event that other entities or persons become owners in the unit, as that term is un-

¹ Unit acreage was determined by a survey of conducted of the unit for Eclipse.

² These interests are broken down in detail in Exhibit A-3 to the Unit Operating Agreement.

derstood in the Revised Code, and conforms to industry standards for the drilling and operating of horizontal wells.

III.
THE CHIEF SHOULD GRANT THIS APPLICATION

A Contents of Application

Pursuant to the Division's *Unitization Application Procedural Guideline* (dated November 2, 2018) a unitization application must include the following:

1. A cover letter requesting unitization.
 - See this Application.
2. An affidavit attesting that the applicant is the owner (as defined in R.C. 1509.01(K)) of at least 65% of the land overlying the pool that is the subject of the unitization request.
 - See Exhibit 9.³
3. A summary of the request for unitization that includes all of the following information:
 - a. A statement describing the reasons why unitization is necessary;
 - b. A description of the plan for development of the unit;
 - c. An identification of the geologic formation(s) to be developed;
 - d. An identification of the amount of acreage included in the unit and how the acreage was determined (Auditor's records, surveys, GIS, or other (specify));
 - e. An estimate of the value of the recovery and net *pv10* of oil and gas for each well proposed to be drilled in the unit area;
 - f. An estimate of the cost to drill and operate each well in the proposed unit, including an explanation of what costs are included in the estimate; and
 - g. A designated contact person for the applicant for communication purposes with the Division, including legal counsel for the applicant (if applicable).
 - See entirety of this Application, and in particular Sections II and III(C).
4. Exhibits A-1 through A-6 (as applicable) including the name of each mineral owner, current address of each mineral owner, parcel number of the mineral owner's tract, and respective acreage of the tract according to the following:

Exhibit A-1: A plat map of the unit, identifying the counties, townships, section numbers, parcel boundaries, and all parcels in the unit, including the tract and corresponding parcel number.

- See Exhibit A-1 to the Unit Operating Agreement.

Exhibit A-2: A list identifying all mineral owners in the proposed unit, leased or unleased. This list is to be produced in both PDF format and Excel format with no color coding. If any subsequent revisions are made after the applica-

³ References to Exhibit 1 through Exhibit 10 refer to those exhibits in Attachment 2.

tion has been submitted, an additional column shall be included on the Exhibit A-2 supplements that explains all changes made pertaining to each tract.

- See Exhibit A-2 to the Unit Operating Agreement.

Exhibit A-3: A list identifying all unleased mineral owners in the proposed unit including the tract, corresponding parcel number and acreage.

- See Exhibit A-3 to the Unit Operating Agreement.

Exhibit A-4: A list identifying all committed working interest owners in the proposed unit including the tract, corresponding parcel number and acreage.

- See Exhibit A-4 to the Unit Operating Agreement.

Exhibit A-5: A list identifying all uncommitted working interest owners in the proposed unit including the tract, corresponding parcel number and acreage.

- See Exhibit A-5 to the Unit Operating Agreement.

Exhibit A-6: A list identifying all parcels subject to ownership litigation. If any mineral owner in the unit is a corporation or other business entity, include the name of a contact person within that corporation or business.

- See Exhibit A-6 to the Unit Operating Agreement.

5. A mailing list in Excel format containing only the names and addresses of all mineral owners (leased and unleased) and all working interest owners (committed and uncommitted).

- See Attachment 7.

6. A map that shows all of the following:

- The boundary of the proposed unit area;
- The total acreage of the proposed unit area;
- The proposed location of the well pad(s) and wells to be drilled that complies with state setback and spacing requirements;
- The tracts of land within the unit area that are leased to the applicant, shown in yellow;
- The tracts of land within the unit area that are unleased, shown in red;
- The tracts of land within the unit area that are leased to other operators (i.e. uncommitted working interest owners), including an identification of the operators, shown in green;
- A five hundred foot boundary around each parcel in the unit that is not leased by the applicant or that is not subject to an agreement with the applicant;
- Identification of each tract within the unit area by parcel number of a size that is legible; and
- The scale.

- See Exhibit 3.

7. An aerial photograph that shows all of the following:

- The boundary of the proposed unit area;

- b. The proposed location of the well pad and wells to be drilled;
- c. The tracts of land within the proposed unit area that are unleased outlined in red;
- d. Identification of each tract within the unit area by parcel number of a size that is legible; and
- e. The scale.
 - See Exhibit 4.

8. A gamma ray-density or gamma-ray resistivity geophysical type log identifying the proposed geological formations to be produced.

- See Exhibit 1 and Exhibit 2.

9. A cross-section showing the applicable formations that the applicant is proposing to drill into and produce from in the unit area.

- See Exhibit 1 and Exhibit 2.

10. A map showing all existing units adjacent to the unit proposed in the application with an identification of any permitted, drilled, and/or producing wells in the existing units.

- See Exhibit 6.

11. An exhibit showing unitized and non-unitized scenarios for each proposed to be drilled in the proposed unit area and assuming the spacing requirements of R.C. Chapter 1509 and/or Ohio Adm. Code 1501:9: (1) an estimate of the cost to drill and operate, (2) the value of recovery, and (3) the net pvt10 of oil and gas.

- See Exhibit 5.

12. An exhibit showing the locations and distances of the well(s) to the proposed unit area and an identification of the well(s) by name, permit number, lateral length, and production start date that reserve calculations were based upon.

- See Exhibit 10.

13. An affidavit attesting to attempts to lease the unleased mineral owners and attempts to commit working interest owners and an exhibit in the form of a spreadsheet which the applicant shows attempts to lease the unleased properties and attempts to commit working interest owners that includes:

- a. The tract number and parcel number;
- b. The mineral owners name;
- c. The dates of all attempts;
- d. The address at which the contact was made or attempted;
- e. The person who was contacted, how contact was made, and by whom;
- f. The response given by the unleased mineral owner when contacted; and
- g. Any joint venture or farmout proposal to another operator, if applicable.

- See Exhibit 7.

14. An affidavit attesting that the applicant acted with due diligence to identify all mineral interest owners and their current addresses within the proposed unit.

- See Exhibit 8.

15. A copy of a joint operating agreement for working interest partners, if applicable.

- See Attachment 1.

16. An affidavit attesting to a valid joint venture or other agreements for the unit that discloses all joint venture partners.

- See Not applicable.

17. Prefiled testimony of a geologist, engineer and a landman.

- See Attachment 3, Attachment 4 and Attachment 5 respectively.

18. Any additional information that the applicant determines is beneficial for the Chief to consider in support of their request.

- See entirety of Application.

Eclipse has submitted all of the required information.

B. 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 – if 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 operations and for the protection or adjustment of correlative rights.

See Ohio Revised Code 1509.28(A). The Chief's order becomes effective once approved in writing by those owners who will be responsible for paying at least sixty-five percent of the costs of the unit's operations and by royalty and unleased fee-owners of sixty-five percent 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)(2).

C. Eclipse's Application Meets this 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 an approximate depth located from fifty feet above the top of the Utica formation to fifty feet below the top of the Trenton formation, and frequently referred to as the Utica/Point Pleasant Formation. The evidence presented with this Application and at the hearing will establish that the Unitized Formation is part of a pool and, thus, an appropriate subject of unit operation under Ohio Revised Code 1509.28.⁴ Additionally, that evidence will establish that the Unitized Formation is likely to be reasonably uniformly distributed throughout the Unit Area and thus, it is reasonable for the Unit Plan to allocate unit production and expenses to separately owned tracts on a surface acreage basis.

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

The evidence presented in this Application and at the hearing will establish that unit operations are reasonably necessary to increase substantially the ultimate recovery of oil and gas from the lands making up the Crawford B Unit. The Unit Plan contemplates the potential drilling of two horizontal wells from one well pad, with a lateral length of approximately 9,744 feet

⁴ 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).

and 9,772 feet respectively.⁵ Eclipse estimates that operations under the requested unit order will substantially increase the ultimate resource recovery from this unit if the unit wells are drilled as proposed by approximately 41.3 Bcf of natural gas.⁶ Absent a unit order, this additional volume will be unable to be produced, and therefore stranded, resulting in a waste of resources.

iii. *The Value of Additional Recovery Exceeds Its Additional Costs*

The evidence presented in this Application and at the hearing will establish that the value of the estimated additional recovery exceeds the estimated additional costs incident to conducting unit operations, including costs associated with the construction, drilling, completion of the well, to obtain such additional recovery. The cost to develop the Crawford B Unit as proposed in this Application is estimated to be \$18.198 million while without an order authorizing unit operations development of the unit is estimated to cost \$11.278 million. Thus, unit operations increase the cost to develop the Crawford B Unit by \$6.92 million this increase in cost is accompanied by an increase to estimated production, the 41.3 Bcf, which increases the net present value of the unit by \$20.636⁷ million. The gross value of production for the life of the well increases to \$45.44 million from \$1.748 million without an order authorizing unit operations. This information is set out in detail on Exhibit 5, showing the estimated value of the well's production, the estimated drilling and operating costs, and the difference between those numbers with and without an order authorizing unit operations (incorporated here as if fully rewritten herein).

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

The Unit Plan proposed by Eclipse meets the requirements set forth in Ohio Revised Code 1509.28. The unit area is described in the Unit Plan 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 Plan at Article 3, with greater specificity throughout, including the Unit Operating Agreement. Unit production and unit expenses are allocated on a surface acreage basis as set forth in the Unit Plan at Articles 3 through 5 (generally), except where otherwise allocated by the Unit Operating Agreement. Payment of unit expenses is addressed generally in

⁵ See Exhibit 4.

⁶ See Exhibit 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.

⁷ As the estimate for the Net Present Value without a unit order produces a negative value the difference between the unitized and non-unitized projects is calculated assuming the non-unitized development value to be zero.

Article 3 of the Unit Plan. The Unit Plan provides for payment of costs by other working interest owners in the event a participant is unable to meet its financial obligations related to the unit - see, e.g., Article VI of the Unit Operating Agreement. Voting provisions related to the supervision and conduct of unit operations are set forth in Article 14 of the Unit Plan, with each person having a vote that has a value corresponding to the percentage of unit expenses chargeable against that person's interest. And the commencement and termination of operations are addressed in Articles 11 and 12 of the Unit Plan.⁸

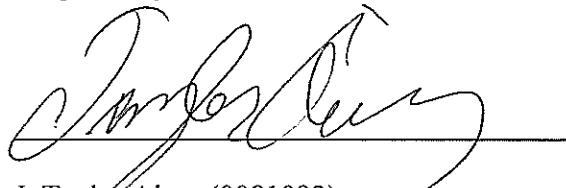
IV. HEARING

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 Exhibit 9. Accordingly, Eclipse respectfully requests that the Division set a hearing at the Division's Columbus complex on the earliest available hearing date to consider the Application filed herein.

V. 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 estimated additional costs. Eclipse 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). Eclipse therefore asks the Chief to issue an order authorizing Eclipse to operate the Crawford B Unit according to the Unit Plan attached hereto.

Respectfully submitted,



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Irving, Texas 75039
Attorney for Applicant,
Eclipse Resources I, LP

⁸ See Attachment 1 generally.

Attachment 1

**PLAN FOR UNIT OPERATIONS
THE CRAWFORD B UNIT
ADAMS TOWNSHIP
MONROE COUNTY, OHIO**

The following shall constitute the Plan for Unit Operations applicable to the Crawford B Unit in Adams Township, Monroe County, Ohio, and having as its purpose the unitized management, operation, and development of the Unitized Formation as herein defined, to advance the public welfare and promote conservation, to increase the ultimate recovery of oil, natural gas, and other substances therefrom, and to avoid waste and protect the correlative rights of the owners of interests therein.

ARTICLE 1: DEFINITIONS

As used in this Plan for Unit Operations:

Division refers to the Ohio Department of Natural Resources' Division of Oil and Gas Resources Management.

Effective Date is the time and date this Plan 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.

Plan means this Plan for Unit Operations for the Crawford B Unit, Adams Township, Monroe County, Ohio, including, unless otherwise expressly mentioned, any and all attachments and exhibits hereto.

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 Exhibit A-2 to the Unit Operating Agreement.

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

Uncommitted Working Interest Owner is a Working Interest Owner, other than an Unleased Mineral Owner, who has not agreed to, ratified or otherwise approved this Plan. Uncommitted Working Interest Owners are likely, but not necessarily, to have obtained their interest by lease.

Unit Area means the lands shown on the plat attached as Exhibit A-1 and identified on Exhibit A-2 to the Unit Operating Agreement, including also areas to which this Plan 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 Plan for or on account of Unit Operations.

Unitized Formation means the subsurface portion of the Unit Area located from 50' feet above the top of the Utica formation to 50' feet below the top of the Trenton formation.

Unit Operating Agreement means the modified A.A.P.L. Form 610-1989 Model Form Operating Agreement that is attached hereto as Exhibit 1 and incorporated herein by reference as

if fully re-written herein and to which all Working Interest Owners are deemed to be parties; provided, however, that in the event two or more Working Interest Owners have agreed to a separate joint operating agreement relating to the supervision and conduct of unit operations contemplated herein, such operating agreement shall control. The 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. In the event of a conflict between the terms of the Unit Operating Agreement and the other terms of this Plan, excluding the Unit Operating Agreement, such other terms of this Plan shall govern.

Unit Operations are all operations conducted pursuant to this Plan.

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

Unit Participation is the sum of the interests obtained by multiplying the Working Interest of a Working Interest Owner in each Tract by the Tract Participation of such Tract.

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.

Unleased Mineral Owner is a Person who owns Oil and Gas Rights free of a lease or other instrument conveying all or any portion of the Working Interest in such rights to another.

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 shall be regarded as a Working Interest to the extent of 87.5% thereof and a Royalty Interest to the extent of the remaining 12.5% thereof, such Royalty Interest to be subject to any post-production costs, taxes, assessments and other fees as may be set forth in the Unit Operating Agreement. A Royalty Interest created out of a Working Interest subsequent to the participation of, subscription to, ratification of, approval by, or consent to this Plan by the owner of such Working Interest shall continue to be subject to such Working Interest burdens and obligations that are stated in this Plan.

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 Exhibits A-1 and A-2 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 lessees, and as if the lease contained all of the provisions of this Plan.

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.

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 Plan 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.

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 Plan.

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 Plan, 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 Plan.

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 Plan.

Unit Expenses. All Unit Expenses shall be just and reasonable, and shall be charged as set out in the Unit Operating Agreement. Except as otherwise provided in the Unit Operating Agreement, Unit Expenses shall be allocated to each Tract based upon its Tract Participation, and shall be paid by the Tract's Working Interest Owners.

ARTICLE 4: TRACT PARTICIPATIONS

Tract Participations. The Tract Participation of each Tract is identified in Exhibit A-2 to the Unit Operating Agreement and shall be determined solely upon an acreage basis as the proportion that the Tract surface acreage inside the Unit Area bears to the total surface acreage of the Unit Area. The Tract Participation of each Tract has been calculated as follows: TRACT SURFACE ACRES WITHIN THE UNIT AREA DIVIDED BY THE TOTAL SURFACE ACRES WITHIN THE UNIT AREA.

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 Plan 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; however, if any Tract has no well thereon capable of producing Unitized Substances on the Effective Date, the Tract shall, for the purpose of this determination, be deemed to have one (1) such well thereon.

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, including without limitation the testing of the productivity of any wells drilled in the Unit Area.

Royalty payments shall be made to Unleased Mineral Owners beginning with the initial distribution date for production of Unitized Substances from any well within the Crawford B Unit.

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; provided, however, that nothing in this provision shall apply to Unleased Mineral Owners.

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 Plan. 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. The following shall apply 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.

Unleased 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 Crawford B 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 Crawford B Unit, owned by a non-consenting Unleased Mineral Owner.

ARTICLE 9: CHANGE OF TITLE

Covenant Running with the Land. This Plan shall extend to, be binding upon, and inure to the benefit of the owners of the Royalty Interests and Working Interests in Oil and Gas Rights unitized hereby, and the respective heirs, devisees, legal representatives, successors, and assigns thereof, and shall constitute a covenant running with the lands, leases, and interests impacted hereby.

Waiver of Rights of Partition. No Person affected hereby shall 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.

ARTICLE 10: RELATIONSHIPS OF PERSONS

No Partnership. All duties, obligations, and liabilities arising hereunder shall be several and not joint or collective. This Plan 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 Plan 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 Plan shall become effective as of, and operations may commence hereunder as of, 7:00 A.M. on 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 Plan in the event of a material modification by the Division of all or any part of this Plan 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 Plan, 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 Plan, 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 one hundred and eighty (180) consecutive days, or so long as other Unit Operations are conducted without a cessation of more than one hundred and eighty (180) consecutive days, unless sooner terminated by Working Interest Owners owning a combined Unit 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 Plan, 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 Plan 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 Plan, affecting the separate Tracts.

Certificate of Termination. Upon termination of this Plan, 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 Plan 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 Plan by signing the original, a counterpart thereof, or other instrument approving this Plan. 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 Plan 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. Each Working Interest Owner shall have a voting interest equal to its Unit Participation. All decisions, determinations, or approvals by Working Interest Owners hereunder shall be made by the affirmative vote of one or more parties having a combined voting interest of at least fifty one percent (51%). No vote, however, is required for such determinations if the Unit Operator owns or controls fifty one percent (51%) or more of the Working Interest in the Unit Area.

Severability of Provisions. The provisions of this Plan 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 Plan.

Laws and Regulations. This Plan 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 Plan shall be in accordance with Ohio law.

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

MODEL FORM OPERATING AGREEMENT

OPERATING AGREEMENT

DATED

_____ , 20
Year

OPERATOR Eclipse Resources I, LP

CONTRACT AREA See Exhibit "A" attached hereto for the description of the Contract Area.

UNIT

COUNTY OR PARISH OF _____, **STATE OF** _____

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AMERICAN ASSOCIATION OF PETROLEUM
LANDMEN, 4100 FOSSIL CREEK BLVD.
FORT WORTH, TEXAS, 76137, APPROVED FORM.

A.A.P.L. NO. 610 - 1989

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If any provision of any exhibit, except Exhibits "E", "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, unless such Oil and Gas Interest is already covered by an Oil and Gas Lease subject to this agreement, that Interest shall be treated for all purposes of this 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.

B. Interests of Parties in Costs and Production:

Unless changed by other provisions, all costs and liabilities incurred in operations under this agreement shall be borne and paid, and all equipment and materials acquired in operations on the Contract Area shall be owned, by the parties as their 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 described hereafter.

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

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

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

C. Subsequently Created Interests:

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

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

ARTICLE IV.

TITLES

A. Title Examination:

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

Each party, / shall be responsible for securing curative matter and pooling amendments or agreements required in connection with Leases or Oil and Gas Interests contributed by such party. / Operator shall be responsible for the preparation

1 and recording of pooling designations or declarations and communitization agreements as well as the conduct of hearings before governmental
2 agencies for the securing of spacing or pooling orders or any other orders necessary or appropriate to
3 the conduct of operations hereunder. This shall not prevent any party from appearing on its own behalf at such hearings.
4 Costs incurred by Operator, including fees paid to outside attorneys, which are associated with hearings before governmental
5 agencies, and which costs are necessary and proper for the activities contemplated under this agreement, shall be direct
6 charges to the joint account and shall not be covered by the administrative overhead charges as provided in Exhibit "C." Operator shall make
7 no charge for services rendered by its staff attorneys or other personnel in the performance of the above
8 functions, **except as provided herein.**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

70 3. Other Losses: All losses of Leases or Interests committed to this agreement, other than those set forth in Articles
71 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
72 Exhibit "A." This shall include but not be limited to the loss of any Lease or Interest through failure to develop or because
73 express or implied covenants have not been performed (other than performance which requires only the payment of money),
74 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

1 readjustment of interests in the remaining portion of the Contract Area on account of any joint loss.

2 **4. Curing Title:** 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
3 Lease or Interest acquired by any party hereto (other than the party whose interest has failed or was lost) during the ninety
4 (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
5 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.
6 shall not apply to such acquisition.

7
8 **ARTICLE V.**
9 **OPERATOR**

10 **A. Designation and Responsibilities of Operator:**

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

21 **B. Resignation or Removal of Operator and Selection of Successor:**

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

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

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

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

63 **C. Employees and Contractors:**

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

67 **D. Rights and Duties of Operator:**

68 **1. Competitive Rates and Use of Affiliates:** All / wells drilled on the Contract Area shall be drilled / on a competitive
69 basis at the usual rates prevailing in the / area. If it so desires, Operator may employ its own tools and equipment in
70 performing such operations /, but its charges therefor shall not exceed the prevailing rates in the / area and the rate of such charges
71 shall be agreed upon by the parties in writing before drilling operations are commenced, and such work shall be performed by
72 Operator under the same terms and conditions as are customary and usual in the area in contracts of independent contractors
73 who are doing work of a similar nature. All work performed or materials supplied by affiliates or related parties of Operator
74 shall be performed or supplied at competitive rates, pursuant to written agreement, and in accordance with customs and
75 standards prevailing in the industry.

76 **2. Discharge of Joint Account Obligations:** Except as herein otherwise specifically provided, Operator shall promptly pay
77 and discharge expenses incurred in the development and operation of the Contract Area pursuant to this agreement and shall

1 charge each of the parties hereto with their respective proportionate shares upon the expense basis provided in Exhibit "C."
2 Notwithstanding anything contained in this agreement to the contrary, the expenses covered by this Article V.D.2 shall include all costs
3 expenses, and liabilities related to or arising out of any release, protection, defense, indemnification, and/or hold harmless obligations assumed
4 or incurred by Operator in the development and operation of the Contract area. Operator shall keep an accurate record of the joint account
5 hereunder, showing expenses incurred and charges and credits made and received.

6 **3. Protection from Liens:** Operator shall pay, or cause to be paid, as and when they become due and payable, all accounts
7 of contractors and suppliers and wages and salaries for services rendered or performed, and for materials supplied on, to or in
8 respect of the Contract Area or any operations for the joint account thereof, and shall keep the Contract Area free from liens and encumbrances
9 resulting therefrom except for those resulting from a bona fide dispute as to services rendered or materials supplied.

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

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

30 **6. Filing and Furnishing Governmental Reports:** Operator will file, and upon written request promptly furnish copies to
31 each requesting **Non-Operator** not in default of its payment obligations, all operational notices, reports or applications
32 required to be filed by local, State, Federal or Indian agencies or authorities having jurisdiction over operations hereunder.
33 Each Non-Operator shall provide to Operator on a timely basis all information necessary to Operator to make such filings.

34 **7. Drilling and Testing Operations:** The following provisions shall apply to each well drilled **hereunder, including but not**
35 **limited to the Initial Well:**

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

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

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

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

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

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

56 **ARTICLE VI.**
57 **DRILLING AND DEVELOPMENT**

58 **A. Initial Well:**

59 Operator shall commence the operations for the drilling of the Initial Well within one (1) year of the effective date of a final non-appealable unitization order issued by the appropriate regulatory authority allowing
60 for operations of the Contract Area and shall thereafter continue the drilling of the well with due diligence to **a depth sufficient in the**
61 **Operator's reasonable opinion, to adequately test the Utica / Point Pleasant formation with the Initial Well.**

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

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5**B. Subsequent Operations:**

6 1. Proposed Operations: If any party hereto should desire to drill any well on the Contract Area other than the Initial Well, or
 7 if any party should desire to Rework, Sidetrack, Deepen, Recomplete or Plug Back a dry hole or a well no longer capable of
 8 producing in paying quantities in which such party has not otherwise relinquished its interest in the proposed objective Zone under
 9 this agreement, the party desiring to drill, Rework, Sidetrack, Deepen, Recomplete or Plug Back such a well shall give written
 10 notice of the proposed operation to the parties who have not otherwise relinquished their interest in such objective Zone under this agreement
 11 and to all other parties in the case of a proposal for Sidetracking or Deepening, specifying the work to be
 12 performed, the location, proposed depth, objective Zone and the estimated cost of the operation. The parties to whom such a
 13 notice is delivered shall have thirty (30) days after receipt of the notice within which to notify the party proposing to do the work
 14 whether they elect to participate in the cost of the proposed operation. If a drilling rig is on location, notice of a proposal to
 15 facsimile, email, or similar electronic communication
 16 Rework, Sidetrack, Recomplete, Plug Back or Deepen may be given by telephone / and the response period shall be limited to forty-
 17 inclusive eight (48) hours, / exclusive of Saturday, Sunday and legal holidays. Failure of a party to whom such notice is delivered to reply
 18 within the period above fixed shall constitute an election by that party not to participate in the cost of the proposed operation.
 19 Any proposal by a party to conduct an operation conflicting with the operation initially proposed shall be delivered to all parties
 20 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**
 21 **Agreement with less than its full and undivided working interest in the Contract Area.**

22 If all parties to whom such notice is delivered elect to participate in such a proposed operation, the parties shall be
 23 contractually committed to participate therein provided such operations are commenced within the time period hereafter set
 24 forth, and Operator shall, no later than ninety (90) days after expiration of the notice period of thirty (30) days (or as
 25 promptly as practicable after the expiration of the forty-eight (48) hour period when a drilling rig is on location, as the case
 26 may be), actually commence the proposed operation and thereafter complete it with due diligence at the risk and expense of
 27 the parties participating therein; provided, however, said commencement date may be extended upon written notice of same
 28 by Operator to the other parties, for a period of up to thirty (30) additional days if, in the sole opinion of Operator, such
 29 additional time is reasonably necessary to obtain permits from governmental authorities, surface rights (including rights-of-
 30 way) or appropriate drilling equipment, or to complete title examination or curative matter required for title approval or
 31 acceptance. If the actual operation has not been commenced within the time provided (including any extension thereof as
 32 specifically permitted herein or in the force majeure provisions of Article XI) and if any party hereto still desires to conduct
 33 said operation, written notice proposing same must be resubmitted to the other parties in accordance herewith as if no prior
 34 proposal had been made. Those parties that did not participate in the drilling of a well for which a proposal to Deepen or
 35 Sidetrack is made hereunder shall, if such parties desire to participate in the proposed Deepening or Sidetracking operation,
 36 reimburse the Drilling Parties in accordance with Article VI.B.4. in the event of a Deepening operation and in accordance
 37 with Article VI.B.5. in the event of a Sidetracking operation.

38 2. Operations by Less Than All Parties: to drill, Rework, Recomplete, Sidetrack, Deepen, or Plug Back a well
 39 (a) Determination of Participation. If any party to whom such notice is delivered / as provided in Article VI.B.1. or
 40 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
 41 Article, the party or parties giving the notice and such other parties as shall elect to participate in the operation shall, no
 42 later than ninety (90) days after the expiration of the notice period of thirty (30) days (or as promptly as practicable after the
 43 expiration of the forty-eight (48) hour period when a drilling rig is on location, as the case may be) actually commence the
 44 proposed operation * and complete it with due diligence. Operator shall perform all work for the account of the Consenting
 45 Parties; provided, however, if no drilling rig or other equipment is on location, and if Operator is a Non-Consenting Party,
 46 the Consenting Parties shall either: (i) request Operator to perform the work required by such proposed operation for the
 47 account of the Consenting Parties, or (ii) designate one of the Consenting Parties as Operator to perform such work. The
 48 rights and duties granted to and imposed upon the Operator under this agreement are granted to and imposed upon the party
 49 designated as Operator for an operation in which the original Operator is a Non-Consenting Party. Consenting Parties, when
 50 conducting operations on the Contract Area pursuant to this Article VI.B.2., shall comply with all terms and conditions of this
 51 agreement. ***Nothing contained herein shall prohibit Operator from actually commencing the proposed operation before the**
 52 **expiration of the notice period, nor shall such commencement affect in any way the validity of a party's election or deemed election.**

53 If less than all parties approve any proposed operation, the proposing party, immediately after the expiration of the
 54 applicable notice period, shall advise all Parties of the total interest of the parties approving such operation and its
 55 recommendation as to whether the Consenting Parties should proceed with the operation as proposed. Each Consenting Party,
 56 within forty-eight (48) hours (exclusive of Saturday, Sunday, and legal holidays) after delivery of such notice, shall advise the
 57 proposing party of its desire to (i) limit participation to such party's interest as shown on Exhibit "A" or (ii) carry only its
 58 proportionate part (determined by dividing such party's interest in the Contract Area by the interests of all Consenting Parties in
 59 the Contract Area) of Non-Consenting Parties' interests, or (iii) carry its proportionate part (determined as provided in (ii)) of
 60 Non-Consenting Parties' interests together with all or a portion of its proportionate part of any Non-Consenting Parties'
 61 interests that any Consenting Party did not elect to take. Any interest of Non-Consenting Parties that is not carried by a
 62 Consenting Party shall be deemed to be carried by the party proposing the operation if such party does not withdraw its
 63 proposal. Failure to advise the proposing party within the time required shall be deemed an election under (i). In the event a
 64 drilling rig is on location, notice may be given by telephone, / and the time permitted for such a response shall not exceed a
 65 total of forty-eight (48) hours (inclusive of Saturday, Sunday and legal holidays). The proposing party, at its election, may
 66 withdraw such proposal if there is less than 100% participation and shall notify all parties of such decision within ten (10)
 67 days, or within twenty-four (24) hours if a drilling rig is on location, following expiration of the applicable response period.
 68 If 100% subscription to the proposed operation is obtained, the proposing party shall promptly notify the Consenting Parties
 69 of their proportionate interests in the operation and the party serving as Operator shall commence such operation within the
 70 period provided in Article VI.B.1., subject to the same extension right as provided therein.

71 (b) Relinquishment of Interest for Non-Participation. The entire cost and risk of conducting such operations shall be
 72 borne by the Consenting Parties in the proportions they have elected to bear same under the terms of the preceding
 73 paragraph. Consenting Parties shall keep the leasehold estates involved in such operations free and clear of all liens and
 74 encumbrances of every kind created by or arising from the operations of the Consenting Parties. If such an operation results

1 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
 2 the surface location at their sole cost, risk and expense; provided, however, that those Non-Consenting Parties that
 3 participated in the drilling, Deepening or Sidetracking of the well shall remain liable for, and shall pay, their proportionate
 4 shares of the cost of plugging and abandoning the well and restoring the surface location insofar only as those costs were not
 5 increased by the subsequent operations of the Consenting Parties. If any well drilled, Reworked, Sidetracked, Deepened,
 6 Recompleted or Plugged Back under the provisions of this Article results in a well capable of producing Oil and/or Gas in
 7 paying quantities, the Consenting Parties shall Complete and equip the well to produce at their sole cost and risk, and the
 8 well shall then be turned over to Operator (if the Operator did not conduct the operation) and shall be operated by it at the
 9 expense and for the account of the Consenting Parties. Upon commencement of operations for the drilling, Reworking,
 10 Sidetracking, Recompleting, Deepening or Plugging Back of any such well by Consenting Parties in accordance with the
 11 provisions of this Article, each Non-Consenting Party shall be deemed to have relinquished to Consenting Parties, and the
 12 Consenting Parties shall own and be entitled to receive, in proportion to their respective interests, all of such Non-
 13 Consenting Party's interest in the well and share of production therefrom or, in the case of a Reworking, Sidetracking, Deepening,
 14 Recompleting or Plugging Back, or a Completion pursuant to Article VI.C.1. Option No. 2, all of such Non-
 15 Consenting Party's interest in the production obtained from the operation in which the Non-Consenting Party did not elect
 16 to participate. Such relinquishment shall be effective until the proceeds of the sale of such share, calculated at the well, or
 17 market value thereof if such share is not sold (after deducting applicable ad valorem, production, severance, and excise taxes,
 18 royalty, overriding royalty and other interests not excepted by Article III.C. payable out of or measured by the production
 19 from such well accruing with respect to such interest until it reverts), shall equal the total of the following:

20 (i) 500 % of each such Non-Consenting Party's share of the cost of any newly acquired surface equipment
 21 beyond the wellhead connections (including but not limited to stock tanks, separators, treaters, pumping equipment and
 22 piping), plus 100% of each such Non-Consenting Party's share of the cost of operation of the well commencing with first
 23 production and continuing until each such Non-Consenting Party's relinquished interest shall revert to it under other
 24 provisions of this Article, it being agreed that each Non-Consenting Party's share of such costs and equipment will be that
 25 interest which would have been chargeable to such Non-Consenting Party had it participated in the ^{proposed} ~~well~~ of operation
 26 from the beginning of the operations; and

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

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

40 (c) Reworking, Recompleting or Plugging Back. An election not to participate in the drilling, Sidetracking or
 41 Deepening of a well shall be deemed an election not to participate in any Reworking or Plugging Back operation proposed in
 42 such a well, or portion thereof, to which the initial non-consent election applied that is conducted at any time prior to full
 43 recovery by the Consenting Parties of the Non-Consenting Party's recoupment amount. Similarly, an election not to
 44 participate in the Completing or Recompleting of a well shall be deemed an election not to participate in any Reworking
 45 operation proposed in such a well, or portion thereof, to which the initial non-consent election applied that is conducted at
 46 any time prior to full recovery by the Consenting Parties of the Non-Consenting Party's recoupment amount. Any such
 47 Reworking, Recompleting or Plugging Back operation conducted during the recoupment period shall be deemed part of the
 48 cost of operation of said well and there shall be added to the sums to be recouped by the Consenting Parties 500 % of
 49 that portion of the costs of the Reworking, Recompleting or Plugging Back operation which would have been chargeable to
 50 such Non-Consenting Party had it participated therein. If such a Reworking, Recompleting or Plugging Back operation is
 51 proposed during such recoupment period, the provisions of this Article VI.B. shall be applicable as between said Consenting
 52 Parties in said well.

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

57 In the case of any Reworking, Sidetracking, Plugging Back, Recompleting or Deepening operation, the Consenting
 58 Parties shall be permitted to use, free of cost, all casing, tubing and other equipment in the well, but the ownership of all
 59 such equipment shall remain unchanged; and upon abandonment of a well after such Reworking, Sidetracking, Plugging Back,
 60 Recompleting or Deepening, the Consenting Parties shall account for all such equipment to the owners thereof, with each
 61 party receiving its proportionate part in kind or in value, less cost of salvage.

62 Within ninety (90) days after the completion of any operation under this Article, the party conducting the operations
 63 for the Consenting Parties shall furnish each Non-Consenting Party with an inventory of the equipment in and connected to
 64 the well, and an itemized statement of the cost of drilling, Sidetracking, Deepening, Plugging Back, testing, Completing,
 65 Recompleting, and equipping the well for production; or, at its option, the operating party, in lieu of an itemized statement
 66 of such costs of operation, may submit a detailed statement of monthly billings. Each month thereafter, during the time the
 67 Consenting Parties are being reimbursed as provided above, the party conducting the operations for the Consenting Parties
 68 shall furnish the Non-Consenting Parties with an itemized statement of all costs and liabilities incurred in the operation of
 69 the well, together with a statement of the quantity of Oil and Gas produced from it and the amount of proceeds realized from
 70 the sale of the well's working interest production during the preceding month. In determining the quantity of Oil and Gas
 71 produced during any month, Consenting Parties shall use industry accepted methods such as but not limited to metering or
 72 periodic well tests. Any amount realized from the sale or other disposition of equipment newly acquired in connection with
 73 any such operation which would have been owned by a Non-Consenting Party had it participated therein shall be credited
 74 against the total unreturned costs of the work done and of the equipment purchased in determining when the interest of such

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1 Non-Consenting Party shall revert to it as above provided; and if there is a credit balance, it shall be paid to such Non-
2 Consenting Party.

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

11 3. Stand-By Costs: When a well which has been drilled or Deepened has reached its authorized depth and all tests have
12 been completed and the results thereof furnished to the parties, or when operations on the well have been otherwise
13 terminated pursuant to Article VI.F., stand-by costs incurred pending response to a party's notice proposing a Reworking, Sidetracking,
14 Deepening, Recompleting, Plugging Back or Completing operation in such a well (including the period required
15 under Article VI.B.6. to resolve competing proposals) shall be charged and borne as part of the drilling or Deepening
16 operation just completed. Stand-by costs subsequent to all parties responding, or expiration of the response time permitted,
17 whichever first occurs, and prior to agreement as to the participating interests of all Consenting Parties pursuant to the terms
18 of the second grammatical paragraph of Article VI.B.2. (a), shall be charged to and borne as part of the proposed operation,
19 but if the proposal is subsequently withdrawn because of insufficient participation, such stand-by costs shall be allocated
20 between the Consenting Parties in the proportion each Consenting Party's interest as shown on Exhibit "A" bears to the total
21 interest as shown on Exhibit "A" of all Consenting Parties.

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

29 4. Deepening: If less than all parties elect to participate in a drilling, Sidetracking, or Deepening operation proposed
30 pursuant to Article VI.B.1., the interest relinquished by the Non-Consenting Parties to the Consenting Parties under Article
31 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
32 of which the parties were given notice under Article VI.B.1. ("Initial Objective"). / Such well shall not be Deepened beyond the
33 Initial Objective without first complying with this Article to afford the Non-Consenting Parties the opportunity to participate
34 in the Deepening operation.

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

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

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

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

64 5. Sidetracking: Any party having the right to participate in a proposed Sidetracking operation that does not own an
65 interest in the affected wellbore at the time of the notice shall, upon electing to participate, tender to the wellbore owners its
66 proportionate share (equal to its interest in the Sidetracking operation) of the value of that portion of the existing wellbore
67 to be utilized as follows:

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

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

1 6. Order of Preference of Operations. See Article XVI.B.

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

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

8 **C. Completion of Wells; Reworking and Plugging Back:**

9 1. Completion: Without the consent of all parties, no well shall be drilled, Deepened or Sidetracked, except any well
10 drilled, Deepened or Sidetracked pursuant to the provisions of Article VI.B.2. of this agreement. Consent to the drilling,
11 Deepening or Sidetracking shall include:

12 For Horizontal Wells and Multi-Lateral Wells, all
13 Option No. 1: All / necessary expenditures for the drilling, Deepening, equipping of the well, including tankage and/or surface
14 facilities. See also Article XVI.E.

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

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

48 **D. Other Operations:**

49 Operator shall not undertake any single project reasonably estimated to require an expenditure in excess of One Hundred
50 Thousand Dollars (\$ 100,000.00) except in connection with the
51 drilling, Sidetracking, Reworking, Deepening, Completing, Recompleting or Plugging Back of a well that has been previously
52 authorized by or pursuant to this agreement; provided, however, that, in case of explosion, fire, flood or other sudden
53 emergency, whether of the same or different nature, Operator may take such steps and incur such expenses as in its opinion
54 are required to deal with the emergency to safeguard life and property but Operator, as promptly as possible, shall report the
55 emergency to the other parties. If Operator prepares an AFE for its own use, Operator shall furnish any Non-Operator so
56 requesting an information copy thereof for any single project costing in excess of One Hundred Thousand Dollars
57 (\$100,000.00). Any party who has not relinquished its interest in a well shall have the right to propose that
58 Operator perform repair work or undertake the installation of artificial lift equipment or ancillary production facilities such as
59 salt water disposal wells or to conduct additional work with respect to a well drilled hereunder or other similar project (but
60 not including the installation of gathering lines or other transportation or marketing facilities, the installation of which shall
61 be governed by separate agreement between the parties) reasonably estimated to require an expenditure in excess of the
62 amount first set forth above in this Article VI.D. (except in connection with an operation required to be proposed under
63 Articles VI.B.1. or VI.C.1. Option No. 2, which shall be governed exclusively by those Articles). Operator shall deliver such
64 proposal to all parties entitled to participate therein. If within thirty (30) days thereof Operator secures the written consent
65 of any party or parties owning at least 51 % of the interests of the parties entitled to participate in such operation,
66 each party having the right to participate in such project shall be bound by the terms of such proposal and shall be obligated
67 to pay its proportionate share of the costs of the proposed project as if it had consented to such project pursuant to the terms
68 of the proposal.

69 **E. Abandonment of Wells:**

70 1. Abandonment of Dry Holes: Except for any well drilled or Deepened pursuant to Article VI.B.2., any well which has
71 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
72 without the consent of all parties. Should Operator, after diligent effort, be unable to contact any
73 party, or should any party fail to reply within forty-eight (48) hours (exclusive of Saturday, Sunday and legal holidays) after
74 delivery of notice of the proposal to plug and abandon such well, such party shall be deemed to have consented to the
75 proposed abandonment. All such wells shall be plugged and abandoned in accordance with applicable regulations and at the
76 cost, risk and expense of the parties who participated in the cost of drilling, Sidetracking or Deepening such well. Any party who objects to

1 plugging and abandoning such well by notice delivered to Operator within forty-eight (48) hours (exclusive of Saturday,
2 Sunday and legal holidays) after delivery of notice of the proposed plugging shall take over the well as of the end of such
3 forty-eight (48) hour notice period and conduct further operations in search of Oil and/or Gas subject to the provisions of
4 Article VI.B.; failure of such party to provide proof reasonably satisfactory to Operator of its financial capability to conduct
5 such operations or to take over the well within such period or thereafter to conduct operations on such well or plug and
6 abandon such well shall entitle Operator to retain or take possession of the well and plug and abandon the well. The party
7 taking over the well shall indemnify Operator (if Operator is an abandoning party) and the other abandoning parties against
8 liability for any further operations conducted on such well except for the costs of plugging and abandoning the well and
9 restoring the surface, for which the abandoning parties shall remain proportionately liable.

10 2. Abandonment of Wells That Have Produced: Except for any well in which a Non-Consent operation has been
11 conducted hereunder for which the Consenting Parties have not been fully reimbursed as herein provided, any well which has
12 or a well capable of production even if such well has never in fact produced ~~who participated in the cost of drilling the well~~
13 been completed as a producer / shall not be plugged and abandoned without the consent of all parties ⁷. If all parties consent to
14 such abandonment, the well shall be plugged and abandoned in accordance with applicable regulations and at the cost, risk
15 and expense of all the parties hereto. Failure of a party to reply within thirty (30) days of delivery of notice of proposed
16 abandonment shall be deemed an election to consent to the proposal. If, within thirty (30) days after delivery of notice of the
17 proposed abandonment of any well, all parties do not agree to the abandonment of such well, those wishing to continue its
18 operation from the Zone then open to production shall be obligated to take over the well as of the expiration of the
19 applicable notice period and shall indemnify Operator (if Operator is an abandoning party) and the other abandoning parties
20 ~~with respect to the well, including the costs of plugging and abandoning the well and restoring the surface~~ against liability for any further operations ⁷ on the well conducted by such parties. Failure of such party or parties to provide
21 proof reasonably satisfactory to Operator of their financial capability to conduct such operations or to take over the well
22 within the required period or thereafter to conduct operations on such well shall entitle operator to retain or take possession
23 of such well and plug and abandon the well.

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

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

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

54 **F. Termination of Operations:**

55 Upon the commencement of an operation for the drilling, Reworking, Sidetracking, Plugging Back, Deepening, testing,
56 Completion or plugging of a well, including but not limited to the Initial Well, such operation shall not be terminated without
57 consent of parties bearing 75 % of the costs of such operation; provided, however, that in the event granite or other
58 practically impenetrable substance or condition in the hole is encountered which renders further operations impractical,
59 Operator may discontinue operations and give notice of such condition in the manner provided in Article VI.B.1, and the
60 provisions of Article VI.B. or VI.E. shall thereafter apply to such operation, as appropriate.

61 **G. Taking Production in Kind:**

62 **Option No. 1: Gas Balancing Agreement Attached**

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

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

72 If any party fails to make the arrangements necessary to take in kind or separately dispose of its proportionate
73 share of the Oil produced from the Contract Area, Operator shall have the right, subject to the revocation at will by
74 the party owning it, but not the obligation, to purchase such Oil or sell it to others at any time and from time to
75 time, for the account of the non-taking party. Any such purchase or sale by Operator may be terminated by

1 Operator upon at least ten (10) days written notice to the owner of said production and shall be subject always to
2 the right of the owner of the production upon at least ten (10) days written notice to Operator to exercise at any
3 time its right to take in kind, or separately dispose of, its share of all Oil not previously delivered to a purchaser.
4 Any purchase or sale by Operator of any other party's share of Oil shall be only for such reasonable periods of time
5 as are consistent with the minimum needs of the industry under the particular circumstances, but in no event for a
6 period in excess of one (1) year.

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

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

17 In the event one or more parties' separate disposition of its share of the Gas causes split-stream deliveries to separate
18 pipelines and/or deliveries which on a day-to-day basis for any reason are not exactly equal to a party's respective proportionate
19 share of total Gas sales to be allocated to it, the balancing or accounting between the parties shall be in accordance with
20 any Gas balancing agreement between the parties hereto, whether such an agreement is attached as Exhibit "E" or is a
21 separate agreement. Operator shall give notice to all parties of the first sales of Gas from any well under this agreement.

22 **Option No. 2: No Gas Balancing Agreement:**

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

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

32 ~~If any party fails to make the arrangements necessary to take in kind or separately dispose of its proportionate
33 share of the Oil and/or Gas produced from the Contract Area, Operator shall have the right, subject to the
34 revocation at will by the party owning it, but not the obligation, to purchase such Oil and/or Gas or sell it to others
35 at any time and from time to time, for the account of the non-taking party. Any such purchase or sale by Operator
36 may be terminated by Operator upon at least ten (10) days written notice to the owner of said production and shall
37 be subject always to the right of the owner of the production upon at least ten (10) days written notice to Operator
38 to exercise its right to take in kind, or separately dispose of, its share of all Oil and/or Gas not previously delivered
39 to a purchaser; provided, however, that the effective date of any such revocation may be deferred at Operator's
40 election for a period not to exceed ninety (90) days if Operator has committed such production to a purchase
41 contract having a term extending beyond such ten (10) day period. Any purchase or sale by Operator of any other
42 party's share of Oil and/or Gas shall be only for such reasonable periods of time as are consistent with the
43 minimum needs of the industry under the particular circumstances, but in no event for a period in excess of one (1)
44 year.~~

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

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

57 **ARTICLE VII.**

58 **EXPENDITURES AND LIABILITY OF PARTIES**

59 **A. Liability of Parties:**

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

70 **B. Liens and Security Interests: See also Article XVI.DD.**

71 Each party grants to the other parties hereto a lien upon any interest it now owns or hereafter acquires in Oil and Gas
72 Leases and Oil and Gas Interests in the Contract Area, and a security interest and/or purchase money security interest in any
73 interest it now owns or hereafter acquires in the personal property and fixtures on or used or obtained for use in connection
74 therewith, to secure performance of all of its obligations under this agreement including but not limited to payment of expense,

1 interest and fees, the proper disbursement of all monies paid hereunder, the assignment or relinquishment of interest in Oil
2 and Gas Leases as required hereunder, and the proper performance of operations hereunder. Such lien and security interest
3 granted by each party hereto shall include such party's leasehold interests, working interests, operating rights, and royalty and
4 overriding royalty interests in the Contract Area now owned or hereafter acquired and in lands pooled or unitized therewith or
5 otherwise becoming subject to this agreement, the Oil and Gas when extracted therefrom and equipment situated thereon or
6 used or obtained for use in connection therewith (including, without limitation, all wells, tools, and tubular goods), and accounts
7 (including, without limitation, accounts arising from gas imbalances or from the sale of Oil and/or Gas at the wellhead),
8 contract rights, inventory and general intangibles relating thereto or arising therefrom, and all proceeds and products of the
9 foregoing.

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

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

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

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

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

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

55 **C. Advances:**

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

65 **D. Defaults and Remedies:**

66 If any party fails to discharge any financial obligation under this agreement, including without limitation the failure to
67 make any advance under the preceding Article VII.C. or any other provision of this agreement, within the period required for
68 such payment hereunder, then in addition to the remedies provided in Article VII.B. or elsewhere in this agreement, the
69 remedies specified below shall be applicable. For purposes of this Article VII.D., all notices and elections shall be delivered only by Operator,
70 except that Operator shall deliver any such notice and election requested by a non-defaulting Non-Operator,
71 and when Operator is the party in default, the applicable notices and elections can be delivered by any Non-Operator.
72 Election of any one or more of the following remedies shall not preclude the subsequent use of any other remedy specified
73 below or otherwise available to a non-defaulting party.

74 1. Suspension of Rights: Any party may deliver to the party in default a Notice of Default, which shall specify the default,

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

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

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

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

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

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

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

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

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

57 **F. Taxes:**

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

70 If Operator considers any tax assessment improper, Operator may, at its discretion, protest within the time and manner
71 prescribed by law, and prosecute the protest to a final determination, unless all parties agree to abandon the protest prior to final
72 determination. During the pendency of administrative or judicial proceedings, Operator may elect to pay, under protest, all such taxes
73 and any interest and penalty. When any such protested assessment shall have been finally determined, Operator shall pay the tax for
74 the joint account, together with any interest and penalty accrued, and the total cost shall then be assessed against the parties, and be

1 paid by them, as provided in Exhibit "C."

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

4

5

ARTICLE VIII.

ACQUISITION, MAINTENANCE OR TRANSFER OF INTEREST

A. Surrender of Leases:

9 The Leases covered by this agreement, insofar as they embrace acreage in the Contract Area, shall not be surrendered in whole
10 or in part unless all parties consent thereto; **however, no consent shall be necessary to release a lease which has expired or otherwise**
11 **terminated in accordance with its terms.**

Should

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

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

B. Renewal or Extension of Leases:

38 If any party secures a renewal or replacement of an Oil and Gas Lease or Interest subject to this agreement, then all other parties
39 shall be notified promptly upon such acquisition or, in the case of a replacement Lease taken before expiration of an existing Lease,
40 promptly upon expiration of the existing Lease. The parties notified shall have the right for a period of thirty (30) days following
41 delivery of such notice in which to elect to participate in the ownership of the renewal or replacement Lease, insofar as such Lease
42 affects lands within the Contract Area, by paying to the party who acquired it their proportionate shares of the acquisition cost
43 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
44 parties in the Contract Area. Each party who participates in the purchase of a renewal or replacement Lease shall be given an
45 assignment of its proportionate interest therein by the acquiring party.

46 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
47 by the parties who elect to participate therein, in a ratio based upon the relationship of their respective percentage of participation in
48 the Contract Area to the aggregate of the percentages of participation in the Contract Area of all parties participating in the
49 purchase of such renewal or replacement Lease. The acquisition of a renewal or replacement Lease by any or all of the parties hereto
50 shall ~~not cause a readjustment of the interests of the parties stated in Exhibit "A" / but~~ **pursuant to Article XVII.** any renewal or replacement Lease in which
51 less than all parties elect to participate shall ~~not be subject to this agreement but shall be deemed subject to a separate Operating~~
52 ~~Agreement in the form of this agreement.~~

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

55 The provisions of this Article shall apply to renewal or replacement Leases whether they are for the entire interest covered by
56 the expiring Lease or cover only a portion of its area or an interest therein. Any renewal or replacement Lease taken before the
57 expiration of its predecessor Lease, or taken or contracted for or becoming effective within six (6) months after the expiration of the
58 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
59 the renewal or replacement Lease becomes effective; but any Lease taken or contracted for more than six (6) months after the
60 expiration of an existing Lease shall not be deemed a renewal or replacement Lease and shall not be subject to the provisions of this
61 agreement.

62 The provisions in this Article shall ~~not also~~ be applicable to extensions of Oil and Gas Leases.

C. Acreage or Cash Contributions:

64 While this agreement is in force, if any party contracts for a contribution of cash towards the drilling of a well or any other
65 operation on the Contract Area, such contribution shall be paid to the party who conducted the drilling or other operation and shall
66 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
67 the contribution is made shall promptly tender an assignment of the acreage, without warranty of title, to the Drilling Parties in the
68 proportions said Drilling Parties shared the cost of drilling the well. Such acreage shall become a separate Contract Area and, to the
69 extent possible, be governed by provisions identical to this agreement. Each party shall promptly notify all other parties of any
70 acreage or cash contributions it may obtain in support of any well or any other operation on the Contract Area. The above
71 provisions shall also be applicable to optional rights to earn acreage outside the Contract Area which are in support of well drilled
72 inside / Contract Area.

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

1 **D. Assignment; Maintenance of Uniform Interest:**

2 For the purpose of maintaining uniformity of ownership in the Contract Area in the Oil and Gas Leases, Oil and Gas
3 Interests, wells, equipment and production covered by this agreement no party shall sell, encumber, transfer or make other
4 disposition of its interest in the Oil and Gas Leases and Oil and Gas Interests embraced within the Contract Area or in wells,
5 equipment and production unless such disposition covers either:
6 1. the entire interest of the party in all Oil and Gas Leases, Oil and Gas Interests, wells, equipment and production; or
7 2. an equal undivided percent of the party's present interest in all Oil and Gas Leases, Oil and Gas Interests, wells,
8 equipment and production in the Contract Area.

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

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

26 **E. Waiver of Rights to Partition:**

27 If permitted by the laws of the state or states in which the property covered hereby is located, each party hereto owning an
28 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
29 undivided interest therein.

30 **F. Preferential Right to Purchase**

31 (Optional: Check if applicable)

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

44 **ARTICLE IX.**

45 **INTERNAL REVENUE CODE ELECTION**

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

62 **ARTICLE X.**

63 **CLAIMS AND LAWSUITS**

64 Operator may settle any single uninsured third party damage claim or suit arising from operations hereunder if the expenditure
65 does not exceed One Hundred Thousand Dollars (\$100,000.00) and if the payment is in complete settlement
66 of such claim or suit. If the amount required for settlement exceeds the above amount, the parties hereto shall assume and take over
67 the further handling of the claim or suit, unless such authority is delegated to Operator. All costs and expenses of handling settling,
68 or otherwise discharging such claim or suit shall be a the joint expense of the parties participating in the operation from which the
69 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
70 hereunder over which such individual has no control because of the rights given Operator by this agreement, such party shall
71 immediately notify all other parties, and the claim or suit shall be treated as any other claim or suit involving operations hereunder.

72 **ARTICLE XI.**

73 **FORCE MAJEURE**

74 If any party is rendered unable, wholly or in part, by force majeure to carry out its obligations under this agreement, other

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

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

ARTICLE XII.

NOTICES

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

ARTICLE XIII.

TERM OF AGREEMENT

33 This agreement shall remain in full force and effect as to the Oil and Gas Leases and/or Oil and Gas Interests subject
34 hereto for the period of time selected below; provided, however, no party hereto shall ever be construed as having any right, title
35 or interest in or to any Lease or Oil and Gas Interest contributed by any other party beyond the term of this agreement.

36 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
37 of the Contract Area, whether by production, extension, renewal or otherwise

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

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

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

ARTICLE XIV.

COMPLIANCE WITH LAWS AND REGULATIONS

A. Laws, Regulations and Orders:

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

B. Governing Law:

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

C. Regulatory Agencies:

70 Nothing herein contained shall grant, or be construed to grant, Operator the right or authority to waive or release any
71 rights, privileges, or obligations which Non-Operators may have under federal or state laws or under rules, regulations or orders promulgated
72 under such laws in reference to oil, gas and mineral operations, including the location, operation, or
73 production of wells, on tracts offsetting or adjacent to the Contract Area.

74 With respect to the operations hereunder, Non-Operators agree to release Operator from any and all losses, damages,

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

ARTICLE XV. MISCELLANEOUS

A. Execution:

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

B. Successors and Assigns:

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

30 C. Counterparts:

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

D. Severability:

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

ARTICLE XVI. OTHER PROVISIONS

A. Conflicts:

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

46 B. Priority of Operations:

47 Notwithstanding anything herein to the contrary, it is agreed that where a well shall have been drilled to the objective depth or the
48 objective formation and the Consenting Parties in the well cannot mutually agree upon the sequence and timing of further operations
49 regarding said well, the following elections shall control in the order of priority enumerated hereafter:

1. An election to do additional logging, coring or testing;
2. An election to attempt to complete the well at either the objective depth or objective formation;
3. An election to plug back and attempt to complete said well at an alternate depth or formation;
4. An election to deepen said well;
5. An election to sidetrack said well;
6. An election to plug and abandon said well.

56 It is provided, however, that if, at the time the Consenting Parties are considering any of the above elections, the hole is in such a
57 condition that a reasonably prudent Operator would not conduct the operations contemplated by the particular election involved for
58 fear of placing the hole in jeopardy or losing the same prior to completing the well in the objective depth or objective formation, such
59 election shall be eliminated from the priorities hereinabove set forth.

61 C. Netting and Setoff:

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

69 D. Multiple Billing:

70 In no event shall Operator be required to make more than four billings for the entire interest credited to each Non-Operator on Exhibit
71 "A". If any Non-Operator to this agreement disposes of any part or all of the interest credited to it on Exhibit "A", hereinafter referred to
72 as "Selling Party," such Selling Party shall be solely responsible for billing its assignee or assignees and shall remain primarily liable to the
73 other Parties for the interest or interests assigned until such time as Selling Party has (1) designated and qualified the assignees to receive
74 the billing for its interest, (2) designated assignees have been approved and accepted by Operator, and (3) has furnished to Operator written

1 notice of the conveyance and photocopy of the recorded assignments by which the transfer is made. The sale or other disposition of any
2 interest in the leases covered by this agreement shall be made specifically subject to the provisions of this Article. Operator's approval shall
3 not be unreasonably withheld.

5
6 **E. Horizontal Wells:**

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

15 2. Operator shall have the right to cease drilling a Horizontal Well or Multi-lateral Well at any time, for any reason, and such
16 Horizontal Well or Multi-lateral Well shall be deemed to have reached its objective depth so long as Operator has drilled such
17 Horizontal Well or Multi-lateral Well to the objective formation and has drilled laterally in the objective formation for a distance
18 which is at least equal to fifty percent (50%) of the length of the total horizontal drainhole displacement (displacement from true
19 vertical) proposed for the operation. In like manner, Operator may continue drilling to extend a proposed lateral in a Horizontal
20 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
21 judgment, it would be reasonably prudent to do so.

22
23 **F. Sidetracking:**

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

28
29 **G. Further Assurances:**

30 In connection with this agreement, the parties agree to execute and deliver such additional documents and instruments and to perform
31 such additional acts as may be necessary or appropriate to effectuate, carry out, and perform all the terms, provisions and conditions of
32 this agreement. Without limiting the generality of the foregoing, the parties agree to execute and deliver to Operator one or more Recording
33 Supplement to Operating Agreement and Financing Statement in the form of Exhibit "H" in recordable form, giving notice of the existence
34 of this Operating Agreement, which Operator shall cause to be recorded in the county or counties in which any portion of the Contract
35 Area is located.

36
37 **H. Covenants Running with the Land:**

38 The terms, provisions, covenants and conditions of this agreement shall be deemed to be covenants running with the lands, the
39 lease or leases and leasehold estate covered hereby, and all of the terms, provisions, covenants and conditions of this agreement shall
40 be binding upon and inure to the benefit of the parties hereto, their respective heirs, executors, administrators, personal
41 representatives, successors and assigns.

42
43 **I. Headings:**

44 The headings and captions used in this Agreement are inserted for convenience of reference only and shall not be a part of, or
45 control or affect the meaning of, this Agreement.

46
47 **J. Indemnity for Access to Contract Area:**

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

52
53 **K. Contract Area and Drilling Unit:**

54 "Contract Area" shall mean a contiguous area in size and configuration as determined by the Operator in order to accommodate
55 anticipated wells, wellbore paths and wellbore lengths located or to be located within the anticipated Drilling Unit. The Contract
56 Area shall be, to the extent practicable, the same as the Drilling Unit, and shall include all Oil and Gas Leases and Oil and Gas
57 Interests within the boundary of the Contract Area, and may include oil and gas leases or oil and gas interests not controlled or owned
58 by the Parties to this Agreement or other interests which cannot be included in the Drilling Unit at the time the Drilling Unit is formed
59 or created but are reasonably anticipated to be controlled or acquired by the Parties in the future. The Parties shall make good faith
60 efforts to include otherwise stranded acreage in a Contract Area where reasonably practical.

61
62 **L. Working Interest Adjustment:**

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

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

70
71 **M. Contract Area / Drilling Unit Adjustment:**

72 It is recognized by the Parties that it may be prudent and/or necessary to enlarge or reduce the size of an existing Contract Area
73 / Drilling Unit and/or include within an existing Contract Area / Drilling Unit acreage which was not initially included therein.
74 Without the consent of the Parties, an existing Contract Area / Drilling Unit may not be enlarged or reduced in size if such change is

1 more than 10% of the existing Contract Area/Drilling Unit size. Such consent shall not be unreasonably withheld, delayed or
2 conditioned. The party proposing such enlargement or reduction to an existing Contract Area / Drilling Unit shall notify the other
3 party(ies) in writing, providing an explanation for the Contract Area / Drilling Unit modification proposal. To the extent a Contract
4 Area / Drilling Unit is modified pursuant to this Agreement, the working interests of the Parties shall be recalculated in the manner
5 set forth in Article XVI.L and a modified declaration of pooled unit shall be prepared and filed of record.

6 To the extent the Contract Area is modified pursuant to this Agreement, this Agreement shall be amended with revised Exhibits
7 "A," "A-1," "A-2" and "H," and a new Recording Supplement to Operating Agreement and Financing Agreement shall be prepared
8 and filed of record.

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

10
11 **N. Disputes Concerning Objective Depths:**

12 If, during the drilling of any well being drilled hereunder, a bona fide dispute shall exist as to whether the proposed depth has
13 been reached in such well (as for example, whether a well has been drilled to a depth sufficient to test a particular sand or formation
14 or if the well has reached the stratigraphic equivalent of a particular depth), the opinion of a majority in interest, and not in numbers,
15 of the parties participating in the drilling of such well shall control and be binding upon all parties. If the parties are equally divided,
16 the opinion of the Operator will control.

17
18 **O. Metering of Production:**

19 In the event of transfer, sale, encumbrance or other disposition of interest within the Contract Area which creates the necessity
20 of separate measurement of production, the party creating the necessity for such measurement shall alone bear the cost of purchase,
21 installation, operation of such facilities and additional administrative and accounting costs incurred by operator relating to such
22 transfer, sale, encumbrance or other disposition.

23
24 **P. Additional Rights:**

25 If any rights in the Contract Area between the parties hereto are acquired by virtue of the drilling, deepening or completion of a
26 well, a Non-Consenting party in such drilling, deepening, or completing shall not be entitled to any interest in such rights.

27
28 **Q. Preparation of Exhibit "A":**

29 The interests of the parties as set forth on Exhibit "A" were calculated based on the best information available to the Operator.
30 If the information is found to have been erroneous, or if a mathematical or typographical error has been made in preparing the
31 exhibits, the interests may be recalculated to reflect the correct interest.

32
33 **R. Regulatory Expenses:**

34 Notwithstanding anything to the contrary contained in the Operating Agreement of Accounting Procedure (Exhibit "C") fees for
35 the legal services, title costs, curative work, costs and expenses in connection with preparations and presentations of evidence and
36 exhibits at Government Regulatory or forced unitization hearings, preparation and handling of applications to and hearing before a
37 State, Federal, or Other Regulatory Agencies pertaining to the Contract Area shall not be considered as Administrative Overhead,
38 but Operator shall be entitled to make a direct charge against the joint account for such expenses.

39
40 **S. Advance Cost of Operations:**

41 Any party electing to participate in any Proposed Operations pursuant to this Operating Agreement, shall, if invoiced by
42 Operator, be obligated to advance its proportionate share of the total estimated costs shown on the proposal for such operation.
43 Operator shall have the right to invoice each Consenting Party for its proportionate share of such costs within thirty (30) days prior
44 to the anticipated commencement date of such operations or promptly following the commencement of operations after the expiration
45 of the election period stated in Article VI.B.1. with respect to a completion operation. Thereafter, the provisions of Article VI.B.2.(a)
46 shall apply with respect to treatment of the proposal and the Non-Consenting Interest. Any Consenting Party electing to carry a
47 portion of the interest of the Non-Consenting Party shall advance its additional share of costs within thirty (30) days following receipt
48 of operator's invoice therefore. In the event Operator pre-bills the Non-Operator(s) as provided herein (and such amount is actually
49 paid by such Non-Operator(s)), but Operator does not actually commence the operation for which the pre-bill was submitted within
50 sixty (60) days of the stated commencement date, then Operator shall return said pre-bill payment amount to the Non-Operator(s).
51 Any Consenting Party who fails to pay the full amount of its invoice to Operator within thirty (30) business days following receipt of
52 such invoice shall be deemed in default. Operator shall provide written notice of default. Non-Operator(s) shall have five (5) business
53 days from receipt of written notice to make its payment. Failure to make timely payment to cure the default shall deem the non-
54 paying Consenting Party as Non-Consenting Party with respect to such Operation.

55
56 **T. Confidentiality:**

57 All data, including but not limited to, geophysical, geological or completion data (other than data routinely publicly disclosed by
58 other Oil and Gas producers) acquired by Operator or a Non-Operator under this Operating Agreement as a result of joint operations
59 conducted hereunder shall be kept confidential from parties other than the parties to this Operating Agreement by such Operator or
60 Non-Operator unless the release of such information to a third party is agreed upon by the parties or is required by law. Any
61 permitted release of information to a third party must have the prior written consent of all parties hereto and said third party must
62 agree in writing to be bound by the provisions of this paragraph. Nothing herein shall prohibit any party from disclosing whatever
63 information in such manner as may be required by statute, rule or regulation, including the rules or regulations of any stock exchange
64 on which any securities of such party or any affiliates are traded; nor shall any party be prohibited by the terms hereof from disclosing
65 information acquired under this Agreement to any financial institution or investors providing or proposing financing to the disclosing
66 party. Notwithstanding anything herein to the contrary, a Non-Consenting Party shall not be entitled to any geophysical, geological,
67 completion, drilling, cost, production or other data with respect to any operation or well undertaken under this Agreement that such
68 Non-Consenting Party has not participated in.

69
70 **U. Terms:**

71 The parties hereto agree that for purposes of this Agreement, any reference to "_____" shall mean _____ (or any
72 successor or permitted assign of such party), and any reference to "Eclipse" shall mean Eclipse Resources I, LP (or any successor or
73 permitted assign of each such party).

1 **V. Revenue Distribution:**

2 Subject to the Operator's rights to withhold disbursements of royalties, overriding royalties and other payments contained in the
3 provisions of this agreement and applicable law, rule or regulations. Except as otherwise agreed to, Operator will make
4 disbursements of all royalties, overriding royalties and other payments out of, with respect, to production which are attributable to
5 Non-Operator's contributed Oil and Gas Leases or Oil and Gas Interests in the Contract Area at Non-Operator's direction provided
6 Non-Operator shall execute such documents as may be necessary in the opinion of Operator to enable Operator to receive all payments
7 for oil, gas or other hydrocarbons directly from the said purchases. In the event, Operator will use its reasonable business efforts to
8 make disbursements correctly, but shall not be liable for incorrect disbursements except in the event of its gross negligence or willful
9 misconduct.

10 **W. Operator as Disbursing Party for Non-Operators:**

11 1. If a party to this Agreement other than Operator elects not to take in kind its share of production from the Contract Area,
12 and Operator either purchases such production or sells it to others for the account of the non-taking party pursuant to
13 Article VI.G., then Operator shall unilaterally act on behalf of such non-taking party for the purposes of: (a) marketing
14 such non-taking party's share of production produced from the Contract Area; and (b) receiving and disbursing or causing
15 to be disbursed the proceeds received by Operator from the sale of such non-taking party's share of such proceeds;
16 provided, however, that such sale or marketing shall be subject to the terms and conditions of this Section XVI.I.

17 2. Prior to Operator purchasing such production or Operator entering into a commitment to deliver such Non-Operator's
18 production to a third party, Operator shall provide to such Non-Operator a report itemizing the terms and conditions,
19 including the price therefor, of the gathering, transportation, treatment, processing, and other similar arrangements on
20 which such Non-Operator's production shall be handled.

21 3. Operator shall make or cause to be made a disbursement of such Non-Operator's proceeds within 60 days after the end of
22 the month in which Operator receives such proceeds, and should Operator fail to do so due to Operator's own gross
23 negligence, all late payments due to Non-Operator shall bear interest from the due date until paid at a per annum rate
24 equal to the lesser of (i) the prime rate in effect at JP Morgan Chase on the first day of the month in which the delinquency
25 occurs, plus 300 basis points or (ii) the highest non-usurious rate permitted by applicable law. All costs incurred by or at
26 the direction of Operator in making such disbursements (excluding interest on late payments but including, without
27 limitation, all costs incurred by or at the direction of Operator in the preparation and circulation of division orders), but
28 expressly not including those costs identified in the Accounting Procedure (Exhibit "C" to the Operating Agreement) as
29 being covered by fixed rate overhead, shall be charged by Operator to the joint account of the parties in accordance with
30 their fractional interests in the Contract Area.

31 4. Any non-taking party may provide to Operator and the relevant purchaser or purchasers of production the written notices
32 provided for in Article VI.G., and thereby exercise the non-taking party's right to take in kind and/or, if acceptable to the
33 purchaser or purchasers of production, receive payment directly from the purchaser(s) thereof for its share of all
34 production.

35 5. Operator shall at all times (other than during any period when such Non-Operator has elected to take in kind) unilaterally
36 market and contract for each Non-Operator's production in a non-discriminatory fashion as to each Non-Operator's
37 production.

38 **X. Dispute Costs and Expenses:**

39 Costs and expenses attributable to the settlement of disputes, claims or litigation, other than the collection of debts by Operator
40 from Non-Operator, arising out of and between any of the parties to this Agreement, shall be borne solely by such parties and not by
41 the joint account.

42 **Y. Third Party Beneficiaries:**

43 Neither this Agreement, nor any performance hereunder by the parties hereto, shall be deemed or interpreted to create any right,
44 claim, cause of action, or remedy on behalf of any person not a party hereto.

45 **Z. Bankruptcy:**

46 If, following the granting of relief under the U.S. Bankruptcy Code to any party hereto as debtor thereunder, this Operating
47 Agreement should be held to be an executory contract within the meaning of 11 U.S.C. Section 365, then the Operator, or (if the
48 Operator is the debtor in bankruptcy) any other party, shall be entitled to a determination by debtor or any trustee for debtor within
49 thirty (30) days from the date an order for relief is entered under the Bankruptcy Code as to the rejection or assumption of this
50 Operating Agreement. In the event of an assumption, Operator or said other party shall be entitled to adequate assurances as to
51 future performance of debtor's obligations hereunder and the protection of the interests of all other parties.

52 **AA. Counterpart Execution:**

53 This Operating Agreement may be executed in counterpart, each of which is so executed shall be given the effect of execution of
54 the original agreement. If this Operating Agreement is executed in counterpart, the signature pages to the various counterparts may
55 be combined by Operator in one or more copies of this Operating Agreement and treated and given effect for all purposes.

56 **BB. Successor Operator:**

57 In the event of removal of Operator hereunder, the elected Successor Operator is hereby authorized to sign any necessary change
58 of Operator forms on behalf of the former Operator.

59 **CC. Limitation on Damages:**

60 WITH RESPECT TO ANY DISPUTE, CLAIM, COUNTERCLAIM, CONTROVERSY OR OTHER MATTERS (THE
61 "CLAIMS") ARISING BETWEEN THE PARTIES OUT OF OR RELATING TO THIS OPERATING AGREEMENT OR THE
62 SUBJECT MATTER HEREOF, OR ANY ALLEGED BREACH THEREOF, OR THE RELATIONSHIP BETWEEN THE
63 PARTIES CREATED BY THIS OPERATING AGREEMENT, EVEN THOUGH SOME OR ALL OF SUCH CLAIMS MAY BE
64 EXTRA-CONTRACTUAL IN NATURE, AND WHETHER SOUNDING IN TORT, CONTRACT, WARRANTY OR

1 OTHERWISE, INCLUDING ALLEGATIONS OF FRAUD IN THE INDUCEMENT, DUTY TO DEAL IN GOOD FAITH OR
2 CONFIDENTIAL RELATIONSHIP, NO PARTY SHALL EVER BE LIABLE FOR EXEMPLARY, PUNITIVE,
3 CONSEQUENTIAL, SPECIAL, INCIDENTAL, INDIRECT OR OTHER SIMILAR DAMAGES, INCLUDING LOST PROFITS,
4 BUSINESS INTERRUPTION OR LOSS OF OPPORTUNITY, WHETHER SUCH DAMAGES ARE CLAIMED UNDER BREACH
5 OF CONTRACT, BREACH OF WARRANTY, TORT OR ANY OTHER THEORY OR CAUSE OF ACTION AT LAW OR IN
6 EQUITY. THE LIMITATIONS IN THIS PARAGRAPH ARE PART OF THE MATERIAL, BARGAINED-FOR
7 CONSIDERATION FOR ENTERING THIS OPERATING AGREEMENT.
8

9 **DD. Liens and Security Rights:**

10 1. **Security Rights.** In addition to any other security rights and remedies provided by law with respect to services rendered or
11 materials and equipment furnished under this Operating Agreement for valuable consideration, the receipt and sufficiency of
12 which are hereby acknowledged, and in consideration of the covenants and mutual undertakings of the parties, herein, the parties
13 shall have the following security rights:

14 (i) **Lien in Favor of Operator.** To secure payment of the Non-Operators Indebtedness (as defined below) and the
15 performance of the covenants and obligations of Non-Operators under this Operating Agreement, Non-Operators do by these
16 presents hereby GRANT, BARGAIN, SELL, MORTGAGE, ASSIGN, TRANSFER, PLEDGE, HYPOTHECATE AND CONVEY to
17 Operator all of the right, title and interest of Non-Operators in and to the real and personal property, rights, titles, interests and
18 estates making up the Mortgaged Property (defined below).

20 For purposes of this Section, “Mortgaged Property” shall consist of the following: (1) the Oil and Gas Leases, Oil and Gas Interests
21 and other interests comprising the Contract Area, including any operating rights, working interests, royalty interests, overriding
22 royalty interests, non-participating royalty interests, production payments, net profits interests, or any other interest measured by or
23 payable out of production of hydrocarbons, and all renewals and extensions thereof related thereto (“Oil and Gas Properties”), (2)
24 the Oil and Gas in, on, under, and that may be produced from the Oil and Gas Properties, including, without limitation, Oil and Gas
25 produced with respect to all contractual rights, operating rights, leasehold interests, working interests, royalty interests, overriding
26 royalty interests, non-participating royalty interests, mineral interests, production payments, net profits interests, or any other
27 interest measured by or payable out of production of hydrocarbons (as such interests may be enlarged by the discharge of any
28 payments out of production or by the removal of any charges or encumbrances related thereto) and all other as-extracted collateral,
29 (3) all wells (oil, gas, oil/gas, injection, water or disposal), equipment, machinery and appurtenances, including fixtures, whether
30 corporeal or incorporeal located upon or pooled with and primarily used in connection with such Oil and Gas Properties, (4) all
31 easements, rights of way and other real property interests located upon and primarily used in connection with the Oil and Gas
32 Properties, (5) all permits, licenses, and servitudes to the extent primarily used in connection with the Oil and Gas Properties and (6)
33 all geological, geophysical, engineering, accounting, title, legal and other technical and business data primarily relating to the other
34 Mortgaged Property (but only to the extent that they are related to any or all of the other Mortgaged Property).

35 This lien is given to secure the complete and timely performance of and payment by Non-Operators of all Non-Operators
36 Indebtedness (defined below) of every kind or nature, whether now owed by Non-Operators or hereafter arising, pursuant to this
37 Operating Agreement. As used herein, the term “Non-Operators Indebtedness” shall mean (x) all costs and other expenses properly
38 chargeable to Non-Operators under this Operating Agreement, together with (y) all reasonable attorneys’ fees and other reasonable
39 costs sustained in the collection of amounts owed by Non-Operators and (z) interest at the rate of six percent (6%) per annum accrued
40 on the amounts set forth in clauses (x) and (y) if not paid when due and shall begin to accrue interest upon the first day after any
41 amount is not paid when due and shall continue to accrue until such amount is paid in full. Upon an Event of Default (defined below),
42 Operator shall have the additional right to notify the purchaser or purchasers of Non-Operators’ Oil and Gas production related to
43 the Mortgaged Property and collect such Non-Operators Indebtedness out of the proceeds from the sale of Non-Operators’ share of
44 Oil and Gas production until the amount owed has been paid. Operator shall have the right to offset the Non-Operators Indebtedness
45 against the proceeds from the sale of Non-Operators’ share of Oil and Gas production related to the Mortgaged Property. Any
46 purchaser of such production shall be entitled to rely on Operator’s statement concerning the amount of Non-Operators Indebtedness
47 owed by Non-Operators and payment made to Operator by any purchaser shall be binding and conclusive as between such purchaser
48 and Non-Operators. Notwithstanding anything to the contrary herein, the parties shall cooperate to ensure that royalties owed to
49 third parties are timely paid.

51 (ii) **Security Interest in Favor of Operator.** To further secure the complete and timely performance of and payment
52 by Non-Operators of the Non-Operators Indebtedness now existing or hereafter arising, Non-Operators hereby grants to Operator a
53 lien and continuing security interest in and to all of its right, title, interest, in and to the Collateral (defined below).

54 For purposes of this Section, “Collateral” shall mean, collectively: (A) all equipment, accounts, contract rights, general
55 intangibles, chattel paper, commercial tort claims, documents, instruments, goods, inventory, insurance contracts, insurance
56 proceeds, inventory, hydrocarbons, as-extracted collateral, operating rights, working interests, royalty interests, overriding royalty
57 interests, non-participating royalty interests, production payments, net profits interests, or any other interest measured by or payable
58 out of production of hydrocarbons (as such interests may be enlarged by the discharge of any payments out of production or by the
59 removal of any charges or encumbrances) and fixtures (to the extent any of the preceding terms are defined in the Uniform
60 Commercial Code presently in effect in the jurisdiction in which such property is situated (“Applicable UCC”) such term shall have
61 the meaning provided for such term in the Applicable UCC) of any kind and character to the extent such items primarily relate to
62 the Mortgaged Properties or are primarily attributable to the Mortgaged Properties, or primarily used in connection with the
63 ownership, use or exploitation of the Mortgaged Properties and (B) all the proceeds and products of the items described in preceding
64 clause (A), and all substitutions therefor, replacements thereof, or accessions thereto, all of which, whether now owned or hereafter
65 acquired, whether now or hereafter acquired by operation of law or otherwise.

67 (iii) **Lien in Favor of Non-Operators.** To secure payment of the Operator Indebtedness (defined below) and the
68 performance of the covenants and obligations of Operator under this Operating Agreement, Operator does by these presents hereby
69 GRANT, BARGAIN, SELL, MORTGAGE, ASSIGN, TRANSFER, PLEDGE, HYPOTHECATE AND CONVEY to Non-Operators
70 all of Operator’s right, title and interest in and to the real and personal property, rights, titles, interests and estates making up the
71 Mortgaged Property.

73 This lien is given to secure the complete and timely performance of and payment by Operator of all Operator Indebtedness
74 (defined below) of every kind or nature, whether now owed by Operator or hereafter arising, pursuant to this Operating Agreement.

1 As used herein, the term "Operator Indebtedness" shall mean (x) all costs and other expenses properly chargeable to Operator under
 2 this Operating Agreement, together with (y) all reasonable attorneys' fees and other reasonable costs sustained in the collection of
 3 amounts owed by Operator, and (z) interest at the rate of six percent (6%) per annum accrued on the amounts set forth in clauses (x)
 4 and (y) if not paid when due and shall begin to accrue interest upon the first day after any amount is not paid when due and shall
 5 continue to accrue until such amount is paid in full. Upon an Event of Default, Non-Operators shall have the additional right to notify
 6 the purchaser or purchasers of Operator's Oil and Gas production related to the Mortgaged Property and collect such Operator
 7 Indebtedness out of the proceeds from the sale of Operator's share of Oil and Gas production until the amount owed has been paid.
 8 Any purchaser of such production shall be entitled to rely on Non- Operators' statement concerning the amount of Operator
 9 Indebtedness owed by Operator and payment made to Non- Operators by any purchaser shall be binding and conclusive as between
 10 such purchaser and Operator. Notwithstanding anything to the contrary herein, the parties shall cooperate to ensure that royalties
 11 owed to third parties are timely paid.

12 (iv) **Security Interest in Favor of Non-Operators.** To further secure the complete and timely performance of and
 13 payment by Operator of the Operator Indebtedness now existing or hereafter arising, pursuant to this Operating Agreement,
 14 Operator hereby grants to Non- Operators a lien and continuing security interest in and to all of its right, title, interest, in and to the
 15 Collateral.

16 (v) **Priority; Successors.** Each party represents and warrants to the other parties that the liens and security interests
 17 granted by such party to the other parties under this Article shall be a first and prior lien and security interest. Each party hereby
 18 agrees to maintain the priority of such lien and security interest so long as this Operating Agreement remains in effect with respect
 19 to such Mortgaged Properties or Collateral. Any third party acquiring an interest in the Mortgaged Property or Collateral from any
 20 party, whether by assignment, merger, mortgage, operation of law, or otherwise, shall be deemed to have taken subject to the liens
 21 and security interests granted by such party hereunder as to all obligations attributable to such interest hereunder whether or not
 22 such obligations arise before or after such interest is acquired.

23 (vi) **Waiver.** If an Event of Default (defined below) occurs, and such Event of Default subjects such party (the
 24 "Defaulting Party") to foreclosure or execution proceedings pursuant to the provisions of this Operating Agreement, to the extent
 25 allowed by the applicable law where the Collateral or Mortgaged Property is located, such Defaulting Party waives any available
 26 right of redemption from and after the date of judgment, any required valuation or appraisement of the property covered by the lien
 27 and security interest created hereunder prior to sale, any available right to stay execution or to require a marshalling of assets, and
 28 any required bond in the event a receiver is appointed.

29 (vii) **Other Lien Rights.** Each party agrees that the other parties shall be entitled to utilize the provisions of oil and
 30 gas lien law or other lien law of any state in which the Mortgaged Property is located, or that is otherwise applicable, to enforce the
 31 rights and remedies of each party hereunder. Without limiting the generality of the foregoing, to the extent permitted by applicable
 32 law, each of the parties agrees that the Operator may invoke or utilize the mechanics' or materialmen's lien law of any state where
 33 the Mortgaged Property is located, or that is otherwise applicable, in order to secure the payment to the Operator of any sum due
 34 hereunder for services performed or materials supplied by the Operator.

35 (viii) **Foreclosure and Sale.** If an Event of Default shall occur and be continuing, to the extent provided by applicable
 36 law, the parties other than the Defaulting Party (the "Non-Defaulting Parties") shall have the right and option to proceed with
 37 foreclosure with respect to the Mortgaged Property by proceeding, in each case, with foreclosure and to sell all or any portion of the
 38 Mortgaged Property at one or more sales, as an entirety or in parcels, at such place or places in otherwise such manner and upon
 39 such notice as may be required by any applicable law, or, in the absence of any such requirement, as Non-Defaulting Parties may
 40 reasonably deem appropriate, and to make conveyance to the purchaser or purchasers. Where the Mortgaged Property is situated
 41 in more than one jurisdiction, notice as above provided shall be posted and filed in all such jurisdictions (if such notices are required
 42 by applicable law), and all such Mortgaged Property may be sold in any such jurisdiction and any such notice shall designate the
 43 jurisdiction where such Mortgaged Property is to be sold. Nothing contained in this Article shall be construed so as to limit in any
 44 way any rights to sell the Mortgaged Property or any portion thereof by private sale if and to the extent that such private sale is
 45 permitted under any applicable laws of the applicable jurisdiction or by public or private sale after entry of a judgment by any court
 46 of competent jurisdiction so ordering. Defaulting Party hereby irrevocably appoints the Non-Defaulting Parties, with full power of
 47 substitution, to each be Defaulting Party's attorney-in-fact and to act in the name and on behalf of Defaulting Party, at any time after
 48 the occurrence and during the continuance of an Event of Default, to execute and deliver any deeds, transfers, conveyances,
 49 assignments, assurances and notices which Defaulting Party ought to execute and deliver and do and perform any and all such acts
 50 and things which Defaulting Party ought to do and perform under the covenants herein contained and generally, to use the name of
 51 Defaulting Party in the exercise of all or any of the powers hereby conferred on the Non-Defaulting Parties.

52 (ix) **Other Rights.** If an Event of Default shall occur and be continuing, then (i) Non-Defaulting Parties shall be
 53 entitled to all of the rights, powers and remedies afforded a secured party by the Applicable UCC with reference to the Collateral
 54 and (ii) the Non-Defaulting Parties may proceed as to any Collateral in accordance with the rights and remedies granted under this
 55 Operating Agreement or applicable law in respect of the Collateral. Such rights, powers and remedies shall be cumulative and in
 56 addition to those granted to the Non-Defaulting Parties under any other provision of this Operating Agreement. Written notice
 57 mailed to Defaulting Party as provided herein at least ten (10) days prior to the date of public sale of any part of the Collateral which
 58 is personal property subject to the provisions of the Applicable UCC, or prior to the date after which private sale of any such part of
 59 the Collateral will be made, shall constitute reasonable notice.

60 (x) **Judicial Actions.** If any of the Non-Operators Indebtedness or Operator Indebtedness, as applicable, shall
 61 become due and payable and shall not be promptly paid, the Non-Defaulting Parties shall have the right and power to proceed by a
 62 suit or suits in equity or at law, whether for the specific performance of any covenant or agreement contained herein or in aid of the
 63 execution of any power granted herein, or for any foreclosure hereunder or for the sale of the Collateral under the judgment or decree
 64 of any court or courts of competent jurisdiction, or for the appointment of a receiver pending any foreclosure hereunder or the sale
 65 of the Collateral under the order of a court or courts of competent jurisdiction or under executory or other legal process, or for the
 66 enforcement of any other appropriate legal or equitable remedy.

67 (xi) **Bar.** It is agreed that any sale pursuant to this Article shall be a perpetual bar against Defaulting Party and its
 68 successors, assigns, legal representatives, and all other persons claiming under the foregoing persons. It is further agreed that any
 69 holder or holders of the obligations of Defaulting Party under this Operating Agreement or any Non-Defaulting Party shall have the
 70 right to become the purchaser or purchasers at any sale of the Mortgaged Properties or Collateral pursuant to this Article if such
 71 Party is the highest bidder or bidders, in which event the bid or bids may be credited upon the Non-Operator Indebtedness or
 72 Operator Indebtedness, as applicable.

1 WHICH MAY BE OUTSTANDING AT ANY TIME UNDER THIS MORTGAGE, EXCLUSIVE OF INTEREST THEREON, IS
2 \$500,000,000. THIS OPEN END MORTGAGE ALSO SECURES OTHER AMOUNTS PROVIDED FOR HEREIN AND AT LAW.
3 IN ADDITION TO ANY OTHER DEBT OR OBLIGATION, THIS INSTRUMENT SHALL SECURE UNPAID BALANCES OF
4 ADVANCES MADE, PLUS ACCRUED INTEREST ON (IF ANY), WITH RESPECT TO THE MORTGAGED PREMISES, FOR
5 THE PAYMENT OF TAXES, ASSESSMENTS, INSURANCE PREMIUMS, OR COSTS INCURRED FOR THE PROTECTION
6 OF THE MORTGAGED PREMISES, IT BEING INTENDED TO ACKNOWLEDGE, AFFIRM AND COMPLY WITH THE
7 PROVISIONS OF OHIO REVISED CODE SECTION 5301.233.

9 7. **Release of the Mortgaged Property and Collateral.** Upon the termination of this Operating Agreement pursuant to Article XIII,
10 the parties shall promptly execute and deliver to the other party all releases, re-conveyances or other documents reasonably necessary
11 or desirable for the release of the liens created hereby on such portion of the Mortgaged Property.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

1 IN WITNESS WHEREOF, this agreement shall be effective as of the _____ day of _____,

2 20

3 **Eclipse Resources I, LP**, who has prepared and circulated this form for execution, represents and warrants
4 that the form was printed from and, with the exception(s) listed below, is identical to the AAPL Form 610-1989 Model Form
5 Operating Agreement, as published in computerized form by Forms On-A-Disk, Inc. No changes, alterations, or
6 modifications, other than those made by strikethrough and/or insertion and that are clearly recognizable as changes. ~~in~~
7 ~~Articles~~ ~~have been made to the form~~. Notwithstanding the foregoing statement, the undersigned acknowledge that they
8 have reviewed the agreement in its entirety and agree to be bound by all the terms and conditions contained herein.

9

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11

12 **OPERATOR**

13

14 **ATTEST OR WITNESS**

15

16 **Eclipse Resources I, LP**
17 A Delaware limited partnership

18

19 _____ By: Marty L. Byrd

20

21

22 Title: Vice President, Land
23 Address: 2121 Old Gatesburg, Suite 110, State College, PA 16803

24

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26 **NON-OPERATORS**

27

28 **ATTEST OR WITNESS**

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30 **Eclipse Resources – Ohio, LLC**
31 A Delaware limited liability company

32

33 _____ By: Marty L. Byrd

34

35

36 Title: Vice President, Land
37 Address: 2121 Old Gatesburg, Suite 110, State College, PA 16803

38

39 **ATTEST OR WITNESS**

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43 _____ By: _____

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46 _____ Title: _____
47 Address: _____

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ACKNOWLEDGMENT

COMMONWEALTH OF PENNSYLVANIA)
) §
COUNTY OF CENTRE)

On this, the ____ day of _____, 20____, before me _____, the undersigned officer, personally appeared Marty L. Byrd, who acknowledged himself to be the Vice President, Land of Eclipse Resources I, LP a Delaware limited partnership, and that he as such Vice President, Land, being authorized to do so, executed the foregoing instrument for the purpose therein contained by signing the name of the limited liability company by himself as Vice President, Land.

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

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

COMMONWEALTH OF PENNSYLVANIA)
) §
COUNTY OF CENTRE)

On this, the ____ day of _____, 20____, before me _____, the undersigned officer, personally appeared Marty L. Byrd, who acknowledged himself to be the Vice President, Land of Eclipse Resources – Ohio, LLC a Delaware limited liability company, and that he as such Vice President, Land, being authorized to do so, executed the foregoing instrument for the purpose therein contained by signing the name of the limited liability company by himself as Vice President, Land.

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

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

STATE OF TEXAS)
) §
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 the 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.

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

This document prepared by:
Eclipse Resources I, LP
2121 Old Gatesburg Road, St. 110
State College, PA 16803

EXHIBIT "A"

1. Description of lands subject to this Agreement:

Those certain leases and/or interests located within the contract area as further described on Exhibit "A-2" (lease listing) and as shown on the plat of the proposed Crawford B Unit depicted on the attached Exhibit "A-1" hereof

2. Restrictions, if any, as to depths, formations or substances:

Limited to the 50 feet above the top of the Utica Shale formation to 50 feet below the top of the Trenton formation.

3. Working Interest Owners addresses for notice purposes:

Eclipse Resources I, LP
2121 Old Gatesburg Road, Suite 110
State College, PA 16803
Attention: Marty L. Byrd, Senior Vice President, Land

Gulfport Energy Corporation
3001 Quail Springs Parkway
Oklahoma City, Oklahoma, 73134
Attention: Zac McCoy

4. Interest of parties to this agreement:

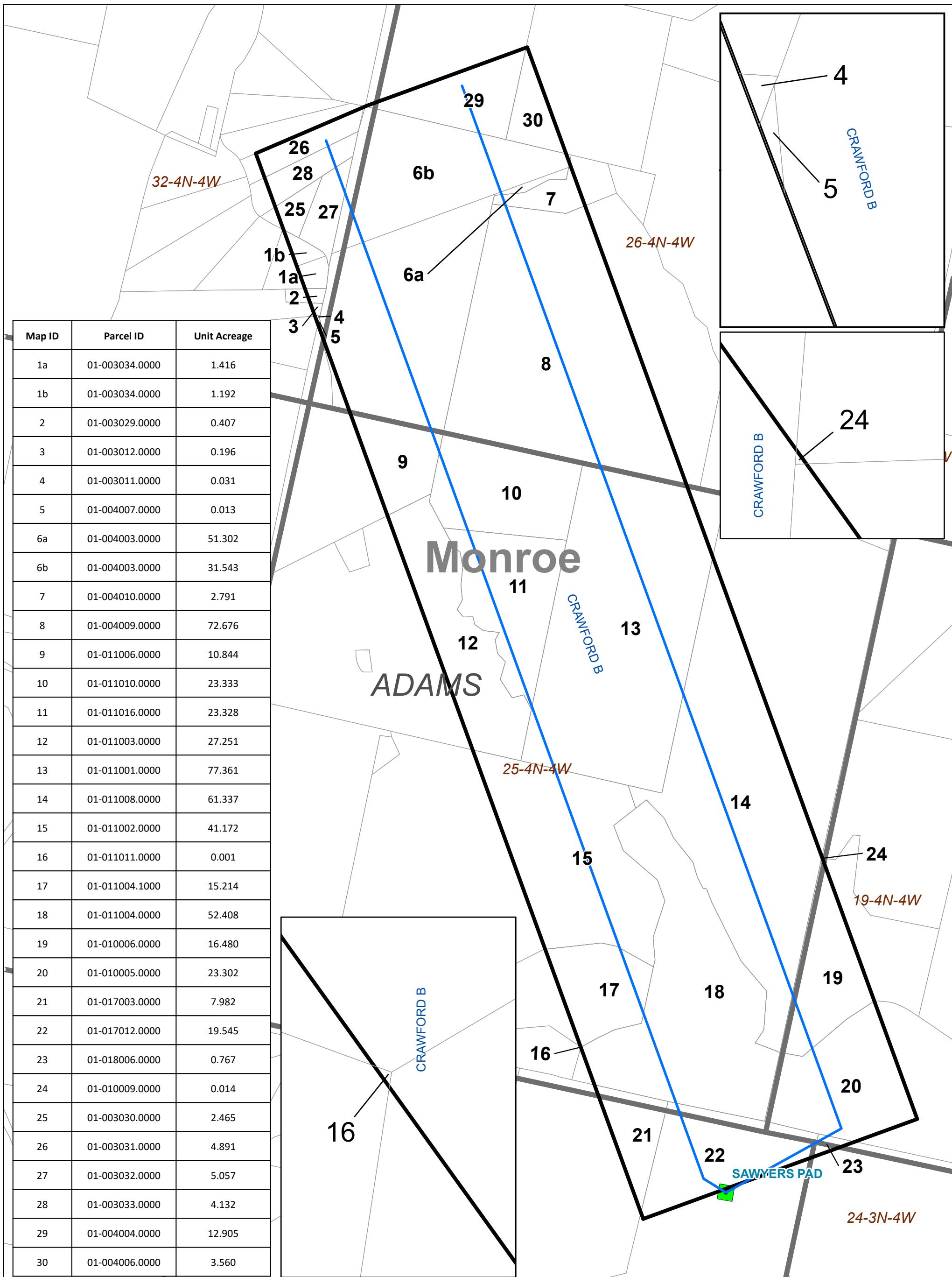
Party	Unit Interest Percentage	Unit Acreage
Eclipse Resources I, LP	81.10256%	482.492
Gulfport Energy Corporation	2.75595%	16.396
Unleased Interests	16.14149%	16.14149
Total	100.00%	397.145

5. Oil and Gas Leases and/or Oil and Gas Interests subject to this agreement:

The oil and gas leases or oil and gas interests, or portions thereof, included in Contract Area and described on Exhibit A-2 attached hereto.

*It is understood by the Parties that the working interests listed above are estimates and are subject to change based upon the verification of title, 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.

End of Exhibit "A"



Eclipse Resources

Exhibit A-1
Crawford B Unit
Unit Size: 594.916 Acres Monroe
County Adams Township

Date: 6/3/2020 Author: GIS Department
Coordinate System:
NAD 1927 StatePlane Ohio South FIPS 3402

0 500 1,000 1,500 Feet

LEGEND

- Pad Site
- Lateral
- Crawford B Parcels
- Unit Boundary



Revised 6/4/2020

Exhibit A-2 All Mineral Owners in the proposed Crawford B Unit.																		
Tract Number	Mineral Owner	Leased Yes or No	Surface Acres in Unit	Decimal Interest in Tract	Net Acres in Unit	Tract Participation in Unit	Tax Map Parcel ID	Township	County	Committed Working Interest Percentage	Applicant Working Interest Percentage	Gulfport Working Interest Percentage	Address	City	State	Zip	Update	
1a	Rady Moore	Yes	1.416	0.500000	0.708	0.0011901	01-003034.0000	Adams	Monroe	1.000000	1.000000	0.000000	48100 Center Ridge Road	Beallsville	OH	43716		
	The William H. Carpenter Irrevocable Oil and Gas Trust dated June 15, 2018	Yes		0.125000	0.177	0.0002975	01-003034.0000	Adams	Monroe	1.000000	1.000000	0.000000	570 Susan Avenue	Westerville	OH	43081		
	The Nancy S. Schweiger Irrevocable Oil and Gas Trust dated June 15, 2018	Yes		0.125000	0.177	0.0002975	01-003034.0000	Adams	Monroe	1.000000	1.000000	0.000000	5111 Springville Court	Westerville	OH	43081		
	Beverly Jean Staudt	Yes		0.0555556	0.079	0.0001322	01-003034.0000	Adams	Monroe	0.000000	0.000000	1.000000	2795 St. Andrew Square, Apt. 1715	Allison Park	PA	15101		
	Mary A. Staudt aka Mary A. Cook	Yes		0.0277778	0.039	0.0000661	01-003034.0000	Adams	Monroe	1.000000	1.000000	0.000000	128 Boothbay Harbor	Bradford Woods	PA	15015	Unleased to Leased	
	Janet Ryan and Edward P. Ryan	Yes		0.125000	0.177	0.0002975	01-003034.0000	Adams	Monroe	0.000000	0.000000	1.000000	2604 Robins Bow Road	Bloomington	IN	47401		
	Robert M. Ryan	Yes		0.0208333	0.029	0.0000496	01-003034.0000	Adams	Monroe	0.000000	0.000000	1.000000	7910 Sunnyvale Lane	Charlotte	NC	28210		
	Edward T. Ryan	Yes		0.0208333	0.029	0.0000496	01-003034.0000	Adams	Monroe	0.000000	0.000000	1.000000	488 Town Hill Road	Nashville	TN	47448		
	Rady Moore	Yes		0.500000	0.596	0.0010018	01-003034.0000	Adams	Monroe	0.000000	0.000000	1.000000	48100 Center Ridge Road	Beallsville	OH	43716		
	The William H. Carpenter Irrevocable Oil and Gas Trust dated June 15, 2018	Yes		0.125000	0.149	0.0002505	01-003034.0000	Adams	Monroe	0.000000	0.000000	1.000000	570 Susan Avenue	Westerville	OH	43081		
1b	The Nancy S. Schweiger Irrevocable Oil and Gas Trust dated June 15, 2018	Yes	1.192	0.125000	0.149	0.0002505	01-003034.0000	Adams	Monroe	0.000000	0.000000	1.000000	5111 Springville Court	Westerville	OH	43081		
	Beverly Jean Staudt	Yes		0.0555556	0.066	0.0001113	01-003034.0000	Adams	Monroe	0.000000	0.000000	1.000000	2795 St. Andrew Square, Apt. 1715	Allison Park	PA	15101		
	Mary A. Staudt aka Mary A. Cook	Yes		0.0277778	0.033	0.0000557	01-003034.0000	Adams	Monroe	1.000000	1.000000	0.000000	128 Boothbay Harbor	Bradford Woods	PA	15015	Unleased to Leased	
	Janet Ryan and Edward P. Ryan	Yes		0.125000	0.149	0.0002505	01-003034.0000	Adams	Monroe	0.000000	0.000000	1.000000	2604 Robins Bow Road	Bloomington	IN	47401		
	Robert M. Ryan	Yes		0.0208333	0.025	0.0000417	01-003034.0000	Adams	Monroe	0.000000	0.000000	1.000000	7910 Sunnyvale Lane	Charlotte	NC	28210		
	Edward T. Ryan	Yes		0.0208333	0.025	0.0000417	01-003034.0000	Adams	Monroe	0.000000	0.000000	1.000000	488 Town Hill Road	Nashville	TN	47448		
	Stacy Rena Moore	Yes		0.500000	0.204	0.0003421	01-003029.0000	Adams	Monroe	1.000000	1.000000	0.000000	48125 Center Ridge Road	Beallsville	OH	43716		
	The William H. Carpenter Irrevocable Oil and Gas Trust dated June 15, 2018	Yes		0.125000	0.051	0.0000855	01-003029.0000	Adams	Monroe	0.000000	0.000000	1.000000	570 Susan Avenue	Westerville	OH	43081		
	The Nancy S. Schweiger Irrevocable Oil and Gas Trust dated June 15, 2018	Yes		0.125000	0.051	0.0000855	01-003029.0000	Adams	Monroe	0.000000	0.000000	1.000000	5111 Springville Court	Westerville	OH	43081		
	Beverly Jean Staudt	Yes		0.0555556	0.023	0.0000380	01-003029.0000	Adams	Monroe	1.000000	1.000000	0.000000	2795 St. Andrew Square, Apt. 1715	Allison Park	PA	15101	Unleased to Leased	
2	Mary A. Staudt aka Mary A. Cook	Yes	0.407	0.0277778	0.011	0.0000190	01-003029.0000	Adams	Monroe	1.000000	1.000000	0.000000	128 Boothbay Harbor	Bradford Woods	PA	15015	Unleased to Leased	
	Janet Ryan and Edward P. Ryan	Yes		0.125000	0.051	0.0000855	01-003029.0000	Adams	Monroe	1.000000	1.000000	0.000000	2604 Robins Bow Road	Bloomington	IN	47401	Unleased to Leased	
	Robert M. Ryan	No		0.0208333	0.008	0.0000143	01-003029.0000	Adams	Monroe	0.000000	0.000000	0.000000	7910 Sunnyvale Lane	Charlotte	NC	28210		
	Edward T. Ryan	No		0.0208333	0.008	0.0000143	01-003029.0000	Adams	Monroe	0.000000	0.000000	0.000000	488 Town Hill Road	Nashville	TN	47448		
	Rady Moore	Yes		0.500000	0.098	0.0001647	01-003012.0000	Adams	Monroe	1.000000	1.000000	0.000000	48100 Center Ridge Road	Beallsville	OH	43716		
	The William H. Carpenter Irrevocable Oil and Gas Trust dated June 15, 2018	Yes		0.125000	0.025	0.0000412	01-003012.0000	Adams	Monroe	1.000000	1.000000	0.000000	570 Susan Avenue	Westerville	OH	43081		
	The Nancy S. Schweiger Irrevocable Oil and Gas Trust dated June 15, 2018	Yes		0.125000	0.025	0.0000412	01-003012.0000	Adams	Monroe	1.000000	1.000000	0.000000	5111 Springville Court	Westerville	OH	43081		
	Beverly Jean Staudt	Yes		0.0555556	0.011	0.0000183	01-003012.0000	Adams	Monroe	1.000000	1.000000	0.000000	2795 St. Andrew Square, Apt. 1715	Allison Park	PA	15101		
	Mary A. Staudt aka Mary A. Cook	Yes		0.0277778	0.005	0.0000092	01-003012.0000	Adams	Monroe	1.000000	1.000000	0.000000	128 Boothbay Harbor	Bradford Woods	PA	15015	Unleased to Leased	
	Janet Ryan and Edward P. Ryan	Yes		0.125000	0.025	0.0000412	01-003012.0000	Adams	Monroe	1.000000	1.000000	0.000000	2604 Robins Bow Road	Bloomington	IN	47401		
3	Robert M. Ryan	Yes	0.196	0.0208333	0.004	0.0000699	01-003012.0000	Adams	Monroe	1.000000	1.000000	0.000000	7910 Sunnyvale Lane	Charlotte	NC	28210		
	Edward T. Ryan	Yes		0.0208333	0.004	0.0000699	01-003012.0000	Adams	Monroe	1.000000	1.000000	0.000000	488 Town Hill Road	Nashville	TN	47448		
	Rady Moore	Yes		0.500000	0.016	0.0000261	01-003011.0000	Adams	Monroe	1.000000	1.000000	0.000000	48100 Center Ridge Road	Beallsville	OH	43716		
	The William H. Carpenter Irrevocable Oil and Gas Trust dated June 15, 2018	Yes		0.125000	0.004	0.000065	01-003011.0000	Adams	Monroe	1.000000	1.000000	0.000000	570 Susan Avenue	Westerville	OH	43081		
	The Nancy S. Schweiger Irrevocable Oil and Gas Trust dated June 15, 2018	Yes		0.125000	0.004	0.000065	01-003011.0000	Adams	Monroe	1.000000	1.000000	0.000000	5111 Springville Court	Westerville	OH	43081		
	Beverly Jean Staudt	Yes		0.0555556	0.002	0.0000029	01-003011.0000	Adams	Monroe	1.000000	1.000000	0.000000	2795 St. Andrew Square, Apt. 1715	Allison Park	PA	15101		
	Mary A. Staudt aka Mary A. Cook	Yes		0.0277778	0.001	0.0000014	01-003011.0000	Adams	Monroe	1.000000	1.000000	0.000000	128 Boothbay Harbor	Bradford Woods	PA	15015	Unleased to Leased	
	Janet Ryan and Edward P. Ryan	Yes		0.125000	0.004	0.0000065	01-003011.0000	Adams	Monroe	1.000000	1.000000	0.000000	2604 Robins Bow Road	Bloomington	IN	47401	Unleased to Leased	
	Robert M. Ryan	No		0.0208333	0.001	0.0000011	01-003011.0000	Adams	Monroe	0.000000	0.000000	0.000000	7910 Sunnyvale Lane	Charlotte	NC	28210		
	Edward T. Ryan	No		0.0208333	0.001	0.0000011	01-003011.0000	Adams	Monroe	0.000000	0.000000	0.000000	488 Town Hill Road	Nashville	TN	47448		
4	Rady Moore	Yes	0.031	0.500000	0.004	0.000065	01-003011.0000	Adams	Monroe	1.000000	1.000000	0.000000	570 Susan Avenue	Westerville	OH	43081		
	The William H. Carpenter Irrevocable Oil and Gas Trust dated June 15, 2018	Yes		0.125000	0.004	0.000065	01-003011.0000	Adams	Monroe	1.000000	1.000000	0.000000	5111 Springville Court	Westerville	OH	43081		
	Beverly Jean Staudt	Yes		0.0555556	0.002	0.0000029	01-003011.0000	Adams	Monroe	1.000000	1.000000	0.000000	2795 St. Andrew Square, Apt. 1715	Allison Park	PA	15101	Unleased to Leased	
	Mary A. Staudt aka Mary A. Cook	Yes		0.0277778	0.001	0.0000014	01-003011.0000	Adams	Monroe	1.000000	1.000000	0.000000	128 Boothbay Harbor	Bradford Woods	PA	15015	Unleased to Leased	
	Janet Ryan and Edward P. Ryan	Yes		0.125000	0.004	0.0000065	01-003011.0000	Adams	Monroe	1.000000	1.000000	0.000000	2604 Robins Bow Road	Bloomington	IN	47401	Unleased to Leased	
	Robert M. Ryan	No		0.0208333	0.001	0.0000011	01-003011.0000	Adams	Monroe	0.000000	0.000000	0.000000	7910 Sunnyvale Lane	Charlotte	NC	28210		
	Edward T. Ryan	No		0.0208333	0.001	0.0000011	01-003011.0000	Adams	Monroe	0.000000	0.000000	0.000000	488 Town Hill Road	Nashville	TN	47448		
	Andrew Hawk and Stephanie Hawk	Yes		0.013	1.000000	0.013	0.0000219	01-004007.0000	Adams	Monroe	1.000000	1.000000	0.000000	6611 Hayes Road	Andover	OH	44003	
	The Mary Ann Crawford Living Trust dated Jan. 25, 2011	Yes		51.302	1.000000	51.302	0.0862340	01-004003.0000	Adams	Monroe	1.0000							

7	Mildred Conger	Yes	0.0555556	0.155	0.0002606	01-004010.0000	Adams	Monroe	0.0000000	0.0000000	1.0000000	125 David Canary Drive, Room 203	Massillon	OH	44647	
	Patsy Stevens	Yes	0.0416667	0.116	0.0001955	01-004010.0000	Adams	Monroe	0.0000000	0.0000000	1.0000000	637 East Carters Valley Rd.	Gate City	VA	24251	
	The Estate of Donna M. Stephens	Yes	0.0416667	0.116	0.0001955	01-004010.0000	Adams	Monroe	0.0000000	0.0000000	1.0000000	1241 Mill Park Drive	Marysville	OH	43030	
	Terry E. Long and Erleen K. Long	Yes	0.0833333	0.233	0.0003910	01-004010.0000	Adams	Monroe	0.0000000	0.0000000	1.0000000	1028 North Chestnut St.	Barnsville	OH	43713	
	C&E Wilson Holdings, LLC	Yes	0.0833333	0.233	0.0003910	01-004010.0000	Adams	Monroe	0.0000000	0.0000000	1.0000000	348 Thomas Lane	London	OH	43140	
	The Estate of Sandra Kay Evans	No	0.0555556	0.155	0.0002606	01-004010.0000	Adams	Monroe	0.0000000	0.0000000	0.0000000	PO Box 261	Millwood	WV	25262	
8	John C. Lenz	Yes	0.3333333	24.225	0.0407206	01-004009.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	2900 Massillon Road	Akron	OH	44312	
	Thomas R. Vinez	Yes	0.3333333	24.225	0.0407206	01-004009.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	13707 Nutmeg Circle NW	Magadore	OH	44260	
	Pepprent Properties, LLC	Yes	0.3333334	24.225	0.0407206	01-004009.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	825 Barcelona Drive	Kissimmee	FL	34759	
9	The Padovan Family Trust of September 13, 2010	Yes	1.0000000	10.844	0.0182278	01-011006.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	3670 LaMesa Drive	Akron	OH	44333	
	LL&B Headwater II, LP	No	0.5000000	11.667	0.0196103	01-011010.0000	Adams	Monroe	0.0000000	0.0000000	0.0000000	510 Hearn Street	Austin	TX	78703	
	Marvin N. Stephens and Dorothy B. Stephens	Yes	0.0416667	0.972	0.0016342	01-011010.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	71220 Hendrysburg Freeport Road	Piedmont	OH	43983	
	Judith W. Stephens and Curtis L. Stephens	Yes	0.0416667	0.972	0.0016342	01-011010.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	304 High Street	Woodsfield	OH	43793	
	Terry E. Long and Erleen K. Long	Yes	0.0833333	1.944	0.0032684	01-011010.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	1028 North Chestnut St.	Barnsville	OH	43713	
	Patsy A. Stevens	Yes	0.0416667	0.972	0.0016342	01-011010.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	637 East Carters Valley Rd.	Gas City	VA	24251	
10	The Estate of Sandra Kay Evans	Yes	0.0555556	1.296	0.0021789	01-011010.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	PO Box 261	Millwood	WV	25262	
	The Estate of Donna M. Stephens	Yes	0.0416667	0.972	0.0016342	01-011010.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	1241 Mill Park Drive	Marysville	OH	43030	
	C&E Wilson Holdings, LLC	Yes	0.0833333	1.944	0.0032684	01-011010.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	348 Thomas Lane	London	OH	43140	Unleased to Leased
	Mildred Conger	No	0.0555556	1.296	0.0021789	01-011010.0000	Adams	Monroe	0.0000000	0.0000000	0.0000000	125 David Canary Drive, Room 203	Massillon	OH	44647	
	Charles Evans	No	0.0277778	0.648	0.0010895	01-011010.0000	Adams	Monroe	0.0000000	0.0000000	0.0000000	222 Berger St. S.	East Canton	OH	44730	
	David Evans and Deborah Evans	No	0.0277778	0.648	0.0010895	01-011010.0000	Adams	Monroe	0.0000000	0.0000000	0.0000000	11372 Ravenna Ave.	Louisville	OH	44641	
	Hydrocarbon Holdings, LTD	Yes	0.5000000	11.664	0.0196061	01-011016.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	9302 South 83rd Court	Hickory Hills	IL	60457	
	Marvin N. Stephens and Dorothy B. Stephens	Yes	0.0416667	0.972	0.0016338	01-011016.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	71220 Hendrysburg Freeport Road	Piedmont	OH	43983	
	Judith W. Stephens and Curtis L. Stephens	Yes	0.0416667	0.972	0.0016338	01-011016.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	304 High Street	Woodsfield	OH	43793	
	Terry E. Long and Erleen K. Long	Yes	0.0833333	1.944	0.0032677	01-011016.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	1028 North Chestnut St.	Barnsville	OH	43713	
	Patsy A. Stevens	Yes	0.0416667	0.972	0.0016338	01-011016.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	637 East Carters Valley Rd.	Gas City	VA	24251	
11	Sandra Kay Evans	Yes	0.0555556	1.296	0.0021785	01-011016.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	PO Box 261	Millwood	WV	25262	
	The Estate of Donna M. Stephens	Yes	0.0416667	0.972	0.0016338	01-011016.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	1241 Mill Park Drive	Marysville	OH	43030	
	C&E Wilson Holdings, LLC	Yes	0.0833333	1.944	0.0032677	01-011016.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	348 Thomas Lane	London	OH	43140	Unleased to Leased
	Mildred Conger	No	0.0555556	1.296	0.0021785	01-011016.0000	Adams	Monroe	0.0000000	0.0000000	0.0000000	125 David Canary Drive, Room 203	Massillon	OH	44647	
	Charles Evans	No	0.0277778	0.648	0.0010892	01-011016.0000	Adams	Monroe	0.0000000	0.0000000	0.0000000	222 Berger St. S.	East Canton	OH	44730	
	David Evans and Deborah Evans	No	0.0277778	0.648	0.0010892	01-011016.0000	Adams	Monroe	0.0000000	0.0000000	0.0000000	11372 Ravenna Ave.	Louisville	OH	44641	
12	The Pandora J. Neuhart Revocable Living Trust	Yes	0.2000000	5.450	0.0091613	01-011003.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	40189 Gun Club Road	Woodsfield	OH	43793	
	Bonnie Heil	Yes	0.2000000	5.450	0.0091613	01-011003.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	124 Reservoir Road	Saint Clairsville	OH	43950	
	Strategic Energy Income Fund III LP	Yes	0.0900000	2.453	0.0041226	01-011003.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	2350 North Forest Rd.	Getzville	NY	14068	
	Strategic Energy Income Fund IV LP	Yes	0.1100000	2.998	0.0050387	01-011003.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	2350 North Forest Rd.	Getzville	NY	14068	
	Nelson E. Kindall	Yes	0.2000000	5.450	0.0091613	01-011003.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	6820 Potts Road	Riverview	FL	33569	
	Norris Whittaker Jr.	Yes	0.2000000	5.450	0.0091613	01-011003.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	34631 Harper Ridge Road	Woodsfield	OH	43793	
	Katherine Haselberger	Yes	0.5000000	38.681	0.0650184	01-011001.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	203 Maple Avenue	Woodsfield	OH	43793	
	Marvin N. Stephens and Dorothy B. Stephens	Yes	0.0416667	3.223	0.0054182	01-011001.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	71220 Hendrysburg Freeport Road	Piedmont	OH	43983	
	Judith W. Stephens and Curtis L. Stephens	Yes	0.0416667	3.223	0.0054182	01-011001.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	304 High Street	Woodsfield	OH	43793	
	Terry E. Long and Erleen K. Long	Yes	0.0833333	6.447	0.0108364	01-011001.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	1028 North Chestnut St.	Barnsville	OH	43713	
	Patsy A. Stevens	Yes	0.0416667	3.223	0.0054182	01-011001.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	637 East Carters Valley Rd.	Gas City	VA	24251	
13	Sandra Kay Evans	Yes	0.0555556	4.298	0.0072243	01-011001.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	PO Box 261	Millwood	WV	25262	
	The Estate of Donna M. Stephens	Yes	0.0416667	3.223	0.0054182	01-011001.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	1241 Mill Park Drive	Marysville	OH	43030	
	C&E Wilson Holdings, LLC	Yes	0.0833333	6.447	0.0108364	01-011001.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	348 Thomas Lane	London	OH	43140	Unleased to Leased
	Mildred Conger	No	0.0555556	4.298	0.0072243	01-011001.0000	Adams	Monroe	0.0000000	0.0000000	0.0000000	125 David Canary Drive, Room 203	Massillon	OH	44647	
	Charles Evans	No	0.0277778	2.149	0.0036121	01-011001.0000	Adams	Monroe	0.0000000	0.0000000	0.0000000	222 Berger St. S.	East Canton	OH	44730	
	David Evans and Deborah Evans	No	0.0277778	2.149	0.0036121	01-011001.0000	Adams	Monroe	0.0000000	0.0000000	0.0000000	11372 Ravenna Ave.	Louisville	OH	44641	
14	Rothenbuhler Oil & Gas, LLC	Yes	0.1000000	61.337	0.1031020	01-011008.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	46094 Sunfish Creek Road	Beallsville	OH	43716	
	Philip P.abin and Christina M. Pabin	Yes	0.1250000	5.147	0.0086508	01-011002.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	41158 Nicki Lynn Drive	Belmont	OH	43718	
	Gerald Cramer and Mary Ella Cramer	Yes	0.2812500	11.580	0.0194643	01-011002.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	289 Hampton Road	Lexington	OH	44904	
	Penny Hersman and Kim Hersman	Yes	0.1250000	5.147	0.0086508	01-011002.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	95 Mohican Trail	Mansfield	OH	44904	
	Larry Kearns and Korrine Kearns	Yes	0.0625000	2.573	0.0043254	01-011002.0000	Adams	Monroe	1.0000000	1.0000000	0.0000000	6622 Township Road 29	Mansfield	OH	44904	
	Lisa Timmons and Randal Timmons	Yes	0.0625000	2.573	0.0043254	01-011002.0000	Adams	Monroe								

20	Ronald Rothenbuhler	Yes	23.302	0.3333333	7.767	0.0130562	01-010005.0000	Adams	Monroe	1.000000	1.000000	0.000000	49975 State Route 78	Clarington	OH	43915
	Rothenbuhler Oil & Gas, LLC	Yes		0.3333333	7.767	0.0130562	01-010005.0000	Adams	Monroe	1.000000	1.000000	0.000000	46094 Sunfish Creek Road	Beallsville	OH	43716
	Constance Smith	Yes		0.3333334	7.767	0.0130562	01-010005.0000	Adams	Monroe	1.000000	1.000000	0.000000	45684 State Route 145	Lewisville	OH	43754
21	Bounty Minerals LLC	Yes	7.982	1.000000	7.982	0.0134170	01-017003.0000	Adams	Monroe	1.000000	1.000000	0.000000	777 Main Street, Suite 3400	Fort Worth	TX	76102
22	Old Old Farm LLC	Yes	19.545	1.0000000	19.545	0.0328534	01-017012.0000	Adams	Monroe	1.000000	1.000000	0.000000	45850 Pfalzgraf Road	Woodsfield	OH	43793
23	Ronald Rothenbuhler	Yes	0.767	0.3333333	0.256	0.0004298	01-018006.0000	Adams	Monroe	1.000000	1.000000	0.000000	49975 State Route 78	Clarington	OH	43915
	Rothenbuhler Oil & Gas, LLC	Yes		0.3333333	0.256	0.0004298	01-018006.0000	Adams	Monroe	1.000000	1.000000	0.000000	46094 Sunfish Creek Road	Beallsville	OH	43716
	Constance Smith	Yes		0.3333334	0.256	0.0004298	01-018006.0000	Adams	Monroe	1.000000	1.000000	0.000000	45684 State Route 145	Lewisville	OH	43754
24	Pfalzgraf Land Holdings, LLC	Yes	0.014	0.500000	0.007	0.0000118	01-010009.0000	Adams	Monroe	1.000000	1.000000	0.000000	33067 Firehouse Road	Lewisville	OH	43754
	Dennis J. Novak and Janet A. Novak	Yes		0.0416667	0.001	0.0000010	01-010009.0000	Adams	Monroe	1.000000	1.000000	0.000000	1897 Royalwood Road	Cleveland	OH	44147
	Sandra L. Gazdag	Yes		0.0416667	0.001	0.0000010	01-010009.0000	Adams	Monroe	1.000000	1.000000	0.000000	400 West Aurora Road, Apt. 61	Northfield	OH	44067
	James A. Steele	Yes		0.0208333	0.000	0.0000005	01-010009.0000	Adams	Monroe	1.000000	1.000000	0.000000	9376 Brandywine Road	Northfield	OH	44067
	Karen Kuhn and Richard Kuhn	Yes		0.0208333	0.000	0.0000005	01-010009.0000	Adams	Monroe	1.000000	1.000000	0.000000	2860 Northland Street	Cuyahoga Falls	OH	44221
	Cyril H. Steele and Louise Steele	Yes		0.0208333	0.000	0.0000005	01-010009.0000	Adams	Monroe	1.000000	1.000000	0.000000	12652 SW Lexington Place	Arcadia	FL	34269
	Sylvia Maxwell and Raymond Maxwell	Yes		0.0208333	0.000	0.0000005	01-010009.0000	Adams	Monroe	1.000000	1.000000	0.000000	6401 N. Delaware	Wichita	KS	67204
	Carol J. Bible and Dennis E. Bible	Yes		0.0208333	0.000	0.0000005	01-010009.0000	Adams	Monroe	1.000000	1.000000	0.000000	2419 Potter Downs Drive	Waxhaw	NC	28173
	Stacey Eggleton and Rodney Wilson	Yes		0.0069444	0.000	0.0000002	01-010009.0000	Adams	Monroe	1.000000	1.000000	0.000000	10310 Oak Acres Drive	Houston	TX	77065
	Nicole J. Eggleton	Yes		0.0069444	0.000	0.0000002	01-010009.0000	Adams	Monroe	1.000000	1.000000	0.000000	10310 Oak Acres Drive	Houston	TX	77065
	Kimberly McQueen and Anthony McQueen	Yes		0.0069444	0.000	0.0000002	01-010009.0000	Adams	Monroe	1.000000	1.000000	0.000000	5614 Bear Paw Circle	Katy	TX	77449
	Jack H. Steele and Patricia J. Steele	Yes		0.0208333	0.000	0.0000005	01-010009.0000	Adams	Monroe	1.000000	1.000000	0.000000	154 Hunters Woods Drive	Trinity	NC	27370
	Robert A. Steele and Janet L. Steele	Yes		0.0208333	0.000	0.0000005	01-010009.0000	Adams	Monroe	1.000000	1.000000	0.000000	2185 20th St. SW	Akron	OH	44314
	Elizabeth A. Frame (a/k/a Betty Frame) and Aden J. Frame (a/k/a A.J. Frame)	Yes		0.0156250	0.000	0.0000004	01-010009.0000	Adams	Monroe	1.000000	1.000000	0.000000	12595 Conquer Hill	Byersville	OH	43723
	Margaret Helen Paratore and Charles Paratore	Yes		0.0625000	0.001	0.0000015	01-010009.0000	Adams	Monroe	1.000000	1.000000	0.000000	920 Pueblo Street	Gilroy	CA	95020
	Laurel King	Yes		0.0156250	0.000	0.0000004	01-010009.0000	Adams	Monroe	1.000000	1.000000	0.000000	1082 Waldo Way	Twinsburg	OH	44087
	Kathleen Gaivin and Robert Gaivin	Yes		0.0156250	0.000	0.0000004	01-010009.0000	Adams	Monroe	1.000000	1.000000	0.000000	8157 Olde Eight Road	Northfield	OH	44067
	Berlene S. Roe and Kevin Roe	Yes		0.0156250	0.000	0.0000004	01-010009.0000	Adams	Monroe	1.000000	1.000000	0.000000	60001 Frankfort Road	Salesville	OH	43778
	Cynthia Putke and Robert Putke	Yes		0.0156250	0.000	0.0000004	01-010009.0000	Adams	Monroe	1.000000	1.000000	0.000000	1230 Ruth Ave.	Cuyahoga Falls	OH	44221
	Brenda J. Reed and Wayne Reed	Yes		0.0156250	0.000	0.0000004	01-010009.0000	Adams	Monroe	1.000000	1.000000	0.000000	8725 Donavan Road	Radnor	OH	43066
	Barbara Polsey and Dr. Steven Polsey	Yes		0.0156250	0.000	0.0000004	01-010009.0000	Adams	Monroe	1.000000	1.000000	0.000000	162 New Haven Drive	Urbana	OH	43078
	Patrick Steele	Yes		0.0156250	0.000	0.0000004	01-010009.0000	Adams	Monroe	1.000000	1.000000	0.000000	8497 County View	Broadview Heights	OH	44147
	The Estate of Donald Steele	Yes		0.0625000	0.001	0.0000015	01-010009.0000	Adams	Monroe	1.000000	1.000000	0.000000	3005 Conover NW	Massillon	OH	44646
25	Leanne Marie Rotert	Yes	2.465	0.6666666	1.643	0.0027623	01-003030.0000	Adams	Monroe	1.000000	1.000000	0.000000	8368 Dallas Drive	Mentor	OH	44060
	David J. Williams and Jeanine Williams	Yes		0.3333334	0.822	0.0013811	01-003030.0000	Adams	Monroe	1.000000	1.000000	0.000000	8239 Mulberry Road	Chesterland	OH	44026
26	Leanne Marie Rotert	Yes	4.891	0.6666666	3.261	0.0054809	01-003031.0000	Adams	Monroe	1.000000	1.000000	0.000000	8368 Dallas Drive	Mentor	OH	44060
	David J. Williams and Jeanine Williams	Yes		0.3333334	1.630	0.0027404	01-003031.0000	Adams	Monroe	1.000000	1.000000	0.000000	8239 Mulberry Road	Chesterland	OH	44026
27	Leanne Marie Rotert	Yes	5.057	0.6666666	3.371	0.0056669	01-003032.0000	Adams	Monroe	1.000000	1.000000	0.000000	8368 Dallas Drive	Mentor	OH	44060
	David J. Williams and Jeanine Williams	Yes		0.3333334	1.686	0.0028335	01-003032.0000	Adams	Monroe	1.000000	1.000000	0.000000	8239 Mulberry Road	Chesterland	OH	44026
28	Leanne Marie Rotert	Yes	4.132	0.6666666	2.755	0.0046303	01-003033.0000	Adams	Monroe	1.000000	1.000000	0.000000	8368 Dallas Drive	Mentor	OH	44060
	David J. Williams and Jeanine Williams	Yes		0.3333334	1.377	0.0023152	01-003033.0000	Adams	Monroe	1.000000	1.000000	0.000000	8239 Mulberry Road	Chesterland	OH	44026
29	Winkler Family Revocable Living Trust dated September 5, 2002	Yes	12,905	1,000000	12.905	0.0216921	01-004004.0000	Adams	Monroe	0.000000	0.000000	1.000000	210 McIlvaine Drive	Creston	OH	44217
30	Janet L. Greene	No	3.560	0.7500000	2.670	0.0044880	01-004006.0000	Adams	Monroe	0.000000	0.000000	0.000000	18981 NW 243 Rd	High Springs	FL	32643
	Beverly Jean Staudt	Yes		0.0555556	0.198	0.0003524	01-004006.0000	Adams	Monroe	0.000000	0.000000	1.000000	2795 St. Andrew Square, Apt. 1715	Allison Park	PA	15101
	Mary Cook aka Mary Staudt	Yes		0.0277778	0.099	0.0001662	01-004006.0000	Adams	Monroe	1.000000	1.000000	0.000000	128 Boothbay Harbor	Bradford Woods	PA	15015
	Janet Ryan and Edward P. Ryan	Yes		0.1250000	0.445	0.0007480	01-004006.0000	Adams	Monroe	0.000000	0.000000	1.000000	2604 Robins Bow Road	Bloomington	IN	47401
	Robert M. Ryan and Jeri Ryan	Yes		0.0208333	0.074	0.0001247	01-004006.0000	Adams	Monroe	0.000000	0.000000	1.000000	7910 Sunnyvale Lane	Charlotte	NC	28210
	Edward T. Ryan and Florine Ryan	Yes		0.0208333	0.074	0.0001247	01-004006.0000	Adams	Monroe	0.000000	0.000000	1.000000	488 Town Hill Road	Nashville	TN	47448
	Total Unit Acres:	594.916		1.0000000			Total:	0.8110256	0.8110256	0.0275595						
	Total Leased Acres:	498.888														

Exhibit A-3

All Unleased Mineral Owners in the proposed Crawford B Unit.

Tract Number	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
2	Robert M. Ryan	No	0.0208333	0.008	0.0000143	01-003029.0000	Nurseries	Adams	Monroe	7910 Sunnyvale Lane	Charlotte	NC	28210
2	Edward T. Ryan	No	0.0208333	0.008	0.0000143	01-003029.0000	Nurseries	Adams	Monroe	488 Town Hill Road	Nashville	TN	47448
4	Robert M. Ryan	No	0.0208333	0.001	0.0000011	01-003011.0000	Agricultural with Buildings	Adams	Monroe	7910 Sunnyvale Lane	Charlotte	NC	28210
4	Edward T. Ryan	No	0.0208333	0.001	0.0000011	01-003011.0000	Agricultural with Buildings	Adams	Monroe	488 Town Hill Road	Nashville	TN	47448
7	Judith W. Stephens and Curtis L. Stephens	No	0.0416667	0.116	0.0001955	01-004010.0000	Residential	Adams	Monroe	304 High Street	Woodsfield	OH	43793
7	The Estate of Sandra Kay Evans	No	0.0555556	0.155	0.0002606	01-004010.0000	Residential	Adams	Monroe	PO Box 261	Millwood	WV	25262
10	LL&B Headwater II, LP	No	0.5000000	11.667	0.0196103	01-011010.0000	Agricultural Vacant	Adams	Monroe	510 Hearn Street	Austin	TX	78703
10	Mildred Conger	No	0.0555556	1.296	0.0021789	01-011010.0000	Agricultural Vacant	Adams	Monroe	125 David Canary Drive, Room 203	Massillon	OH	44647
10	Charles Evans	No	0.0277778	0.648	0.0010895	01-011010.0000	Agricultural Vacant	Adams	Monroe	222 Berger St. S.	East Canton	OH	44730
10	David Evans and Deborah Evans	No	0.0277778	0.648	0.0010895	01-011010.0000	Agricultural Vacant	Adams	Monroe	11372 Ravenna Ave.	Louisville	OH	44641
11	Mildred Conger	No	0.0555556	1.296	0.0021785	01-011016.0000	Agricultural with Buildings	Adams	Monroe	125 David Canary Drive, Room 203	Massillon	OH	44647
11	Charles Evans	No	0.0277778	0.648	0.0010892	01-011016.0000	Agricultural with Buildings	Adams	Monroe	222 Berger St. S.	East Canton	OH	44730
11	David Evans and Deborah Evans	No	0.0277778	0.648	0.0010892	01-011016.0000	Agricultural with Buildings	Adams	Monroe	11372 Ravenna Ave.	Louisville	OH	44641
13	Mildred Conger	No	0.0555556	4.298	0.0072243	01-011001.0000	Forest Land	Adams	Monroe	125 David Canary Drive, Room 203	Massillon	OH	44647
13	Charles Evans	No	0.0277778	2.149	0.0036121	01-011001.0000	Forest Land	Adams	Monroe	222 Berger St. S.	East Canton	OH	44730
13	David Evans and Deborah Evans	No	0.0277778	2.149	0.0036121	01-011001.0000	Forest Land	Adams	Monroe	11372 Ravenna Ave.	Louisville	OH	44641
17	Michael Chirpas	No	0.2500000	3.804	0.0063933	01-011004.1000	Agricultural Vacant	Adams	Monroe	1265 Chilton Road	Allons	TN	38541
17	Gary Chirpas	No	0.2500000	3.804	0.0063933	01-011004.1000	Agricultural Vacant	Adams	Monroe	1265 Chilton Road	Allons	TN	38541
17	Steve Chirpas, Jr.	No	0.2500000	3.804	0.0063933	01-011004.1000	Agricultural Vacant	Adams	Monroe	1265 Chilton Road	Allons	TN	38541
17	Arendei Investments, LLC	No	0.2500000	3.804	0.0063933	01-011004.1000	Agricultural Vacant	Adams	Monroe	1265 Chilton Road	Allons	TN	38541
18	Michael Chirpas	No	0.2500000	13.102	0.0220233	01-011004.0000	Agricultural Vacant	Adams	Monroe	1265 Chilton Road	Allons	TN	38541
18	Gary Chirpas	No	0.2500000	13.102	0.0220233	01-011004.0000	Agricultural Vacant	Adams	Monroe	1265 Chilton Road	Allons	TN	38541
18	Steve Chirpas, Jr.	No	0.2500000	13.102	0.0220233	01-011004.0000	Agricultural Vacant	Adams	Monroe	1265 Chilton Road	Allons	TN	38541
18	Arendei Investments, LLC	No	0.2500000	13.102	0.0220233	01-011004.0000	Agricultural Vacant	Adams	Monroe	1265 Chilton Road	Allons	TN	38541
30	Janet L. Greene	No	0.7500000	2.670	0.0044880	01-004006.0000	Agricultural Vacant	Adams	Monroe	18981 NW 243 Rd	High Springs	FL	32643
Total Unleased Acres:			96.028	0.1614149									
Total Unit Acres: 594.916													

Exhibit A-4
All Committed Working Interest Owners in the proposed Crawford B 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
1a	Eclipse Resources I, LP	122 W. John Carpenter Fwy, Suite 300	Irving	Texas	75039	Yes	0.7777778	1.101	0.0018512	01-003034.0000	Adams	Monroe
1b	Eclipse Resources I, LP	122 W. John Carpenter Fwy, Suite 300	Irving	Texas	75039	Yes	0.0277778	0.033	0.0000557	01-003034.0000	Adams	Monroe
2	Eclipse Resources I, LP	122 W. John Carpenter Fwy, Suite 300	Irving	Texas	75039	Yes	0.7083333	0.288	0.0004846	01-003029.0000	Adams	Monroe
3	Eclipse Resources I, LP	122 W. John Carpenter Fwy, Suite 300	Irving	Texas	75039	Yes	1.0000000	0.196	0.0003295	01-003012.0000	Adams	Monroe
4	Eclipse Resources I, LP	122 W. John Carpenter Fwy, Suite 300	Irving	Texas	75039	Yes	0.9583330	0.030	0.0000499	01-003011.0000	Adams	Monroe
5	Eclipse Resources I, LP	122 W. John Carpenter Fwy, Suite 300	Irving	Texas	75039	Yes	1.0000000	0.013	0.0000219	01-004007.0000	Adams	Monroe
6a	Eclipse Resources I, LP	122 W. John Carpenter Fwy, Suite 300	Irving	Texas	75039	Yes	1.0000000	51.302	0.0862340	01-004003.0000	Adams	Monroe
6b	Eclipse Resources I, LP	122 W. John Carpenter Fwy, Suite 300	Irving	Texas	75039	Yes	1.0000000	31.543	0.0530209	01-004003.0000	Adams	Monroe
7	Eclipse Resources I, LP	122 W. John Carpenter Fwy, Suite 300	Irving	Texas	75039	Yes	0.5000000	1.396	0.0023457	01-004010.0000	Adams	Monroe
8	Eclipse Resources I, LP	122 W. John Carpenter Fwy, Suite 300	Irving	Texas	75039	Yes	1.0000000	72.676	0.1221618	01-004009.0000	Adams	Monroe
9	Eclipse Resources I, LP	122 W. John Carpenter Fwy, Suite 300	Irving	Texas	75039	Yes	1.0000000	10.844	0.0182278	01-011006.0000	Adams	Monroe
10	Eclipse Resources I, LP	122 W. John Carpenter Fwy, Suite 300	Irving	Texas	75039	Yes	0.3888889	9.074	0.0152525	01-011010.0000	Adams	Monroe
11	Eclipse Resources I, LP	122 W. John Carpenter Fwy, Suite 300	Irving	Texas	75039	Yes	0.8888889	20.736	0.0348553	01-011016.0000	Adams	Monroe
12	Eclipse Resources I, LP	122 W. John Carpenter Fwy, Suite 300	Irving	Texas	75039	Yes	1.0000000	27.251	0.0458065	01-011003.0000	Adams	Monroe
13	Eclipse Resources I, LP	122 W. John Carpenter Fwy, Suite 300	Irving	Texas	75039	Yes	0.8888889	68.765	0.1155883	01-011001.0000	Adams	Monroe
14	Eclipse Resources I, LP	122 W. John Carpenter Fwy, Suite 300	Irving	Texas	75039	Yes	1.0000000	61.337	0.1031020	01-011008.0000	Adams	Monroe
15	Eclipse Resources I, LP	122 W. John Carpenter Fwy, Suite 300	Irving	Texas	75039	Yes	1.0000000	41.172	0.0692064	01-011002.0000	Adams	Monroe
16	Eclipse Resources I, LP	122 W. John Carpenter Fwy, Suite 300	Irving	Texas	75039	Yes	1.0000000	0.001	0.0000017	01-011011.0000	Adams	Monroe
19	Eclipse Resources I, LP	122 W. John Carpenter Fwy, Suite 300	Irving	Texas	75039	Yes	1.0000000	16.480	0.0277014	01-010006.0000	Adams	Monroe
20	Eclipse Resources I, LP	122 W. John Carpenter Fwy, Suite 300	Irving	Texas	75039	Yes	1.0000000	23.302	0.0391686	01-010005.0000	Adams	Monroe
21	Eclipse Resources I, LP	122 W. John Carpenter Fwy, Suite 300	Irving	Texas	75039	Yes	1.0000000	7.982	0.0134170	01-017003.0000	Adams	Monroe
22	Eclipse Resources I, LP	122 W. John Carpenter Fwy, Suite 300	Irving	Texas	75039	Yes	1.0000000	19.545	0.0328534	01-017012.0000	Adams	Monroe
23	Eclipse Resources I, LP	122 W. John Carpenter Fwy, Suite 300	Irving	Texas	75039	Yes	1.0000000	0.767	0.0012893	01-018006.0000	Adams	Monroe
24	Eclipse Resources I, LP	122 W. John Carpenter Fwy, Suite 300	Irving	Texas	75039	Yes	1.0000000	0.014	0.0000235	01-010009.0000	Adams	Monroe
25	Eclipse Resources I, LP	122 W. John Carpenter Fwy, Suite 300	Irving	Texas	75039	Yes	1.0000000	2.465	0.0041434	01-017003.0000	Adams	Monroe
26	Eclipse Resources I, LP	122 W. John Carpenter Fwy, Suite 300	Irving	Texas	75039	Yes	1.0000000	4.891	0.0082213	01-017012.0000	Adams	Monroe
27	Eclipse Resources I, LP	122 W. John Carpenter Fwy, Suite 300	Irving	Texas	75039	Yes	1.0000000	5.057	0.0085004	01-018006.0000	Adams	Monroe
28	Eclipse Resources I, LP	122 W. John Carpenter Fwy, Suite 300	Irving	Texas	75039	Yes	1.0000000	4.132	0.0069455	01-010009.0000	Adams	Monroe
30	Eclipse Resources I, LP	122 W. John Carpenter Fwy, Suite 300	Irving	Texas	75039	Yes	0.0277778	0.099	0.0001662	01-004006.0000	Adams	Monroe

Total Committed Acres: **482.492** **0.8110256**

Total Unit Acres: **594.916**

Exhibit A-5

All Uncommitted Working Interest Owners in the proposed Crawford B 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 Unit	Tax Map Parcel ID	Township	County
1a	Gulfport Energy Corporation	3001 Quail Springs Parkway	Oklahoma City	Oklahoma	73134	Yes	0.2222222	0.315	0.0005289	01-003034.0000	Adams	Monroe
1b	Gulfport Energy Corporation	3001 Quail Springs Parkway	Oklahoma City	Oklahoma	73134	Yes	0.9722222	1.159	0.0019480	01-003034.0000	Adams	Monroe
2	Gulfport Energy Corporation	3001 Quail Springs Parkway	Oklahoma City	Oklahoma	73134	Yes	0.2500000	0.102	0.0001710	01-003029.0000	Adams	Monroe
7	Gulfport Energy Corporation	3001 Quail Springs Parkway	Oklahoma City	Oklahoma	73134	Yes	0.4027778	1.124	0.0018896	01-004010.0000	Adams	Monroe
29	Gulfport Energy Corporation	3001 Quail Springs Parkway	Oklahoma City	Oklahoma	73134	Yes	1.0000000	12.905	0.0216921	01-004004.0000	Adams	Monroe
30	Gulfport Energy Corporation	3001 Quail Springs Parkway	Oklahoma City	Oklahoma	73134	Yes	0.2222222	0.791	0.0013298	01-004006.0000	Adams	Monroe
Total Uncommitted Acres:							16.396	0.0275595				
Total Unit Acres:							594.916					

Exhibit A-6

All parcels subject to pending ownership litigation in the proposed Crawford B 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 Unit	Tax Map Parcel ID	Township	County
There are no parcels subject to pending ownership litigation in the proposed Crawford B Unit.												

There are no parcels subject to pending ownership litigation in the proposed Crawford B Unit.

EXHIBIT "B"

OIL AND GAS LEASE (PAID UP LEASE)

This lease (hereinafter referred to as the "Lease") dated this _____ day of _____, 2017 (the "Lease Date"), by and between _____, with an address at _____, (hereinafter called "Lessor") and **ECLIPSE RESOURCES I, LP**, a Delaware limited partnership, with its principal address at 2121 Old Gatesburg Road, Suite 110, State College, Pennsylvania 16803 (hereinafter called "Lessee").

WITNESSETH, that for and in consideration of the premises and mutual benefits contained herein, the Lessor and Lessee, intending to be legally bound, agree as follows:

1. LEASING CLAUSE: Lessor, in consideration of the covenants, agreements, obligations and consideration set forth herein, hereby leases and lets exclusively to Lessee, and its successors and assigns, 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, contained in, associated with, emitting from, or underlying the Leasehold (as hereinafter defined), together with exclusive rights to enter into, in, on and upon said lands herein leased at all times and on one or more occasions for the purposes set forth herein and together further with such exclusive rights as may be necessary or convenient for Lessee, at its election, to explore for, drill for, develop, produce, measure, and market production of oil and gas and their liquid or gaseous constituents, whether hydrocarbon or non-hydrocarbon, from the Leasehold, and from adjoining lands, using methods and techniques which are not restricted to current technology, including the right to inject air, gas, water, and other substances from whatever source into any subsurface strata, except potable water strata; to conduct geophysical, seismic and other exploratory tests; to drill, maintain, operate, rework, stimulate, complete, cease to operate, plug, abandon, and remove wells; to use or install roads, electric power and telephone facilities, and to construct one or more pipelines with appurtenant facilities (including data acquisition, compression and collection facilities) for use in the measurement, production and transportation of oil, gas, water or other products to or from the Leasehold or to or from neighboring lands across the Leasehold; and to operate, maintain, repair, and remove materials and equipment.

2. DESCRIPTION: "See Schedule I attached hereto and made a part hereof."

3. LEASE TERM: This Lease shall remain in force for a primary term of five (5) years from the Lease Date (the "Primary Term"), and shall continue beyond the Primary Term (or any extension thereof) as to the entirety of the Leasehold for so long thereafter as any one or more of the following is satisfied: (i) operations are conducted on the Leasehold or lands pooled or 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 or unitized therewith, or (iii) oil or gas, or their constituents, are produced from the Leasehold or lands pooled or unitized therewith, or (iv) if the Leasehold or lands pooled or unitized therewith is used for underground storage of gas, or for the protection of stored gas, or (v) if prescribed payments hereunder are made, or (vi) if Shut-in Royalties provided hereunder are paid or (vii) Lessee's operations are delayed, postponed, prevented or interrupted as a result of (A) any coal, stone or other mining or mining related operation under any existing and effective lease, permit or authorization covering such operations on the Leasehold or on other lands affecting the Leasehold or (B) any laws, rules, regulations, orders, or drilling or well permitting moratoriums enacted or promulgated by any governmental body or regulatory authority (and such delay will automatically extend the primary or secondary term of this Lease without additional compensation or performance by Lessee for a period of time equal to any such delay, postponement, prevention 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 herein shall be conclusive evidence that the Lease has been extended beyond the Primary Term. Should Lessor or any other person bring any action in law that challenges the continued effectiveness of this Lease, and upon litigation or other resolution thereof the continued validity of this Lease is upheld, the term of this Lease (whether primary or secondary) shall be continued for the full period between the date of the filing of the claim to a date six months after the date of the final resolution thereof that is no longer subject to appeal.

4. NO AUTOMATIC TERMINATION OR FORFEITURE:

(A) **CONSTRUCTION OF LEASE:** The language of this Lease shall never be read or construed 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 herein. 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 or 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 or equity action, arbitration or other 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 or the failure to make any prescribed payments, authorized or required under the terms of this Lessee, unless the Lessee has received written notice of Lessor's claim and a demand for performance and thereafter fails or refuses to satisfy or to provide reasonable justification for its act or omission in response to Lessor's demand within 60 days from the receipt thereof. If Lessee timely responds to Lessor's demand, but in good faith disagrees with Lessor's position and set 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 this dispute, other than claims for undisputed on-going payments that may be due under the terms of this Lease during the pendency of this dispute and any effort by the parties to resolve the dispute.

5. **PAYMENTS TO LESSOR.** Subject to the terms and conditions set forth herein, Lessee covenants to pay Lessor, proportionate to Lessor's percentage of ownership, as follows:

(A) **ADVANCED DELAY RENTALS:** This Lease shall automatically become null and void and terminate, and all rights of either Lessor or Lessee hereunder shall cease and terminate, unless, within 120 days from the Lease Date, Lessee elects to pay, in proportion to Lessor's percentage of ownership of the oil and gas and related interests in the Leasehold, as pre-paid advanced delay rentals, the sum of (\$_____) per net mineral acre of the Leasehold, subject to adjustment pursuant to Section 12 hereof (the "Advanced Delay Rental Payment"). Lessor acknowledges and agrees that Lessee may elect not to pay the Advanced Delay Rental Payment for any reason whatsoever and allow the Lease to terminate without liability to the Lessor. Notwithstanding anything contained anywhere in this Lease or any public law to the contrary, should Lessee elect to pay the Advanced Delay Rental Payment, the parties hereto stipulate and agree that this is a "Paid Up" Lease with no further delay rental or delay in marketing payments due to Lessor during the Primary Term hereof, and that any and all bonuses and delay rentals due or payable hereunder have been prepaid to Lessor for the purpose of keeping this Lease in effect during and for the entirety of the Primary Term. In accepting the bonuses and delay rentals, Lessor and Lessee stipulate and agree that it is deemed for all purposes that all delay rentals have been timely paid on the anniversary date of this Lease on any annual basis, regardless of when same shall have been actually tendered to Lessor.

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

1. OIL. To pay Lessor an amount equal to _____ percent (____%) of the revenue realized by Lessee (after deducting any severance, ad valorem and any other applicable taxes) for all oil and any constituents thereof produced and marketed from the Leasehold, less the cost to transport or market the oil to the point of sale.

2. GAS. To pay Lessor on actual volumes of gas sold from said land, an amount equal to _____ percent (____%) of the net amount realized by Lessee, computed at the wellhead. As used in this lease, the term "net amount realized by Lessee, computed at the wellhead" shall mean the gross proceeds received by Lessee from the sale of oil and gas minus post-production costs incurred by Lessee between the wellhead and the point of sale. As used in this Lease, the term "post-production costs" shall mean all costs and expenses of (a) treating and processing oil and/or gas, and (b) separating liquid hydrocarbons from gas, other than condensate separated at the well, and (c) transporting oil and/or gas, including but not limited to transportation between the wellhead and any production or treating facilities, and transportation to the point of sale, and (d) compressing gas for transportation and delivery purposes, and (e) metering oil and/or gas to determine the amount sold and/or the amount used by Lessee) and (f) sales charges, commissions and fees paid to third parties (whether or not affiliated) in connection with the sale of the gas, and (g) any and all other costs and expenses of any kind or nature incurred in regard to the gas, or the handling thereof, between the wellhead and the point of sale. Lessee may use its own pipelines and equipment to provide such treating, processing, separating, transportation, compression and metering services, or it may engage others to provide such services; and if Lessee uses its own pipelines and/or equipment, post-production costs shall include without limitation reasonable depreciation and amortization expenses relating to such facilities, together with Lessee's cost of capital and a reasonable return on its investment in such facilities.

(C) SHUT-IN ROYALTY: In the event that production of oil, gas, or their constituents is interrupted and not marketed for a period of more than twelve months, or should Lessee elect to shut in a producing well for a period of more than twelve (12) months, and there is no producing well on the Leasehold or lands pooled or unitized therewith, Lessee shall thereafter, as royalty for constructive production, pay to Lessor an annual shut-in royalty equal to Ten Dollars (\$10.00) per net mineral acre of the Leasehold (proportionally reduced to Lessor's percentage of ownership in the Leasehold) until such time as production is re-established or Lessee surrenders the Lease (a "Shut-In Royalty") and this Lease shall thereafter remain in full force and effect. During such 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 months or Lessee elects to shut in a producing well for a period of less than twelve months, this Lease shall remain in full force and effect without payment of delay rental, Royalty or Shut-in Royalty.

(D) ADDITIONAL PROVISIONS: Prior to payment of Royalty, Lessor may be required to execute a Division Order certifying Lessor's interest in production. Lessee may pay all taxes and fees levied upon the oil and gas as produced, including, without limitation, severance taxes and privilege and surveillance fees, and deduct a proportionate share of the amount so paid from any monies payable to Lessor hereunder. Lessee may withhold Royalty payment until such time as the total withheld exceeds fifty dollars (\$50.00).

6. EQUIPMENT; DAMAGES: Lessee shall have the right at any time during the term of this Lease or after the expiration or termination thereof to remove all equipment, machinery, fixtures, pipelines, buildings, and other structures placed on the Leasehold by Lessee, including the right to pull and remove all casing and tubing. 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. Lessee shall bury all permanent pipelines below plow depth through cultivated areas upon request of Lessor owning an interest in the surface. Damages shall be calculated at current marketable value only; in no instance shall estimates of future values be considered. Any timber cut by Lessee in preparing access roads, right-of-ways, or locations will be stacked in an orderly manner in locations to be mutually agreed upon by Lessee and Lessor and will not be subject to damage reimbursement to Lessor by Lessee. Any injury to Lessee's workers or damages to Lessee's property that are caused by Lessor, whether intentional or not, shall be recoverable by Lessee from any royalty payments or any other payments to Lessor that are due or becoming due.

7. 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.

8. 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 change had not occurred.

9. TITLE DISPUTES: Lessor covenants and agrees that if Lessor's title to the Leasehold shall come into dispute or litigation, or if, in the judgment of Lessee, there are bona fide adverse claims to the rentals, royalties, rights or privileges of Lessor herein provided for, Lessee, at its option, may withhold such rights or privileges or the

payment of said rentals or royalties to all persons until final adjudication or other settlement of such dispute, litigation or claims.

10. 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 cost, by deduction from any future payments to Lessor or by any other lawful means.

11. CHARACTERIZATION OF PAYMENTS: Payments set forth herein are covenants, not special limitations, regardless of the manner in which these payments may be invoked. Except as provided in Section 5(a) of this Lease, 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 rentals and other payments paid or to be 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.

12. PAYMENT REDUCTIONS AND CORRECTIONS: If it is determined that Lessor owns a lesser interest in the oil and gas than the entire undivided fee simple estate, then the rentals (including, without limitation, the Advanced Delay Rental Payment), royalties and shut-in royalties payable hereunder shall be paid to Lessor only in the proportion which Lessor's interest bears to the whole and undivided fee. If it is determined that Lessor does not have sufficient title to all or any portion of the oil and gas contained in, associated with, emitting from, or underlying the Leasehold, Lessor agrees on demand made to refund to Lessee any rental (including, without limitation, the Advanced Delay Rental Payment) or royalty previously paid Lessor, and to release Lessee from the payment of any future rental (including, without limitation, the Advanced Delay Rental Payment) or royalty, in proportion to the amount of acreage affected by the insufficient title. If it is determined that the quantity of acreage of land of the Leasehold recited herein is in excess of the true quantity of acreage of land, Lessor agrees on demand made to refund to Lessee any rental previously paid (including, the Advanced Delay Rental Payment), and to release Lessee from the payment of any future rental (including, the Advanced Delay Rental Payment), in the proportion that the excess of recited acreage over the true acreage in the Leasehold bears to the recited acreage. If the recited acreage is found to be less than the true quantity of acreage of land in the Leasehold, Lessee on demand made shall pay to Lessor the arrears in rental payments on the basis of excess of the true quantity of acreage over the said recited acreage and shall thereafter pay any rentals on the basis of the true quantity of acreage.

13. HORIZONTAL DRILLING. Lessor consents and agrees to the use of a horizontal well on and under the Leasehold and Lessor specifically: (i) grants to Lessee the right, in Lessee's sole and absolute discretion, to use the Leasehold as the site of the vertical bore for such horizontal well, whether or not that bore intersects the target formation upon the Leasehold, (ii) grants to Lessee the right, in Lessee's sole and absolute discretion, to horizontally drill through the Leasehold whether or not that bore intersects the target formation upon the Leasehold, whether or not any completion or stimulation is performed upon the Leasehold and whether or not production is obtained or maintained upon the Leasehold, and (iii) grants to the Lessee the right to perform such completions and simulations in and from any horizontal bore as Lessee may, in Lessee's sole and absolute discretion, determine. Any vertical or horizontal bore made upon the Leasehold as part of a horizontal well, the vertical bore of which is on the Leasehold or any other premises, shall be, and shall be deemed to be, a well drilled upon the Leasehold for all purposes of this Lease.

14. UNITIZATION AND POOLING: 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 for the unit, or payment of Royalty, Shut-in Royalty, 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, Lessee may, at its option, rely on the latter as being determinative for the purposes of this paragraph.

15. FACILITIES; SEISMIC: Lessee shall not drill a well within 200 feet of any structure located on the Leasehold without Lessor's prior 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. Lessor grants to Lessee and Lessee's geophysical agents and contractors the exclusive right and permission to conduct one or more seismic operations across the Leasehold. Lessee and Lessee's geophysical agents and contractors are hereby granted, for both personnel and equipment, access to the Leasehold Premises for the purpose of conducting the seismic operations on the Leasehold, including, but not limited to, surveying, and the acquisition of seismic data. Lessee agrees to protect Lessor from any and all claims and damages that may result from the seismic operations conducted

hereunder. Lessee and Lessee's geophysical agents or contractors will conduct seismic operations in such a manner as to leave the surface of the land in as near the original condition as reasonably possible.

16. **TITLE AND INTERESTS; AFFIDAVIT OF NO PRODUCTION:** 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. Lessor hereby warrants that Lessor is not currently receiving any bonus, rental, or royalty as a result of any other oil and gas lease covering any or all of the Leasehold, and that there are no producing or shut-in wells currently existing on the Leasehold, or upon other lands with the boundaries of a drilling or production unit utilizing all or a part of the Leasehold.

17. **LEASE DEVELOPMENT:** Lessor and Lessee agree that, except as expressly stated herein, no implied covenants, obligations or conditions whatsoever shall be read into this Lease, including any covenants or conditions relating to the development, extraction or exploration of the Leasehold or the Oil and Gas within a certain time frame, or relating to the marketing of production, or requiring Lessee to drill a well or wells or to continue drilling on the Leasehold, or fixing the measure of diligence necessary on Lessee's part, or relating to the production of any wells or offsets wells, or relating to the prevention of drainage, or relating to any other operations of Lessee hereunder, or relating to anything to be done by the Lessee including the plugging and abandoning of any wells at any time for any reason. There shall be no Lease forfeiture, termination, expiration, damages or cancellation for (i) failure to comply with any implied covenants or (ii) for failure to comply with obligations if compliance is effectively prevented by any of the conditions set forth in subparagraph vi of the Lease Term paragraph or Force Majeure paragraph of this lease.. The consideration paid and the provisions herein, including any prescribed payments, constitute full compensation for the privileges herein granted.

18. **EXTENSION OF TERM:** Lessor hereby grants unto Lessee, its successors and assigns, the exclusive option and right to extend this Lease beyond the Primary Term for one additional term of five (5) years by paying to Lessor at any time before the expiration of the Primary Term, or within one hundred at 120 days following the expiration of the Primary Term, a payment in an amount equal to the Advanced Delay Rental Payment.

19. **RIGHT OF FIRST REFUSAL:** 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 (a "Top Lease") covering all or part of the Leasehold, Lessee shall have the continuing option, by meeting any such offer, to acquire such 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.

20. **ARBITRATION:** In the event of a disagreement between Lessor and Lessee concerning this Lease, performance hereunder, or damages alleged to have been caused by Lessee's operations, the resolution of all such disputes shall be determined by arbitration in accordance with the Commercial Arbitration Rules of the American Arbitration Association. Arbitration shall be conducted before a single arbitrator, with at least ten years' experience in oil and gas law in Ohio, regardless of the amount in controversy, and the arbitrator shall be appointed within 14 days after the arbitration is requested. Such arbitration shall be conducted in Columbus, Ohio unless another location is agreed to in writing by the Lessor and Lessee. All fees and costs associated with the arbitration shall be borne equally by Lessor and Lessee. The arbitrator shall be required by the arbitration agreement to make an award within 30 days following the last day of arbitration hearings conducted in the matter. The award rendered by the arbitrator shall be final and judgment upon the arbitration award may be entered in any court having jurisdiction thereof.

21. **ENTIRE CONTRACT:** This Lease (including an addendum attached hereto, if any) sets forth the entire agreement and understanding between the parties as to the subject matter hereof, and supersedes, integrates and merges all prior discussions, correspondence, negotiations, understandings or agreements. No oral warranties, representations or promises have been made or relied upon by either party as an inducement to or modification of this Lease. This Lease is the result of negotiations between the parties and each party has been given the opportunity to consult with legal counsel. Any rule of contract construction that an instrument is to be construed more strictly against the drafter shall not apply to this Lease. This Lease shall be construed as a whole and in accordance with the fair meaning of its language.

22. **SURRENDER:** 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 written notice to the Lessor or by placing the surrender thereof on record in the proper county, either of which shall constitute a full and legal surrender of this Lease as to all the Leasehold or such portion thereof as said surrender shall indicate and shall be a cancellation of all liabilities under same of each and all parties hereto to the extent indicated on the surrender, and the rentals herein provided shall be reduced in proportion to the acreage surrendered. At and after the termination or surrender of all or a portion of this Lease, (i) ownership of any such pipelines, pole lines, roadways and other facilities laid or constructed during the term of this Lease shall not revert to Lessor, and at Lessee's option and without any fee payable to Lessor, Lessee shall continue to have the right

of unlimited access to operate, maintain or remove said pipelines, poles, roadways and facilities; but (ii) Lessee shall not be entitled to lay and maintain additional pipelines across the Leasehold without specific written consent of Lessor.

23. **SUCCESSORS.** All rights, duties and liabilities herein benefit and bind Lessor and Lessee and their heirs, successors and assigns.

24. **FORCE MAJEURE:** When drilling, reworking, fracturing, stimulating, 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 or delay in obtaining for any reason any and all necessary permits (including, without limitation, an inability to obtain well permits as a result of objections of owners of coal rights), 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, including any periods of depressed natural gas pricing, this Lease shall not terminate 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 for breach of any provisions, covenants or implied covenants of this Lease when drilling, production, or other operations are so prevented or delayed.

25. **SEVERABILITY:** This Lease is intended to be in conformity with all laws, rules, regulations and orders and interpreted as such. If any court of competent jurisdiction holds any provision of this Lease invalid or unenforceable (including, without limitation, under any applicable minimum royalty statute), this Lease and the other provisions of this Lease will nevertheless remain in full force and effect. Any provision of the Lease held invalid or unenforceable only in part or degree will remain in full force and effect to the extent not held invalid or unenforceable.

26. **GOVERNING LAW:** This Lease and enforcement hereunder shall be governed by the laws of the State of Ohio, without regard to conflicts of law principles that might refer the interpretation hereof to the laws of another state. Further, subject to the arbitration requirements of Section 20 of this Lease, the parties consent to the sole and exclusive jurisdiction in the state and federal courts that have jurisdiction over the county in which the Leasehold is located for all claims related to enforcement of this Lease. **NOTWITHSTANDING ANYTHING IN THIS LEASE TO THE CONTRARY, NEITHER LESSOR NOR LESSEE (OR ITS PARTNERS, OFFICERS, EMPLOYEES, DIRECTORS OR MANAGERS OR ITS OR THEIR RESPECTIVE SUBSIDIARIES OR AFFILIATES) SHALL BE LIABLE FOR PUNITIVE, INDIRECT, INCIDENTAL, EXEMPLARY OR CONSEQUENTIAL LOSSES OR DAMAGES WHATSOEVER FOR ANY MATTER RELATING TO OR ARISING OUT OF THIS LEASE, INCLUDING LOSS OF PROFITS, WHETHER BASED UPON BREACH OF CONTRACT, BREACH OF WARRANTY, TORT LIABILITY (INCLUDING NEGLIGENCE AND STRICT LIABILITY), STRICT LIABILITY, OR OTHER LEGAL THEORY, EXCEPT TO THE EXTENT OF THE EXPRESS REMEDIES PROVIDED FOR HEREIN.** NOTHING CONTAINED IN THIS LEASE SHALL BE CONSTRUED TO RELIEVE EITHER PARTY OF ITS OBLIGATION TO MITIGATE DAMAGES FOR THE OTHER PARTY'S BREACH. THE TOTAL MONETARY AMOUNT FOR LOSSES AND DAMAGES, FOR ANY MATTER RELATING TO OR ARISING OUT OF A BREACH OF THIS LEASE THAT LESSEE SHALL BE OBLIGATED TO PAY TO LESSOR SHALL NOT EXCEED AN AMOUNT EQUAL TO THE ACTUAL, DIRECT LOSSES OR DAMAGES SUSTAINED BY LESSOR FOR SUCH MATTER.

27. **EFFECTIVENESS:** This Lease shall be effective only upon the due execution of this Lease by both Lessor and Lessee. **LESSOR ACKNOWLEDGES AND AGREES THAT ANY PERSON OR PERSONS NEGOTIATING THE TERMS AND CONDITIONS OF THIS LEASE ON BEHALF OF LESSEE IS AN INDEPENDENT CONTRACTOR OF LESSEE AND NOT ITS AGENT OR EMPLOYEE, THAT SUCH PERSON OR PERSONS HAVE NO AUTHORITY TO BIND LESSEE TO THE LEASE OR OTHERWISE, AND THAT THIS LEASE OR ANY OTHER PROMISE OR AGREEMENT SHALL NOT BE BINDING UPON LESSEE UNTIL THIS LEASE IS ACCEPTED BY LESSEE ONLY AS EVIDENCED BY THE DUE EXECUTION OF THIS LEASE BY AN OFFICER OR OTHER AUTHORIZED PERSON OF LESSEE.** LESSOR FURTHER ACKNOWLEDGES AND AGREES THAT LESSEE MAY DECLINE TO ACCEPT AND EXECUTE THIS LEASE FOR ANY REASON WHATSOEVER IN ITS SOLE AND COMPLETE DISCRETION, AND IN THE EVENT LESSEE ELECTS NOT TO ACCEPT THIS LEASE, LESSEE SHALL HAVE NO OBLIGATION OR LIABILITY TO LESSOR HEREUNDER WHATSOEVER, INCLUDING, WITHOUT LIMITATION, TO MAKE THE ADVANCED DELAY RENTAL PAYMENT PRESCRIBED IN SECTION 5(A) OF THIS LEASE.

28. **HEADINGS:** The headings and titles used in this Lease are inserted for convenience only and shall be disregarded in construing terms, conditions and provisions of this Agreement.

29. **NO THIRD PARTY BENEFICIARIES.** Nothing in this Lease shall provide any benefit to any third party or entitle any third party to any claim, cause of action, remedy or right of any kind, it being the intent of the parties hereto that this Lease shall not be construed as a third-party beneficiary contract.

30. **FURTHER ASSURANCES.** In connection with this Lease, each party hereto shall execute and deliver any additional documents and instruments and perform any additional acts that may be necessary or appropriate to effectuate and perform the provisions of this Lease.

31. **AMENDMENTS; ASSIGNMENTS; EXPENSES; COUNTERPARTS:** This Lease may not be subsequently amended except by an instrument in writing signed by Lessor and Lessee. The privilege of assignment

of this Lease in whole or in part is expressly allowed to Lessor and Lessee. All fees, costs and expense incurred by Lessor and Lessee in negotiating or preparing this Lease shall be paid by the party incurring the same. This Lease may be executed by Lessor and Lessee in any number of counterparts, each of which shall be deemed an original instrument, but all of which together shall constitute but one and the same instrument. Any party may execute this Lease by facsimile signature and the other party will be entitled to rely on such facsimile signature as evidence that this Lease has been duly executed by such party.

See Exhibit "A" attached hereto and made a part hereof.

IN WITNESS WHEREOF, the parties have executed this Lease on the dates set forth below.

LESSOR:

[FOR LESSOR THAT IS AN ENTITY]

(Insert Name of Lessor Entity)

By: _____
Name: _____
Title: _____

Date: _____

LESSEE:

ECLIPSE RESOURCES I, LP,
a Delaware limited partnership

By: _____
Name: Marty L. Byrd
Title: Vice President, Land

Date: _____

[FOR LESSORS WHO ARE INDIVIDUALS]

Name: _____
Date: _____

Name: _____
Date: _____

LESSOR ACKNOWLEDGMENTS

STATE OF OHIO

§

COUNTY OF _____

§

§

On this ____ day of _____, 2017, before me, the undersigned officer, personally appeared _____, known to me (or satisfactorily proven) to be the person(s) whose name(s) are subscribed to the within instrument, and acknowledged that each executed the same for the purposes therein contained.

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

Notary Public

My commission expires:

STATE OF OHIO

§

§

COUNTY OF _____

§

On this ____ day of _____, 2017, before me, the undersigned officer, personally appeared _____, who acknowledged himself/herself to be the _____ of _____, a _____ of the State of _____, and that he/she, as such officer, being authorized to do so, executed the foregoing instrument for the purposes therein contained by signing the name of the company by himself/herself as such officer.

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

Notary Public

My commission expires:

LESSEE ACKNOWLEDGMENT

COMMONWEALTH OF PENNSYLVANIA

§

COUNTY OF CENTRE

§

On this ____ day of _____ 2017, before me, the undersigned officer, personally appeared Marty L. Byrd, who acknowledged himself to be the Vice President, Land, of Eclipse Resources I, LP, a Delaware limited partnership, and that he, as such officer, being authorized to do so on behalf of the limited partnership, executed the foregoing instrument for the purposes therein contained by signing the name of the limited partnership by himself as such officer.

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

Notary Public

My commission expires:

Exhibit "C" ACCOUNTING PROCEDURE JOINT OPERATIONS

Attached to and made part of that certain Joint Operating Agreement dated **July 1, 2014** by and between Eclipse Resources I, LP, as Operator, and Eclipse Resources – Ohio, LLC and _____, as Non-Operators.

I. GENERAL PROVISIONS

IF THE PARTIES FAIL TO SELECT EITHER ONE OF COMPETING "ALTERNATIVE" PROVISIONS, OR SELECT ALL THE COMPETING "ALTERNATIVE" PROVISIONS, ALTERNATIVE 1 IN EACH SUCH INSTANCE SHALL BE DEEMED TO HAVE BEEN ADOPTED BY THE PARTIES AS A RESULT OF ANY SUCH OMISSION OR DUPLICATE NOTATION.

IN THE EVENT THAT ANY "OPTIONAL" PROVISION OF THIS ACCOUNTING PROCEDURE IS NOT ADOPTED BY THE PARTIES TO THE AGREEMENT BY A TYPED, PRINTED OR HANDWRITTEN INDICATION, SUCH PROVISION SHALL NOT FORM A PART OF THIS ACCOUNTING PROCEDURE, AND NO INFERENCE SHALL BE MADE CONCERNING THE INTENT OF THE PARTIES IN SUCH EVENT.

1. DEFINITIONS

All terms used in this Accounting Procedure shall have the following meaning, unless otherwise expressly defined in the Agreement:

"Affiliate" means for a person, another person that controls, is controlled by, or is under common control with that person. In this definition, (a) control means the ownership by one person, directly or indirectly, of more than fifty percent (50%) of the voting securities of a corporation or, for other persons, the equivalent ownership interest (such as partnership interests), and (b) "person" means an individual, corporation, partnership, trust, estate, unincorporated organization, association, or other legal entity.

"Agreement" means the operating agreement, farmout agreement, or other contract between the Parties to which this Accounting Procedure is attached.

"Controllable Material" means Material that, at the time of acquisition or disposition by the Joint Account, as applicable, is so classified in the Material Classification Manual most recently recommended by the Council of Petroleum Accountants Societies (COPAS).

"Equalized Freight" means the procedure of charging transportation cost to the Joint Account based upon the distance from the nearest Railway Receiving Point to the property.

"Excluded Amount" means a specified excluded trucking amount most recently recommended by COPAS.

"Field Office" means a structure, or portion of a structure, whether a temporary or permanent installation, the primary function of which is to directly serve daily operation and maintenance activities of the Joint Property and which serves as a staging area for directly chargeable field personnel.

"First Level Supervision" means those employees whose primary function in Joint Operations is the direct oversight of the Operator's field employees and/or contract labor directly employed On-site in a field operating capacity. First Level Supervision functions may include, but are not limited to:

- Responsibility for field employees and contract labor engaged in activities that can include field operations, maintenance, construction, well remedial work, equipment movement and drilling
- Responsibility for day-to-day direct oversight of rig operations
- Responsibility for day-to-day direct oversight of construction operations
- Coordination of job priorities and approval of work procedures
- Responsibility for optimal resource utilization (equipment, Materials, personnel)
- Responsibility for meeting production and field operating expense targets
- Representation of the Parties in local matters involving community, vendors, regulatory agents and landowners, as an incidental part of the supervisor's operating responsibilities
- Responsibility for all emergency responses with field staff
- Responsibility for implementing safety and environmental practices
- Responsibility for field adherence to company policy
- Responsibility for employment decisions and performance appraisals for field personnel
- Oversight of sub-groups for field functions such as electrical, safety, environmental, telecommunications, which may have group or team leaders.

"Joint Account" means the account showing the charges paid and credits received in the conduct of the Joint Operations that are to be shared by the Parties, but does not include proceeds attributable to hydrocarbons and by-products produced under the Agreement.

"Joint Operations" means all operations necessary or proper for the exploration, appraisal, development, production, protection, maintenance, repair, abandonment, and restoration of the Joint Property.

1 **“Joint Property”** means the real and personal property subject to the Agreement.
2

3 **“Laws”** means any laws, rules, regulations, decrees, and orders of the United States of America or any state thereof and all other
4 governmental bodies, agencies, and other authorities having jurisdiction over or affecting the provisions contained in or the transactions
5 contemplated by the Agreement or the Parties and their operations, whether such laws now exist or are hereafter amended, enacted,
6 promulgated or issued.
7

8 **“Material”** means personal property, equipment, supplies, or consumables acquired or held for use by the Joint Property.
9

10 **“Non-Operators”** means the Parties to the Agreement other than the Operator.
11

12 **“Offshore Facilities”** means platforms, surface and subsea development and production systems, and other support systems such as oil and
13 gas handling facilities, living quarters, offices, shops, cranes, electrical supply equipment and systems, fuel and water storage and piping,
14 helipad, marine docking installations, communication facilities, navigation aids, and other similar facilities necessary in the conduct of
15 offshore operations, all of which are located offshore.
16

17 **“Off-site”** means any location that is not considered On-site as defined in this Accounting Procedure.
18

19 **“On-site”** means on the Joint Property when in direct conduct of Joint Operations. The term “On-site” shall also include that portion of
20 Offshore Facilities, Shore Base Facilities, fabrication yards, and staging areas from which Joint Operations are conducted, or other
21 facilities that directly control equipment on the Joint Property, regardless of whether such facilities are owned by the Joint Account.
22

23 **“Operator”** means the Party designated pursuant to the Agreement to conduct the Joint Operations.
24

25 **“Parties”** means legal entities signatory to the Agreement or their successors and assigns. Parties shall be referred to individually as
26 “Party.”
27

28 **“Participating Interest”** means the percentage of the costs and risks of conducting an operation under the Agreement that a Party agrees,
29 or is otherwise obligated, to pay and bear.
30

31 **“Participating Party”** means a Party that approves a proposed operation or otherwise agrees, or becomes liable, to pay and bear a share of
32 the costs and risks of conducting an operation under the Agreement.
33

34 **“Personal Expenses”** means reimbursed costs for travel and temporary living expenses.
35

36 **“Railway Receiving Point”** means the railhead nearest the Joint Property for which freight rates are published, even though an actual
37 railhead may not exist.
38

39 **“Shore Base Facilities”** means onshore support facilities that during Joint Operations provide such services to the Joint Property as a
40 receiving and transhipment point for Materials; debarkation point for drilling and production personnel and services; communication,
41 scheduling and dispatching center; and other associated functions serving the Joint Property.
42

43 **“Supply Store”** means a recognized source or common stock point for a given Material item.
44

45 **“Technical Services”** means services providing specific engineering, geoscience, or other professional skills, such as those performed by
46 engineers, geologists, geophysicists, and technicians, required to handle specific operating conditions and problems for the benefit of Joint
47 Operations; provided, however, Technical Services shall not include those functions specifically identified as overhead under the second
48 paragraph of the introduction of Section III (*Overhead*). Technical Services may be provided by the Operator, Operator’s Affiliate, Non-
49 Operator, Non-Operator Affiliates, and/or third parties.
50

51 **2. STATEMENTS AND BILLINGS**

52

53 The Operator shall bill Non-Operators on or before the last day of the month for their proportionate share of the Joint Account for the
54 preceding month. Such bills shall be accompanied by statements that identify the AFE (authority for expenditure), lease or facility, and all
55 charges and credits summarized by appropriate categories of investment and expense. Controllable Material shall be separately identified
56 and fully described in detail, or at the Operator’s option, Controllable Material may be summarized by major Material classifications.
57 Intangible drilling costs, audit adjustments, and unusual charges and credits shall be separately and clearly identified.
58

59 The Operator may make available to Non-Operators any statements and bills required under Section I.2 and/or Section I.3.A (*Advances*
60 and *Payments by the Parties*) via email, electronic data interchange, internet websites or other equivalent electronic media in lieu of paper
61 copies. The Operator shall provide the Non-Operators instructions and any necessary information to access and receive the statements and
62 bills within the timeframes specified herein. A statement or billing shall be deemed as delivered twenty-four (24) hours (exclusive of
63 weekends and holidays) after the Operator notifies the Non-Operator that the statement or billing is available on the website and/or sent via
64 email or electronic data interchange transmission. Each Non-Operator individually shall elect to receive statements and billings
65 electronically, if available from the Operator, or request paper copies. Such election may be changed upon thirty (30) days prior written
66 notice to the Operator.

1 **3. ADVANCES AND PAYMENTS BY THE PARTIES**

2

3 A. Unless otherwise provided for in the Agreement, the Operator may require the Non-Operators to advance their share of the estimated
4 cash outlay for the succeeding month's operations within fifteen (15) days after receipt of the advance request or by the first day of
5 the month for which the advance is required, whichever is later. The Operator shall adjust each monthly billing to reflect advances
6 received from the Non-Operators for such month. If a refund is due, the Operator shall apply the amount to be refunded to the
7 subsequent month's billing or advance, unless the Non-Operator sends the Operator a written request for a cash refund. The Operator
8 shall remit the refund to the Non-Operator within fifteen (15) days of receipt of such written request.

9

10 B. Except as provided below, each Party shall pay its proportionate share of all bills in full within fifteen (15) days of receipt date. If
11 payment is not made within such time, the unpaid balance shall bear interest compounded monthly at the prime rate published by the
12 *Wall Street Journal* on the first day of each month the payment is delinquent, plus three percent (3%), per annum, or the maximum
13 contract rate permitted by the applicable usury Laws governing the Joint Property, whichever is the lesser, plus attorney's fees, court
14 costs, and other costs in connection with the collection of unpaid amounts. If the *Wall Street Journal* ceases to be published or
15 discontinues publishing a prime rate, the unpaid balance shall bear interest compounded monthly at the prime rate published by the
16 Federal Reserve plus three percent (3%), per annum. Interest shall begin accruing on the first day of the month in which the payment
17 was due. Payment shall not be reduced or delayed as a result of inquiries or anticipated credits unless the Operator has agreed.
18 Notwithstanding the foregoing, the Non-Operator may reduce payment, provided it furnishes documentation and explanation to the
19 Operator at the time payment is made, to the extent such reduction is caused by:
20

21 (1) being billed at an incorrect working interest or Participating Interest that is higher than such Non-Operator's actual working
22 interest or Participating Interest, as applicable; or
23 (2) being billed for a project or AFE requiring approval of the Parties under the Agreement that the Non-Operator has not approved
24 or is not otherwise obligated to pay under the Agreement; or
25 (3) being billed for a property in which the Non-Operator no longer owns a working interest, provided the Non-Operator has
26 furnished the Operator a copy of the recorded assignment or letter in-lieu. Notwithstanding the foregoing, the Non-Operator
27 shall remain responsible for paying bills attributable to the interest it sold or transferred for any bills rendered during the thirty
28 (30) day period following the Operator's receipt of such written notice; or
29 (4) charges outside the adjustment period, as provided in Section I.4 (*Adjustments*).

30 **4. ADJUSTMENTS**

31

32 A. Payment of any such bills shall not prejudice the right of any Party to protest or question the correctness thereof; however, all bills
33 and statements, including payout statements, rendered during any calendar year shall conclusively be presumed to be true and correct,
34 with respect only to expenditures, after twenty-four (24) months following the end of any such calendar year, unless within said
35 period a Party takes specific detailed written exception thereto making a claim for adjustment. The Operator shall provide a response
36 to all written exceptions, whether or not contained in an audit report, within the time periods prescribed in Section I.5 (*Expenditure
37 Audits*).

38

39 B. All adjustments initiated by the Operator, except those described in items (1) through (4) of this Section I.4.B, are limited to the
40 twenty-four (24) month period following the end of the calendar year in which the original charge appeared or should have appeared
41 on the Operator's Joint Account statement or payout statement. Adjustments that may be made beyond the twenty-four (24) month
42 period are limited to adjustments resulting from the following:
43

44 (1) a physical inventory of Controllable Material as provided for in Section V (*Inventories of Controllable Material*), or
45 (2) an offsetting entry (whether in whole or in part) that is the direct result of a specific joint interest audit exception granted by the
46 Operator relating to another property, or
47 (3) a government/regulatory audit, or
48 (4) a working interest ownership or Participating Interest adjustment.

50 **5. EXPENDITURE AUDITS**

51

52 A. A Non-Operator, upon written notice to the Operator and all other Non-Operators, shall have the right to audit the Operator's
53 accounts and records relating to the Joint Account within the twenty-four (24) month period following the end of such calendar year in
54 which such bill was rendered; however, conducting an audit shall not extend the time for the taking of written exception to and the
55 adjustment of accounts as provided for in Section I.4 (*Adjustments*). Any Party that is subject to payout accounting under the
56 Agreement shall have the right to audit the accounts and records of the Party responsible for preparing the payout statements, or of
57 the Party furnishing information to the Party responsible for preparing payout statements. Audits of payout accounts may include the
58 volumes of hydrocarbons produced and saved and proceeds received for such hydrocarbons as they pertain to payout accounting
59 required under the Agreement. Unless otherwise provided in the Agreement, audits of a payout account shall be conducted within the
60 twenty-four (24) month period following the end of the calendar year in which the payout statement was rendered.

61

62 Where there are two or more Non-Operators, the Non-Operators shall make every reasonable effort to conduct a joint audit in a
63 manner that will result in a minimum of inconvenience to the Operator. The Operator shall bear no portion of the Non-Operators'
64 audit cost incurred under this paragraph unless agreed to by the Operator. The audits shall not be conducted more than once each year
65 without prior approval of the Operator, except upon the resignation or removal of the Operator, and shall be made at the expense of
66

1 those Non-Operators approving such audit.

2 The Non-Operator leading the audit (hereinafter "lead audit company") shall issue the audit report within ninety (90) days after
3 completion of the audit testing and analysis; however, the ninety (90) day time period shall not extend the twenty-four (24) month
4 requirement for taking specific detailed written exception as required in Section I.4.A (*Adjustments*) above. All claims shall be
5 supported with sufficient documentation.

6 A timely filed written exception or audit report containing written exceptions (hereinafter "written exceptions") shall, with respect to
7 the claims made therein, preclude the Operator from asserting a statute of limitations defense against such claims, and the Operator
8 hereby waives its right to assert any statute of limitations defense against such claims for so long as any Non-Operator continues to
9 comply with the deadlines for resolving exceptions provided in this Accounting Procedure. If the Non-Operators fail to comply with
10 the additional deadlines in Section I.5.B or I.5.C, the Operator's waiver of its rights to assert a statute of limitations defense against
11 the claims brought by the Non-Operators shall lapse, and such claims shall then be subject to the applicable statute of limitations,
12 provided that such waiver shall not lapse in the event that the Operator has failed to comply with the deadlines in Section I.5.B or
13 I.5.C.

14 B. The Operator shall provide a written response to all exceptions in an audit report within one hundred eighty (180) days after Operator
15 receives such report. Denied exceptions should be accompanied by a substantive response. If the Operator fails to provide substantive
16 response to an exception within this one hundred eighty (180) day period, the Operator will owe interest on that exception or portion
17 thereof, if ultimately granted, from the date it received the audit report. Interest shall be calculated using the rate set forth in Section
18 I.3.B (*Advances and Payments by the Parties*).

19 C. The lead audit company shall reply to the Operator's response to an audit report within ninety (90) days of receipt, and the Operator
20 shall reply to the lead audit company's follow-up response within ninety (90) days of receipt; provided, however, each Non-Operator
21 shall have the right to represent itself if it disagrees with the lead audit company's position or believes the lead audit company is not
22 adequately fulfilling its duties. Unless otherwise provided for in Section I.5.E, if the Operator fails to provide substantive response
23 to an exception within this ninety (90) day period, the Operator will owe interest on that exception or portion thereof, if ultimately
24 granted, from the date it received the audit report. Interest shall be calculated using the rate set forth in Section I.3.B (*Advances and
25 Payments by the Parties*).

26 D. If any Party fails to meet the deadlines in Sections I.5.B or I.5.C or if any audit issues are outstanding fifteen (15) months after
27 Operator receives the audit report, the Operator or any Non-Operator participating in the audit has the right to call a resolution
28 meeting, as set forth in this Section I.5.D or it may invoke the dispute resolution procedures included in the Agreement, if applicable.
29 The meeting will require one month's written notice to the Operator and all Non-Operators participating in the audit. The meeting
30 shall be held at the Operator's office or mutually agreed location, and shall be attended by representatives of the Parties with
31 authority to resolve such outstanding issues. Any Party who fails to attend the resolution meeting shall be bound by any resolution
32 reached at the meeting. The lead audit company will make good faith efforts to coordinate the response and positions of the
33 Non-Operator participants throughout the resolution process; however, each Non-Operator shall have the right to represent itself.
34 Attendees will make good faith efforts to resolve outstanding issues, and each Party will be required to present substantive information
35 supporting its position. A resolution meeting may be held as often as agreed to by the Parties. Issues unresolved at one meeting may
36 be discussed at subsequent meetings until each such issue is resolved.

37 If the Agreement contains no dispute resolution procedures and the audit issues cannot be resolved by negotiation, the dispute shall
38 be submitted to mediation. In such event, promptly following one Party's written request for mediation, the Parties to the dispute
39 shall choose a mutually acceptable mediator and share the costs of mediation services equally. The Parties shall each have present
40 at the mediation at least one individual who has the authority to settle the dispute. The Parties shall make reasonable efforts to
41 ensure that the mediation commences within sixty (60) days of the date of the mediation request. Notwithstanding the above, any
42 Party may file a lawsuit or complaint (1) if the Parties are unable after reasonable efforts, to commence mediation within sixty (60)
43 days of the date of the mediation request, (2) for statute of limitations reasons, or (3) to seek a preliminary injunction or other
44 provisional judicial relief, if in its sole judgment an injunction or other provisional relief is necessary to avoid irreparable damage or
45 to preserve the status quo. Despite such action, the Parties shall continue to try to resolve the dispute by mediation.

46 E. (*Optional Provision – Forfeiture Penalties*)

47 *If the Non-Operators fail to meet the deadline in Section I.5.C, any unresolved exceptions that were not addressed by the Non-
48 Operators within one (1) year following receipt of the last substantive response of the Operator shall be deemed to have been
49 withdrawn by the Non-Operators. If the Operator fails to meet the deadlines in Section I.5.B or I.5.C, any unresolved exceptions that
50 were not addressed by the Operator within one (1) year following receipt of the audit report or receipt of the last substantive response
51 of the Non-Operators, whichever is later, shall be deemed to have been granted by the Operator and adjustments shall be made,
52 without interest, to the Joint Account.*

53 6. APPROVAL BY PARTIES

54 A. GENERAL MATTERS

55 Where an approval or other agreement of the Parties or Non-Operators is expressly required under other Sections of this Accounting
56 Procedure and if the Agreement to which this Accounting Procedure is attached contains no contrary provisions in regard thereto, the
57 58
58 59

1 Operator shall notify all Non-Operators of the Operator's proposal and the agreement or approval of a majority in interest of the
2 Non-Operators shall be controlling on all Non-Operators.

3 This Section I.6.A applies to specific situations of limited duration where a Party proposes to change the accounting for charges from
4 that prescribed in this Accounting Procedure. This provision does not apply to amendments to this Accounting Procedure, which are
5 covered by Section I.6.B.

6 **B. AMENDMENTS**

7 If the Agreement to which this Accounting Procedure is attached contains no contrary provisions in regard thereto, this Accounting
8 Procedure can be amended by an affirmative vote of two (2) or more Parties, one of which is the Operator,
9 having a combined working interest of at least fifty percent (50 %), which approval shall be binding on all Parties,
10 provided, however, approval of at least one (1) Non-Operator shall be required.

11 **C. AFFILIATES**

12 For the purpose of administering the voting procedures of Sections I.6.A and I.6.B, if Parties to this Agreement are Affiliates of each
13 other, then such Affiliates shall be combined and treated as a single Party having the combined working interest or Participating
14 Interest of such Affiliates.

15 For the purposes of administering the voting procedures in Section I.6.A, if a Non-Operator is an Affiliate of the Operator, votes
16 under Section I.6.A shall require the majority in interest of the Non-Operator(s) after excluding the interest of the Operator's
17 Affiliate.

18 **II. DIRECT CHARGES**

19 The Operator shall charge the Joint Account with the following items:

20 **1. RENTALS AND ROYALTIES**

21 Lease rentals and royalties paid by the Operator, on behalf of all Parties, for the Joint Operations.

22 **2. LABOR**

23 A. Salaries and wages, including incentive compensation programs as set forth in COPAS MFI-37 ("Chargeability of Incentive
24 Compensation Programs"), for:

25 (1) Operator's field employees directly employed On-site in the conduct of Joint Operations,
26 (2) Operator's employees directly employed on Shore Base Facilities, Offshore Facilities, or other facilities serving the Joint
27 Property if such costs are not charged under Section II.6 (*Equipment and Facilities Furnished by Operator*) or are not a
28 function covered under Section III (*Overhead*),
29 (3) Operator's employees providing First Level Supervision,
30 (4) Operator's employees providing On-site Technical Services for the Joint Property if such charges are excluded from the
31 overhead rates in Section III (*Overhead*),
32 (5) Operator's employees providing Off-site Technical Services for the Joint Property if such charges are excluded from the
33 overhead rates in Section III (*Overhead*).

34 Charges for the Operator's employees identified in Section II.2.A may be made based on the employee's actual salaries and wages,
35 or in lieu thereof, a day rate representing the Operator's average salaries and wages of the employee's specific job category.

36 Charges for personnel chargeable under this Section II.2.A who are foreign nationals shall not exceed comparable compensation paid
37 to an equivalent U.S. employee pursuant to this Section II.2, unless otherwise approved by the Parties pursuant to Section
38 I.6.A (*General Matters*).

39 B. Operator's cost of holiday, vacation, sickness, and disability benefits, and other customary allowances paid to employees whose
40 salaries and wages are chargeable to the Joint Account under Section II.2.A, excluding severance payments or other termination
41 allowances. Such costs under this Section II.2.B may be charged on a "when and as-paid basis" or by "percentage assessment" on the
42 amount of salaries and wages chargeable to the Joint Account under Section II.2.A. If percentage assessment is used, the rate shall
43 be based on the Operator's cost experience.

44 C. Expenditures or contributions made pursuant to assessments imposed by governmental authority that are applicable to costs
45 chargeable to the Joint Account under Sections II.2.A and B.

1 D. Personal Expenses of personnel whose salaries and wages are chargeable to the Joint Account under Section II.2.A when the
2 expenses are incurred in connection with directly chargeable activities.

3 E. Reasonable relocation costs incurred in transferring to the Joint Property personnel whose salaries and wages are chargeable to the
4 Joint Account under Section II.2.A. Notwithstanding the foregoing, relocation costs that result from reorganization or merger of a
5 Party, or that are for the primary benefit of the Operator, shall not be chargeable to the Joint Account. Extraordinary relocation
6 costs, such as those incurred as a result of transfers from remote locations, such as Alaska or overseas, shall not be charged to the
7 Joint Account unless approved by the Parties pursuant to Section I.6.A (*General Matters*).

8 F. Training costs as specified in COPAS MFI-35 (“Charging of Training Costs to the Joint Account”) for personnel whose salaries and
9 wages are chargeable under Section II.2.A. This training charge shall include the wages, salaries, training course cost, and Personal
10 Expenses incurred during the training session. The training cost shall be charged or allocated to the property or properties directly
11 benefiting from the training. The cost of the training course shall not exceed prevailing commercial rates, where such rates are
12 available.

13 G. Operator’s current cost of established plans for employee benefits, as described in COPAS MFI-27 (“Employee Benefits Chargeable
14 to Joint Operations and Subject to Percentage Limitation”), applicable to the Operator’s labor costs chargeable to the Joint Account
15 under Sections II.2.A and B based on the Operator’s actual cost not to exceed the employee benefits limitation percentage most
16 recently recommended by COPAS.

17 H. Award payments to employees, in accordance with COPAS MFI-49 (“Awards to Employees and Contractors”) for personnel whose
18 salaries and wages are chargeable under Section II.2.A.

23 **3. MATERIAL**

25 Material purchased or furnished by the Operator for use on the Joint Property in the conduct of Joint Operations as provided under Section
26 IV (*Material Purchases, Transfers, and Dispositions*). Only such Material shall be purchased for or transferred to the Joint Property as
27 may be required for immediate use or is reasonably practical and consistent with efficient and economical operations. The accumulation
28 of surplus stocks shall be avoided.

30 **4. TRANSPORTATION**

32 A. Transportation of the Operator’s, Operator’s Affiliate’s, or contractor’s personnel necessary for Joint Operations.

34 B. Transportation of Material between the Joint Property and another property, or from the Operator’s warehouse or other storage point
35 to the Joint Property, shall be charged to the receiving property using one of the methods listed below. Transportation of Material
36 from the Joint Property to the Operator’s warehouse or other storage point shall be paid for by the Joint Property using one of the
37 methods listed below:

39 (1) If the actual trucking charge is less than or equal to the Excluded Amount the Operator may charge actual trucking cost or a
40 theoretical charge from the Railway Receiving Point to the Joint Property. The basis for the theoretical charge is the per
41 hundred weight charge plus fuel surcharges from the Railway Receiving Point to the Joint Property. The Operator shall
42 consistently apply the selected alternative.

44 (2) If the actual trucking charge is greater than the Excluded Amount, the Operator shall charge Equalized Freight. Accessorial
45 charges such as loading and unloading costs, split pick-up costs, detention, call out charges, and permit fees shall be charged
46 directly to the Joint Property and shall not be included when calculating the Equalized Freight.

48 **5. SERVICES**

50 The cost of contract services, equipment, and utilities used in the conduct of Joint Operations, except for contract services, equipment, and
51 utilities covered by Section III (*Overhead*), or Section II.7 (*Affiliates*), or excluded under Section II.9 (*Legal Expense*). Awards paid to
52 contractors shall be chargeable pursuant to COPAS MFI-49 (“Awards to Employees and Contractors”).

54 The costs of third party Technical Services are chargeable to the extent excluded from the overhead rates under Section III (*Overhead*).

56 **6. EQUIPMENT AND FACILITIES FURNISHED BY OPERATOR**

58 In the absence of a separately negotiated agreement, equipment and facilities furnished by the Operator will be charged as follows:

60 A. The Operator shall charge the Joint Account for use of Operator-owned equipment and facilities, including but not limited to
61 production facilities, Shore Base Facilities, Offshore Facilities, and Field Offices, at rates commensurate with the costs of ownership
62 and operation. The cost of Field Offices shall be chargeable to the extent the Field Offices provide direct service to personnel who
63 are chargeable pursuant to Section II.2.A (*Labor*). Such rates may include labor, maintenance, repairs, other operating expense,
64 insurance, taxes, depreciation using straight line depreciation method, and interest on gross investment less accumulated depreciation
65 not to exceed ten percent (10 %) per annum; provided, however, depreciation shall not be charged when the

1 equipment and facilities investment have been fully depreciated. The rate may include an element of the estimated cost for
2 abandonment, reclamation, and dismantlement. Such rates shall not exceed the average commercial rates currently prevailing in the
3 immediate area of the Joint Property.

4

5 B. In lieu of charges in Section II.6.A above, the Operator may elect to use average commercial rates prevailing in the immediate area
6 of the Joint Property, less twenty percent (20%). If equipment and facilities are charged under this Section II.6.B, the Operator shall
7 adequately document and support commercial rates and shall periodically review and update the rate and the supporting
8 documentation. For automotive equipment, the Operator may elect to use rates published by the Petroleum Motor Transport
9 Association (PMTA) or such other organization recognized by COPAS as the official source of rates.

10 **7. AFFILIATES**

11

12 A. Charges for an Affiliate's goods and/or services used in operations requiring an AFE or other authorization from the Non-Operators
13 may be made without the approval of the Parties provided (i) the Affiliate is identified and the Affiliate goods and services are
14 specifically detailed in the approved AFE or other authorization, and (ii) the total costs for such Affiliate's goods and services billed
15 to such individual project do not exceed \$ 50,000.00. If the total costs for an Affiliate's goods and services charged to such
16 individual project are not specifically detailed in the approved AFE or authorization or exceed such amount, charges for such
17 Affiliate shall require approval of the Parties, pursuant to Section I.6.A (*General Matters*).

18

19 B. For an Affiliate's goods and/or services used in operations not requiring an AFE or other authorization from the Non-Operators,
20 charges for such Affiliate's goods and services shall require approval of the Parties, pursuant to Section I.6.A (*General Matters*), if the
21 charges exceed \$ 50,000.00 in a given calendar year.

22

23 C. The cost of the Affiliate's goods or services shall not exceed average commercial rates prevailing in the area of the Joint Property,
24 unless the Operator obtains the Non-Operators' approval of such rates. The Operator shall adequately document and support
25 commercial rates and shall periodically review and update the rate and the supporting documentation; provided, however,
26 documentation of commercial rates shall not be required if the Operator obtains Non-Operator approval of its Affiliate's rates or
27 charges prior to billing Non-Operators for such Affiliate's goods and services. Notwithstanding the foregoing, direct charges for
28 Affiliate-owned communication facilities or systems shall be made pursuant to Section II.12 (*Communications*).

29

30 If the Parties fail to designate an amount in Sections II.7.A or II.7.B, in each instance the amount deemed adopted by the Parties as a
31 result of such omission shall be the amount established as the Operator's expenditure limitation in the Agreement. If the Agreement
32 does not contain an Operator's expenditure limitation, the amount deemed adopted by the Parties as a result of such omission shall be
33 zero dollars (\$ 0.00).

34 **8. DAMAGES AND LOSSES TO JOINT PROPERTY**

35 All costs or expenses necessary for the repair or replacement of Joint Property resulting from damages or losses incurred, except to the
36 extent such damages or losses result from a Party's or Parties' gross negligence or willful misconduct, in which case such Party or Parties
37 shall be solely liable.

38 The Operator shall furnish the Non-Operator written notice of damages or losses incurred as soon as practicable after a report has been
39 received by the Operator.

40 **9. LEGAL EXPENSE**

41 Recording fees and costs of handling, settling, or otherwise discharging litigation, claims, and liens incurred in or resulting from
42 operations under the Agreement, or necessary to protect or recover the Joint Property, to the extent permitted under the Agreement. Costs
43 of the Operator's or Affiliate's legal staff or outside attorneys, including fees and expenses, are not chargeable unless approved by the
44 Parties pursuant to Section I.6.A (*General Matters*) or otherwise provided for in the Agreement.

45 Notwithstanding the foregoing paragraph, costs for procuring abstracts, fees paid to outside attorneys for title examinations (including
46 preliminary, supplemental, shut-in royalty opinions, division order title opinions), and curative work shall be chargeable to the extent
47 permitted as a direct charge in the Agreement.

48 **10. TAXES AND PERMITS**

49 All taxes and permitting fees of every kind and nature, assessed or levied upon or in connection with the Joint Property, or the production
50 therefrom, and which have been paid by the Operator for the benefit of the Parties, including penalties and interest, except to the extent the
51 penalties and interest result from the Operator's gross negligence or willful misconduct.

52 If ad valorem taxes paid by the Operator are based in whole or in part upon separate valuations of each Party's working interest, then
53 notwithstanding any contrary provisions, the charges to the Parties will be made in accordance with the tax value generated by each Party's
54 working interest.

1 Costs of tax consultants or advisors, the Operator's employees, or Operator's Affiliate employees in matters regarding ad valorem or other
2 tax matters, are not permitted as direct charges unless approved by the Parties pursuant to Section I.6.A (*General Matters*).
3

4 Charges to the Joint Account resulting from sales/use tax audits, including extrapolated amounts and penalties and interest, are permitted,
5 provided the Non-Operator shall be allowed to review the invoices and other underlying source documents which served as the basis for
6 tax charges and to determine that the correct amount of taxes were charged to the Joint Account. If the Non-Operator is not permitted to
7 review such documentation, the sales/use tax amount shall not be directly charged unless the Operator can conclusively document the
8 amount owed by the Joint Account.
9

10 **11. INSURANCE**

11 Net premiums paid for insurance required to be carried for Joint Operations for the protection of the Parties. If Joint Operations are
12 conducted at locations where the Operator acts as self-insurer in regard to its worker's compensation and employer's liability insurance
13 obligation, the Operator shall charge the Joint Account manual rates for the risk assumed in its self-insurance program as regulated by the
14 jurisdiction governing the Joint Property. In the case of offshore operations in federal waters, the manual rates of the adjacent state shall be
15 used for personnel performing work On-site, and such rates shall be adjusted for offshore operations by the U.S. Longshoreman and
16 Harbor Workers (USL&H) or Jones Act surcharge, as appropriate.
17

18 **19. COMMUNICATIONS**

20 Costs of acquiring, leasing, installing, operating, repairing, and maintaining communication facilities or systems, including satellite, radio
21 and microwave facilities, between the Joint Property and the Operator's office(s) directly responsible for field operations in accordance
22 with the provisions of COPAS MFI-44 ("Field Computer and Communication Systems"). If the communications facilities or systems
23 serving the Joint Property are Operator-owned, charges to the Joint Account shall be made as provided in Section II.6 (*Equipment and*
24 *Facilities Furnished by Operator*). If the communication facilities or systems serving the Joint Property are owned by the Operator's
25 Affiliate, charges to the Joint Account shall not exceed average commercial rates prevailing in the area of the Joint Property. The Operator
26 shall adequately document and support commercial rates and shall periodically review and update the rate and the supporting
27 documentation.
28

29 **30. ECOLOGICAL, ENVIRONMENTAL, AND SAFETY**

31 Costs incurred for Technical Services and drafting to comply with ecological, environmental and safety Laws or standards recommended by
32 Occupational Safety and Health Administration (OSHA) or other regulatory authorities. All other labor and functions incurred for
33 ecological, environmental and safety matters, including management, administration, and permitting, shall be covered by Sections II.2
34 (*Labor*), II.5 (*Services*), or Section III (*Overhead*), as applicable.
35

36 Costs to provide or have available pollution containment and removal equipment plus actual costs of control and cleanup and resulting
37 responsibilities of oil and other spills as well as discharges from permitted outfalls as required by applicable Laws, or other pollution
38 containment and removal equipment deemed appropriate by the Operator for prudent operations, are directly chargeable.
39

40 **41. ABANDONMENT AND RECLAMATION**

42 Costs incurred for abandonment and reclamation of the Joint Property, including costs required by lease agreements or by Laws.
43

44 **45. OTHER EXPENDITURES**

46 Any other expenditure not covered or dealt with in the foregoing provisions of this Section II (*Direct Charges*), or in Section III
47 (*Overhead*) and which is of direct benefit to the Joint Property and is incurred by the Operator in the necessary and proper conduct of the
48 Joint Operations. Charges made under this Section II.15 shall require approval of the Parties, pursuant to Section I.6.A (*General Matters*).
49

51 **52. III. OVERHEAD**

53 As compensation for costs not specifically identified as chargeable to the Joint Account pursuant to Section II (*Direct Charges*), the Operator
54 shall charge the Joint Account in accordance with this Section III.
55

56 Functions included in the overhead rates regardless of whether performed by the Operator, Operator's Affiliates or third parties and regardless
57 of location, shall include, but not be limited to, costs and expenses of:
58

- 59 • warehousing, other than for warehouses that are jointly owned under this Agreement
- 60 • design and drafting (except when allowed as a direct charge under Sections II.13, III.1.A(ii), and III.2, Option B)
- 61 • inventory costs not chargeable under Section V (*Inventories of Controllable Material*)
- 62 • procurement
- 63 • administration
- 64 • accounting and auditing
- 65 • gas dispatching and gas chart integration

1 • human resources
2 • management
3 • supervision not directly charged under Section II.2 (*Labor*)
4 • legal services not directly chargeable under Section II.9 (*Legal Expense*)
5 • taxation, other than those costs identified as directly chargeable under Section II.10 (*Taxes and Permits*)
6 • preparation and monitoring of permits and certifications; preparing regulatory reports; appearances before or meetings with
7 governmental agencies or other authorities having jurisdiction over the Joint Property, other than On-site inspections; reviewing,
8 interpreting, or submitting comments on or lobbying with respect to Laws or proposed Laws.

9 Overhead charges shall include the salaries or wages plus applicable payroll burdens, benefits, and Personal Expenses of personnel performing
10 overhead functions, as well as office and other related expenses of overhead functions.
11

12 **1. OVERHEAD—DRILLING AND PRODUCING OPERATIONS**
13

14 As compensation for costs incurred but not chargeable under Section II (*Direct Charges*) and not covered by other provisions of this
15 Section III, the Operator shall charge on either:
16

17 **(Alternative 1)** Fixed Rate Basis, Section III.1.B.
18 **(Alternative 2)** Percentage Basis, Section III.1.C.
19

20 **A. TECHNICAL SERVICES**
21

22 (i) Except as otherwise provided in Section II.13 (*Ecological, Environmental, and Safety*) and Section III.2 (*Overhead – Major
23 Construction and Catastrophe*), or by approval of the Parties pursuant to Section I.6.A (*General Matters*), the salaries, wages,
24 related payroll burdens and benefits, and Personal Expenses for **On-site** Technical Services, including third party Technical
25 Services:
26

27 **(Alternative 1 – Direct)** shall be charged direct to the Joint Account.
28

29 **(Alternative 2 – Overhead)** shall be covered by the overhead rates.
30

31 (ii) Except as otherwise provided in Section II.13 (*Ecological, Environmental, and Safety*) and Section III.2 (*Overhead – Major
32 Construction and Catastrophe*), or by approval of the Parties pursuant to Section I.6.A (*General Matters*), the salaries, wages,
33 related payroll burdens and benefits, and Personal Expenses for **Off-site** Technical Services, including third party Technical
34 Services:
35

36 **(Alternative 1 – All Overhead)** shall be covered by the overhead rates.
37

38 **(Alternative 2 – All Direct)** shall be charged direct to the Joint Account.
39

40 **(Alternative 3 – Drilling Direct)** shall be charged direct to the Joint Account, only to the extent such Technical Services
41 are directly attributable to drilling, redrilling, deepening, or sidetracking operations, through completion, temporary
42 abandonment, or abandonment if a dry hole. Off-site Technical Services for all other operations, including workover,
43 recompletion, abandonment of producing wells, and the construction or expansion of fixed assets not covered by Section
44 III.2 (*Overhead - Major Construction and Catastrophe*) shall be covered by the overhead rates.
45

46 Notwithstanding anything to the contrary in this Section III, Technical Services provided by Operator's Affiliates are subject to limitations
47 set forth in Section II.7 (*Affiliates*). Charges for Technical personnel performing non-technical work shall not be governed by this Section
48 III.1.A, but instead governed by other provisions of this Accounting Procedure relating to the type of work being performed.
49

50 **B. OVERHEAD—FIXED RATE BASIS**
51

52 (1) The Operator shall charge the Joint Account at the following rates per well per month:
53

54 Drilling Well Rate per month \$ 25,000 (prorated for less than a full month)
55

56 Producing Well Rate per month \$ 2,500
57

58 (2) Application of Overhead—Drilling Well Rate shall be as follows:
59

60 (a) Charges for onshore drilling wells shall begin on the spud date and terminate on the date the drilling and/or completion
61 equipment used on the well is released, whichever occurs later. Charges for offshore and inland waters drilling wells shall
62 begin on the date the drilling or completion equipment arrives on location and terminate on the date the drilling or completion
63 equipment moves off location, or is released, whichever occurs first. No charge shall be made during suspension of drilling
64 and/or completion operations for fifteen (15) or more consecutive calendar days.
65

- (b) Charges for any well undergoing any type of workover, recompletion, and/or abandonment for a period of five (5) or more consecutive work-days shall be made at the Drilling Well Rate. Such charges shall be applied for the period from date operations, with rig or other units used in operations, commence through date of rig or other unit release, except that no charges shall be made during suspension of operations for fifteen (15) or more consecutive calendar days.
- (3) Application of Overhead—Producing Well Rate shall be as follows:
 - (a) An active well that is produced, injected into for recovery or disposal, or used to obtain water supply to support operations for any portion of the month shall be considered as a one-well charge for the entire month.
 - (b) Each active completion in a multi-completed well shall be considered as a one-well charge provided each completion is considered a separate well by the governing regulatory authority.
 - (c) A one-well charge shall be made for the month in which plugging and abandonment operations are completed on any well, unless the Drilling Well Rate applies, as provided in Sections III.1.B.(2)(a) or (b). This one-well charge shall be made whether or not the well has produced.
 - (d) An active gas well shut in because of overproduction or failure of a purchaser, processor, or transporter to take production shall be considered as a one-well charge provided the gas well is directly connected to a permanent sales outlet.
 - (e) Any well not meeting the criteria set forth in Sections III.1.B.(3) (a), (b), (c), or (d) shall not qualify for a producing overhead charge.
- (4) The well rates shall be adjusted on the first day of April each year following the effective date of the Agreement; provided, however, if this Accounting Procedure is attached to or otherwise governing the payout accounting under a farmout agreement, the rates shall be adjusted on the first day of April each year following the effective date of such farmout agreement. The adjustment shall be computed by applying the adjustment factor most recently published by COPAS. The adjusted rates shall be the initial or amended rates agreed to by the Parties increased or decreased by the adjustment factor described herein, for each year from the effective date of such rates, in accordance with COPAS MFI-47 (“Adjustment of Overhead Rates”).

C. OVERHEAD PERCENTAGE BASIS

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

(a) Development Rate _____ percent (_____) % of the cost of development of the Joint Property, exclusive of costs provided under Section II.9 (*Legal Expense*) and all Material salvage credits.

(b) Operating Rate _____ percent (_____) % of the cost of operating the Joint Property, exclusive of costs provided under Sections II.1 (*Rentals and Royalties*) and II.9 (*Legal Expense*); all Material salvage credits; the value of substances purchased for enhanced recovery; all property and ad valorem taxes, and any other taxes and assessments that 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:

(a) The Development Rate shall be applied to all costs in connection with:

- [i] drilling, redrilling, sidetracking, or deepening of a well
- [ii] a well undergoing plugback or workover operations for a period of five (5) or more consecutive work days
- [iii] preliminary expenditures necessary in preparation for drilling
- [iv] expenditures incurred in abandoning when the well is not completed as a producer
- [v] construction or installation of fixed assets, the expansion of fixed assets and any other project clearly discernible as a fixed asset, other than Major Construction or Catastrophe as defined in Section III.2 (*Overhead Major Construction and Catastrophe*).

(b) The Operating Rate shall be applied to all other costs in connection with Joint Operations, except those subject to Section III.2 (*Overhead Major Construction and Catastrophe*).

2. OVERHEAD—MAJOR CONSTRUCTION AND CATASTROPHE

To compensate the Operator for overhead costs incurred in connection with a Major Construction project or Catastrophe, the Operator shall either negotiate a rate prior to the beginning of the project, or shall charge the Joint Account for overhead based on the following rates for any Major Construction project in excess of the Operator's expenditure limit under the Agreement, or for any Catastrophe regardless of the amount. If the Agreement to which this Accounting Procedure is attached does not contain an expenditure limit, Major Construction Overhead shall be assessed for any single Major Construction project costing in excess of \$100,000 gross.

1 Major Construction shall mean the construction and installation of fixed assets, the expansion of fixed assets, and any other project clearly
2 discernible as a fixed asset required for the development and operation of the Joint Property, or in the dismantlement, abandonment,
3 removal, and restoration of platforms, production equipment, and other operating facilities.

4 Catastrophe is defined as a sudden calamitous event bringing damage, loss, or destruction to property or the environment, such as an oil
5 spill, blowout, explosion, fire, storm, hurricane, or other disaster. The overhead rate shall be applied to those costs necessary to restore the
6 Joint Property to the equivalent condition that existed prior to the event.
7

8 A. If the Operator absorbs the engineering, design and drafting costs related to the project:
9

10 (1) 5.00 % of total costs if such costs are less than \$100,000; plus
11

12 (2) 3.00 % of total costs in excess of \$100,000 but less than \$1,000,000; plus
13

14 (3) 2.00 % of total costs in excess of \$1,000,000.
15

16 B. If the Operator charges engineering, design and drafting costs related to the project directly to the Joint Account:
17

18 (1) 5.00 % of total costs if such costs are less than \$100,000; plus
19

20 (2) 3.00 % of total costs in excess of \$100,000 but less than \$1,000,000; plus
21

22 (3) 2.00 % of total costs in excess of \$1,000,000.
23

24 Total cost shall mean the gross cost of any one project. For the purpose of this paragraph, the component parts of a single Major
25 Construction project shall not be treated separately, and the cost of drilling and workover wells and purchasing and installing pumping
26 units and downhole artificial lift equipment shall be excluded. For Catastrophes, the rates shall be applied to all costs associated with each
27 single occurrence or event.
28

29 On each project, the Operator shall advise the Non-Operator(s) in advance which of the above options shall apply.
30

31 For the purposes of calculating Catastrophe Overhead, the cost of drilling relief wells, substitute wells, or conducting other well operations
32 directly resulting from the catastrophic event shall be included. Expenditures to which these rates apply shall not be reduced by salvage or
33 insurance recoveries. Expenditures that qualify for Major Construction or Catastrophe Overhead shall not qualify for overhead under any
34 other overhead provisions.
35

36 In the event of any conflict between the provisions of this Section III.2 and the provisions of Sections II.2 (*Labor*), II.5 (*Services*), or II.7
37 (*Affiliates*), the provisions of this Section III.2 shall govern.
38

39 **3. AMENDMENT OF OVERHEAD RATES** 40

41 The overhead rates provided for in this Section III may be amended from time to time if, in practice, the rates are found to be insufficient
42 or excessive, in accordance with the provisions of Section I.6.B (*Amendments*).
43

45 **IV. MATERIAL PURCHASES, TRANSFERS, AND DISPOSITIONS** 46

47 The Operator is responsible for Joint Account Material and shall make proper and timely charges and credits for direct purchases, transfers, and
48 dispositions. The Operator shall provide all Material for use in the conduct of Joint Operations; however, Material may be supplied by the Non-
49 Operators, at the Operator's option. Material furnished by any Party shall be furnished without any express or implied warranties as to quality,
50 fitness for use, or any other matter.
51

52 **1. DIRECT PURCHASES** 53

54 Direct purchases shall be charged to the Joint Account at the price paid by the Operator after deduction of all discounts received. The
55 Operator shall make good faith efforts to take discounts offered by suppliers, but shall not be liable for failure to take discounts except to
56 the extent such failure was the result of the Operator's gross negligence or willful misconduct. A direct purchase shall be deemed to occur
57 when an agreement is made between an Operator and a third party for the acquisition of Material for a specific well site or location.
58 Material provided by the Operator under "vendor stocking programs," where the initial use is for a Joint Property and title of the Material
59 does not pass from the manufacturer, distributor, or agent until usage, is considered a direct purchase. If Material is found to be defective
60 or is returned to the manufacturer, distributor, or agent for any other reason, credit shall be passed to the Joint Account within sixty (60)
61 days after the Operator has received adjustment from the manufacturer, distributor, or agent.
62

1 **2. TRANSFERS**

2 A transfer is determined to occur when the Operator (i) furnishes Material from a storage facility or from another operated property, (ii) has
3 assumed liability for the storage costs and changes in value, and (iii) has previously secured and held title to the transferred Material.
4 Similarly, the removal of Material from the Joint Property to a storage facility or to another operated property is also considered a transfer;
5 provided, however, Material that is moved from the Joint Property to a storage location for safe-keeping pending disposition may remain
6 charged to the Joint Account and is not considered a transfer. Material shall be disposed of in accordance with Section IV.3 (*Disposition of*
7 *Surplus*) and the Agreement to which this Accounting Procedure is attached.

9 **A. PRICING**

11 The value of Material transferred to/from the Joint Property should generally reflect the market value on the date of physical transfer.
12 Regardless of the pricing method used, the Operator shall make available to the Non-Operators sufficient documentation to verify the
13 Material valuation. When higher than specification grade or size tubulars are used in the conduct of Joint Operations, the Operator
14 shall charge the Joint Account at the equivalent price for well design specification tubulars, unless such higher specification grade or
15 sized tubulars are approved by the Parties pursuant to Section I.6.A (*General Matters*). Transfers of new Material will be priced
16 using one of the following pricing methods; provided, however, the Operator shall use consistent pricing methods, and not alternate
17 between methods for the purpose of choosing the method most favorable to the Operator for a specific transfer.

19 (1) Using published prices in effect on date of movement as adjusted by the appropriate COPAS Historical Price Multiplier (HPM)
20 or prices provided by the COPAS Computerized Equipment Pricing System (CEPS).
22 (a) For oil country tubulars and line pipe, the published price shall be based upon eastern mill carload base prices (Houston,
23 Texas, for special end) adjusted as of date of movement, plus transportation cost as defined in Section IV.2.B (*Freight*).
25 (b) For other Material, the published price shall be the published list price in effect at date of movement, as listed by a Supply
26 Store nearest the Joint Property where like Material is normally available, or point of manufacture plus transportation
27 costs as defined in Section IV.2.B (*Freight*).
29 (2) Based on a price quotation from a vendor that reflects a current realistic acquisition cost.
31 (3) Based on the amount paid by the Operator for like Material in the vicinity of the Joint Property within the previous twelve (12)
32 months from the date of physical transfer.
34 (4) As agreed to by the Participating Parties for Material being transferred to the Joint Property, and by the Parties owning the
35 Material for Material being transferred from the Joint Property.

37 **B. FREIGHT**

39 Transportation costs shall be added to the Material transfer price using the method prescribed by the COPAS Computerized
40 Equipment Pricing System (CEPS). If not using CEPS, transportation costs shall be calculated as follows:

42 (1) Transportation costs for oil country tubulars and line pipe shall be calculated using the distance from eastern mill to the
43 Railway Receiving Point based on the carload weight basis as recommended by the COPAS MFI-38 ("Material Pricing
44 Manual") and other COPAS MFIs in effect at the time of the transfer.
46 (2) Transportation costs for special mill items shall be calculated from that mill's shipping point to the Railway Receiving Point.
47 For transportation costs from other than eastern mills, the 30,000-pound interstate truck rate shall be used. Transportation costs
48 for macaroni tubing shall be calculated based on the interstate truck rate per weight of tubing transferred to the Railway
49 Receiving Point.
51 (3) Transportation costs for special end tubular goods shall be calculated using the interstate truck rate from Houston, Texas, to the
52 Railway Receiving Point.
54 (4) Transportation costs for Material other than that described in Sections IV.2.B.(1) through (3), shall be calculated from the
55 Supply Store or point of manufacture, whichever is appropriate, to the Railway Receiving Point

57 Regardless of whether using CEPS or manually calculating transportation costs, transportation costs from the Railway Receiving Point
58 to the Joint Property are in addition to the foregoing, and may be charged to the Joint Account based on actual costs incurred. All
59 transportation costs are subject to Equalized Freight as provided in Section II.4 (*Transportation*) of this Accounting Procedure.

61 **C. TAXES**

63 Sales and use taxes shall be added to the Material transfer price using either the method contained in the COPAS Computerized
64 Equipment Pricing System (CEPS) or the applicable tax rate in effect for the Joint Property at the time and place of transfer. In either
65 case, the Joint Account shall be charged or credited at the rate that would have governed had the Material been a direct purchase.

1 D. CONDITION

2 (1) Condition "A" – New and unused Material in sound and serviceable condition shall be charged at one hundred percent (100%)
3 of the price as determined in Sections IV.2.A (*Pricing*), IV.2.B (*Freight*), and IV.2.C (*Taxes*). Material transferred from the
4 Joint Property that was not placed in service shall be credited as charged without gain or loss; provided, however, any unused
5 Material that was charged to the Joint Account through a direct purchase will be credited to the Joint Account at the original
6 cost paid less restocking fees charged by the vendor. New and unused Material transferred from the Joint Property may be
7 credited at a price other than the price originally charged to the Joint Account provided such price is approved by the Parties
8 owning such Material, pursuant to Section I.6.A (*General Matters*). All refurbishing costs required or necessary to return the
9 Material to original condition or to correct handling, transportation, or other damages will be borne by the divesting property.
10 The Joint Account is responsible for Material preparation, handling, and transportation costs for new and unused Material
11 charged to the Joint Property either through a direct purchase or transfer. Any preparation costs incurred, including any internal
12 or external coating and wrapping, will be credited on new Material provided these services were not repeated for such Material
13 for the receiving property.

14

15 (2) Condition "B" – Used Material in sound and serviceable condition and suitable for reuse without reconditioning shall be priced
16 by multiplying the price determined in Sections IV.2.A (*Pricing*), IV.2.B (*Freight*), and IV.2.C (*Taxes*) by seventy-five percent
17 (75%).

18 Except as provided in Section IV.2.D(3), all reconditioning costs required to return the Material to Condition "B" or to correct
19 handling, transportation or other damages will be borne by the divesting property.

20 If the Material was originally charged to the Joint Account as used Material and placed in service for the Joint Property, the
21 Material will be credited at the price determined in Sections IV.2.A (*Pricing*), IV.2.B (*Freight*), and IV.2.C (*Taxes*) multiplied
22 by sixty-five percent (65%).

23 Unless otherwise agreed to by the Parties that paid for such Material, used Material transferred from the Joint Property that was
24 not placed in service on the property shall be credited as charged without gain or loss.

25 (3) Condition "C" – Material that is not in sound and serviceable condition and not suitable for its original function until after
26 reconditioning shall be priced by multiplying the price determined in Sections IV.2.A (*Pricing*), IV.2.B (*Freight*), and IV.2.C
27 (*Taxes*) by fifty percent (50%).

28 The cost of reconditioning may be charged to the receiving property to the extent Condition "C" value, plus cost of
29 reconditioning, does not exceed Condition "B" value.

30 (4) Condition "D" – Material that (i) is no longer suitable for its original purpose but useable for some other purpose, (ii) is
31 obsolete, or (iii) does not meet original specifications but still has value and can be used in other applications as a substitute for
32 items with different specifications, is considered Condition "D" Material. Casing, tubing, or drill pipe used as line pipe shall be
33 priced as Grade A and B seamless line pipe of comparable size and weight. Used casing, tubing, or drill pipe utilized as line
34 pipe shall be priced at used line pipe prices. Casing, tubing, or drill pipe used as higher pressure service lines than standard line
35 pipe, e.g., power oil lines, shall be priced under normal pricing procedures for casing, tubing, or drill pipe. Upset tubular goods
36 shall be priced on a non-upset basis. For other items, the price used should result in the Joint Account being charged or credited
37 with the value of the service rendered or use of the Material, or as agreed to by the Parties pursuant to Section 1.6.A (*General
38 Matters*).

39 (5) Condition "E" – Junk shall be priced at prevailing scrap value prices.

40 E. OTHER PRICING PROVISIONS

41 (1) Preparation Costs

42 Subject to Section II (*Direct Charges*) and Section III (*Overhead*) of this Accounting Procedure, costs incurred by the Operator
43 in making Material serviceable including inspection, third party surveillance services, and other similar services will be charged
44 to the Joint Account at prices which reflect the Operator's actual costs of the services. Documentation must be provided to the
45 Non-Operators upon request to support the cost of service. New coating and/or wrapping shall be considered a component of
46 the Materials and priced in accordance with Sections IV.1 (*Direct Purchases*) or IV.2.A (*Pricing*), as applicable. No charges or
47 credits shall be made for used coating or wrapping. Charges and credits for inspections shall be made in accordance with
48 COPAS MFI-38 ("Material Pricing Manual").

49 (2) Loading and Unloading Costs

50 Loading and unloading costs related to the movement of the Material to the Joint Property shall be charged in accordance with
51 the methods specified in COPAS MFI-38 ("Material Pricing Manual").

1 **3. DISPOSITION OF SURPLUS**

2 Surplus Material is that Material, whether new or used, that is no longer required for Joint Operations. The Operator may purchase, but
3 shall be under no obligation to purchase, the interest of the Non-Operators in surplus Material.

5 Dispositions for the purpose of this procedure are considered to be the relinquishment of title of the Material from the Joint Property to
6 either a third party, a Non-Operator, or to the Operator. To avoid the accumulation of surplus Material, the Operator should make good
7 faith efforts to dispose of surplus within twelve (12) months through buy/sale agreements, trade, sale to a third party, division in kind, or
8 other dispositions as agreed to by the Parties.

10 Disposal of surplus Materials shall be made in accordance with the terms of the Agreement to which this Accounting Procedure is
11 attached. If the Agreement contains no provisions governing disposal of surplus Material, the following terms shall apply:

13 • The Operator may, through a sale to an unrelated third party or entity, dispose of surplus Material having a gross sale value that
14 is less than or equal to the Operator's expenditure limit as set forth in the Agreement to which this Accounting Procedure is
15 attached without the prior approval of the Parties owning such Material.

17 • If the gross sale value exceeds the Agreement expenditure limit, the disposal must be agreed to by the Parties owning such
18 Material.

20 • Operator may purchase surplus Condition "A" or "B" Material without approval of the Parties owning such Material, based on
21 the pricing methods set forth in Section IV.2 (*Transfers*).

23 • Operator may purchase Condition "C" Material without prior approval of the Parties owning such Material if the value of the
24 Materials, based on the pricing methods set forth in Section IV.2 (*Transfers*), is less than or equal to the Operator's expenditure
25 limitation set forth in the Agreement. The Operator shall provide documentation supporting the classification of the Material as
26 Condition C.

28 • Operator may dispose of Condition "D" or "E" Material under procedures normally utilized by Operator without prior approval
29 of the Parties owning such Material.

31 **4. SPECIAL PRICING PROVISIONS**

33 **A. PREMIUM PRICING**

35 Whenever Material is available only at inflated prices due to national emergencies, strikes, government imposed foreign trade
36 restrictions, or other unusual causes over which the Operator has no control, for direct purchase the Operator may charge the Joint
37 Account for the required Material at the Operator's actual cost incurred in providing such Material, making it suitable for use, and
38 moving it to the Joint Property. Material transferred or disposed of during premium pricing situations shall be valued in accordance
39 with Section IV.2 (*Transfers*) or Section IV.3 (*Disposition of Surplus*), as applicable.

41 **B. SHOP-MADE ITEMS**

43 Items fabricated by the Operator's employees, or by contract laborers under the direction of the Operator, shall be priced using the
44 value of the Material used to construct the item plus the cost of labor to fabricate the item. If the Material is from the Operator's
45 scrap or junk account, the Material shall be priced at either twenty-five percent (25%) of the current price as determined in Section
46 IV.2.A (*Pricing*) or scrap value, whichever is higher. In no event shall the amount charged exceed the value of the item
47 commensurate with its use.

49 **C. MILL REJECTS**

51 Mill rejects purchased as "limited service" casing or tubing shall be priced at eighty percent (80%) of K-55/J-55 price as determined in
52 Section IV.2 (*Transfers*). Line pipe converted to casing or tubing with casing or tubing couplings attached shall be priced as K-55/J-
53 55 casing or tubing at the nearest size and weight.

56 **V. INVENTORIES OF CONTROLLABLE MATERIAL**

59 The Operator shall maintain records of Controllable Material charged to the Joint Account, with sufficient detail to perform physical inventories.

61 Adjustments to the Joint Account by the Operator resulting from a physical inventory of Controllable Material shall be made within twelve (12)
62 months following the taking of the inventory or receipt of Non-Operator inventory report. Charges and credits for overages or shortages will be
63 valued for the Joint Account in accordance with Section IV.2 (*Transfers*) and shall be based on the Condition "B" prices in effect on the date of
64 physical inventory unless the inventorying Parties can provide sufficient evidence another Material condition applies.

1 **1. DIRECTED INVENTORIES**

2 Physical inventories shall be performed by the Operator upon written request of a majority in working interests of the Non-Operators
3 (hereinafter, "directed inventory"); provided, however, the Operator shall not be required to perform directed inventories more frequently
4 than once every five (5) years. Directed inventories shall be commenced within one hundred eighty (180) days after the Operator receives
5 written notice that a majority in interest of the Non-Operators has requested the inventory. All Parties shall be governed by the results of
6 any directed inventory.

7 Expenses of directed inventories will be borne by the Joint Account; provided, however, costs associated with any post-report follow-up
8 work in settling the inventory will be absorbed by the Party incurring such costs. The Operator is expected to exercise judgment in keeping
9 expenses within reasonable limits. Any anticipated disproportionate or extraordinary costs should be discussed and agreed upon prior to
10 commencement of the inventory. Expenses of directed inventories may include the following:

11 A. A per diem rate for each inventory person, representative of actual salaries, wages, and payroll burdens and benefits of the personnel
12 performing the inventory or a rate agreed to by the Parties pursuant to Section I.6.A (*General Matters*). The per diem rate shall also
13 be applied to a reasonable number of days for pre-inventory work and report preparation.

14 B. Actual transportation costs and Personal Expenses for the inventory team.

15 C. Reasonable charges for report preparation and distribution to the Non-Operators.

16 **2. NON-DIRECTED INVENTORIES**

17 A. OPERATOR INVENTORIES

18 Physical inventories that are not requested by the Non-Operators may be performed by the Operator, at the Operator's discretion. The
19 expenses of conducting such Operator-initiated inventories shall not be charged to the Joint Account.

20 B. NON-OPERATOR INVENTORIES

21 Subject to the terms of the Agreement to which this Accounting Procedure is attached, the Non-Operators may conduct a physical
22 inventory at reasonable times at their sole cost and risk after giving the Operator at least ninety (90) days prior written notice. The
23 Non-Operator inventory report shall be furnished to the Operator in writing within ninety (90) days of completing the inventory
24 fieldwork.

25 C. SPECIAL INVENTORIES

26 The expense of conducting inventories other than those described in Sections V.1 (*Directed Inventories*), V.2.A (*Operator
27 Inventories*), or V.2.B (*Non-Operator Inventories*), shall be charged to the Party requesting such inventory; provided, however,
28 inventories required due to a change of Operator shall be charged to the Joint Account in the same manner as described in Section
29 V.1 (*Directed Inventories*).

EXHIBIT "D"

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"

Gas Balancing Agreement

I. DEFINITIONS:

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.
- (l) "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. Right to Take All Gas Produced

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 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. Events Occasioning Cash Settlements

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. Quantity of Gas

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 Platts Inside FERC's Gas Market Report ("Platts IFERC") Dominion Transmission Inc., Appalachia Index 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. Proceeds for Liquefiable Hydrocarbons Not Included

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. Calculation, Collection and Distribution of Payments

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 party shall be determined by apportioning the total amount to be received by all Underproduced parties from all Overproduced parties among all Underproduced parties in proportion to the total sum to be received by each Underproduced party as a percent of the total sum to be received by all Underproduced parties. The amount to be paid by each Overproduced party to each Underproduced party shall be determined by apportioning the total amount to be 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 to all Underproduced parties as a percent of the total sum to be paid by all Overproduced parties to all Underproduced parties.

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

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. TERM

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. AUDITS

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"

Attachment 2

Attachment 2 Exhibit 1

SUNSBURY

SWITZERLAND

Fuch A 2H

Monroe

ADAMS

SALEM

GREEN

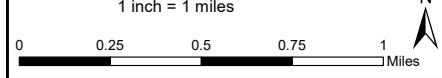
Eclipse Resources

Exhibit 1
Crawford A & B Units
Cross-Section

Date: 5/26/2020

Coordinate System:
NAD 1927 StatePlane Ohio South FIPS 3402

1 inch = 1 miles



Legend

- Unit Boundary
- Township
- County

eclipse
RESOURCES



Revised 5/29/2020

Attachment 2 Exhibit 2

Geologic Cross-Section

Exhibit 2 - Crawford B Unit

Monroe County, Ohio

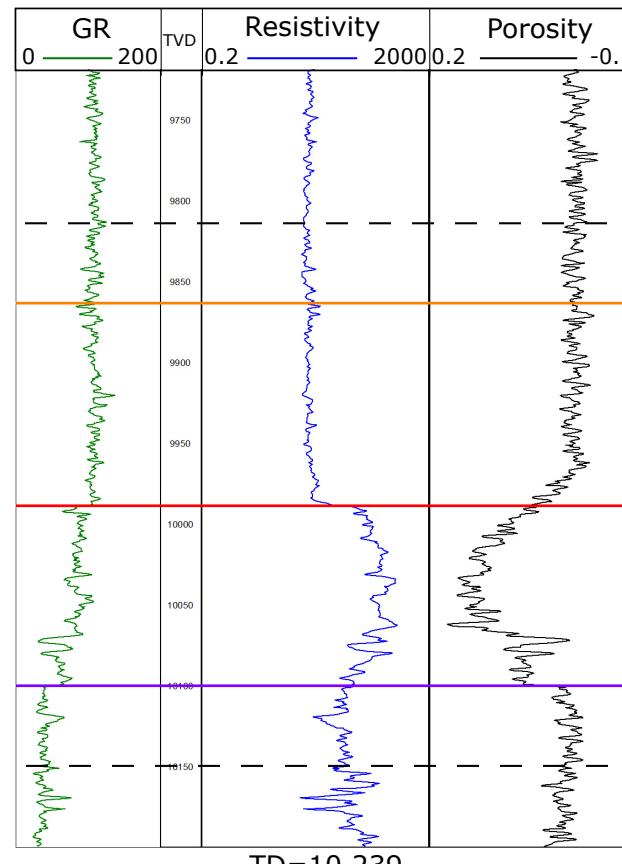
A

A'

Sawyers 6H
API: 3411124517
Eclipse Resources

Crawford B
Eclipse Resources

Fuchs A 2H
API: 3411124570
Eclipse Resources



0 miles

~4.96 miles

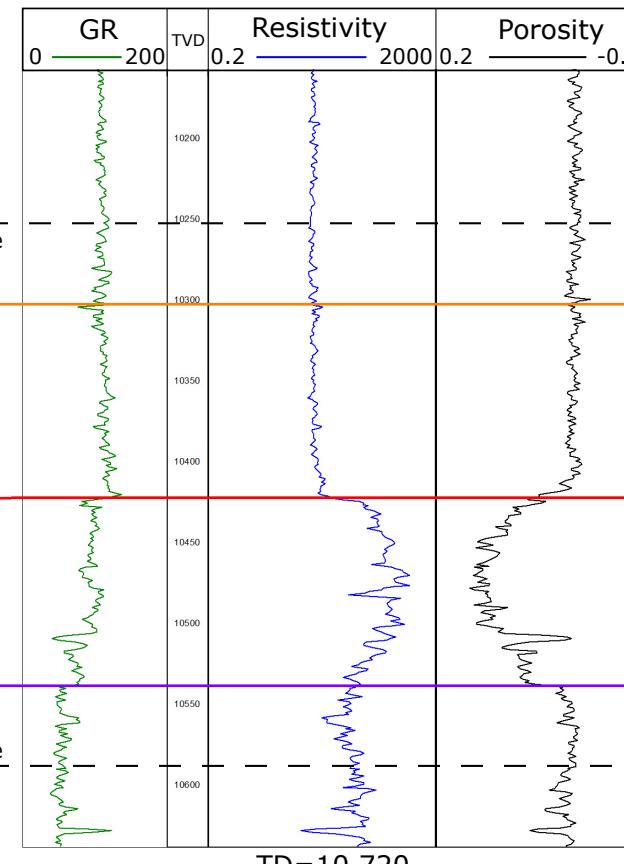
50 ft buffer zone

Utica

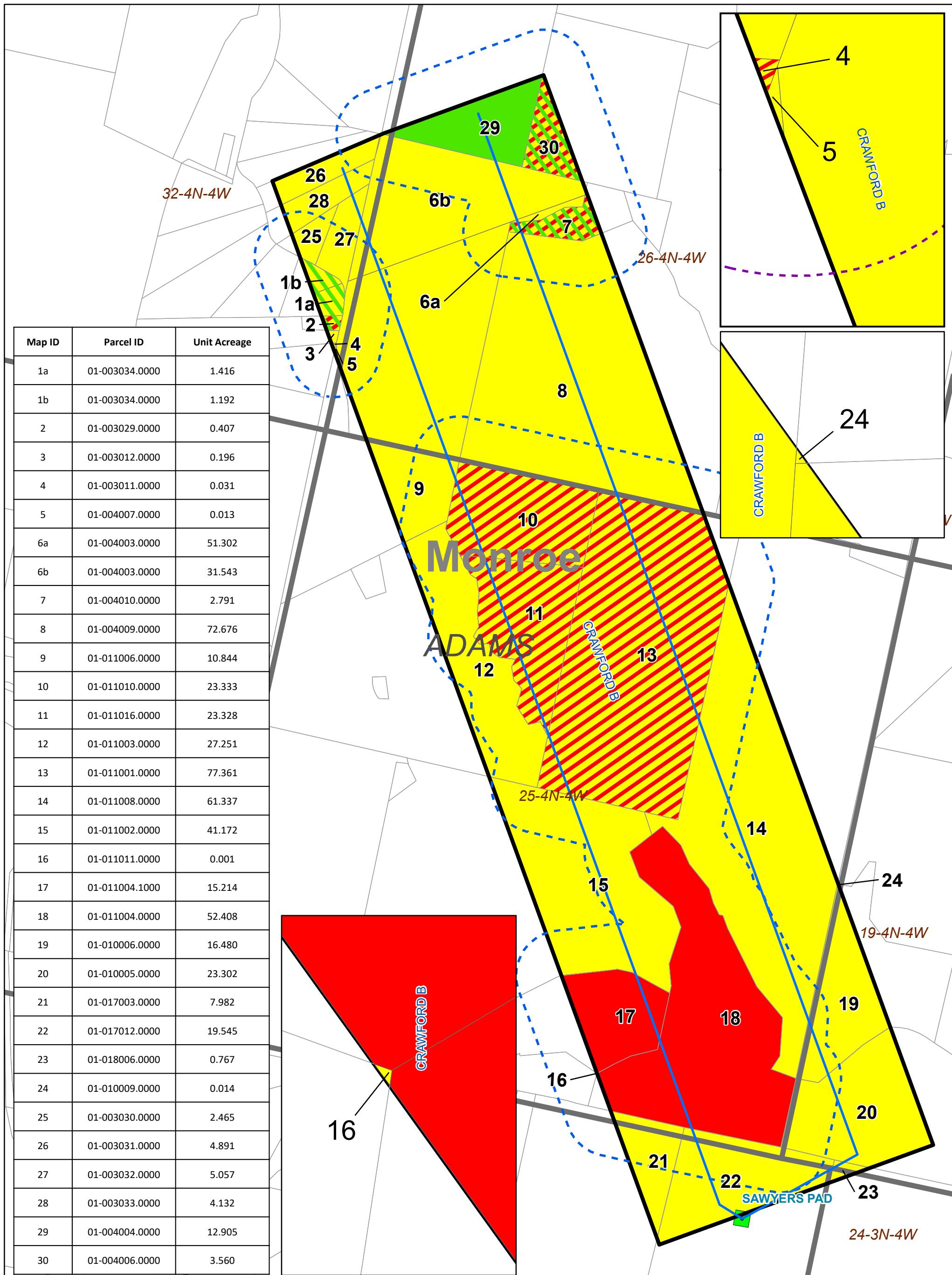
Point
Pleasant

Trenton

50 ft buffer zone



Attachment 2 Exhibit 3



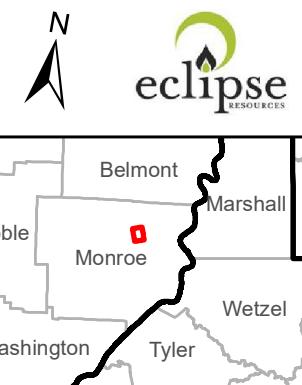
Eclipse Resources

Exhibit 3
Crawford B Unit
Unit Size: 594.916 Acres
Date: 8/3/2020 Author: GIS Department
Coordinate System: NAD 1927 StatePlane Ohio South FIPS 3402
NAD 1927 StatePlane Ohio South FIPS 3402

0 500 1,000 1,500 Feet

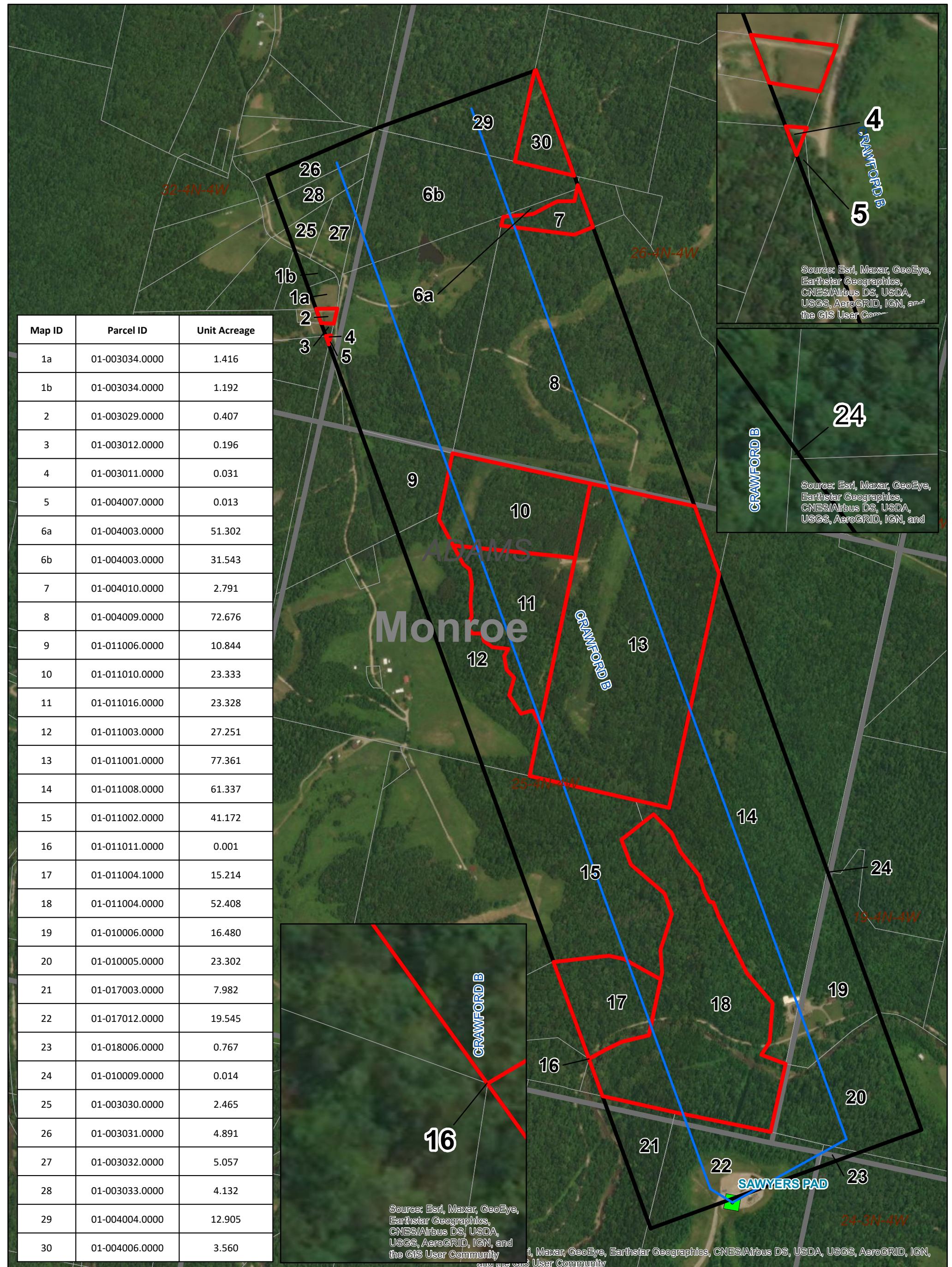
LEGEND

- Pad Site
- Lateral
- 400' Buffer
- Unit Boundary
- Leasehold and/or Committed
- Unleased
- Uncommitted Operator
- Partially Uncommitted/Committed & Partially Unleased
- Partially Unleased & Committed
- Uncommitted & Partially Unleased



Revised 8/3/2020

Attachment 2 Exhibit 4

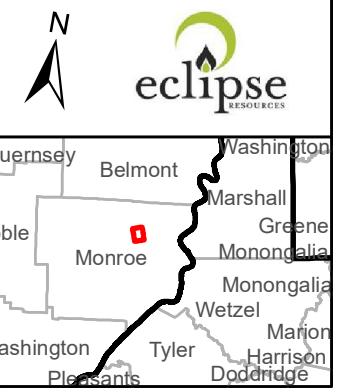


Eclipse Resources

Exhibit 4
Crawford B Unit
Unit Size: 594.916 Acres

LEGEND

- Pad Site
- Lateral
- Unit Boundary
- Unplanned/Partially Unplanned



Attachment 2 Exhibit 5

EXHIBIT 5

Crawford B UNIT

Well Information				
Well Name	Unit Lateral Length (ft)	Unit Dev. Cost (\$M)	Non-Unit Lateral Length (ft)	Non-Unitized Dev. Cost (\$M)
Crawford B3H	9,744	9,087	236	5,590
Crawford B5H	9,772	9,111	530	5,688
Total	19,516	18,198	766	11,278

Unitized Crawford B					
Well Name	Gas (Bcf)	Oil (Mbbls)	NGLs (Mbbls)	PV(10) (\$M)	Gross Production Value (\$M)
Crawford B3H	21.5	0	0	10,329	23,594
Crawford B5H	21.5	0	0	10,307	23,594
Total	43	0	0	20,636	47,188

Non-Unitized Crawford B					
Well Name	Gas (Bcf)	Oil (Mbbls)	NGLs (Mbbls)	PV(10) (\$M)	Gross Production Value (\$M)
Crawford B3H	0.52	0	0	-5,124	538
Crawford B5H	1.2	0	0	-4,671	1,210
Total	1.72	0	0	-9,795	1,748

Incremental Gain					
Well Name	Incremental Lateral Length (ft)	Gas (Bcf)	Liquids (Mbbls)	PV(10)* (\$M)	Gross Production Value (\$M)
Crawford B3H	9,508	21.0	0	10,329	23,056
Crawford B5H	9,242	20.3	0	10,307	22,384
	18,750	41.3	0	20,636	45,440

*Due to negative non-unitized PV10, incremental PV10 assumes \$0 value to non-unitized case.

EXHIBIT 5 PAGE 2

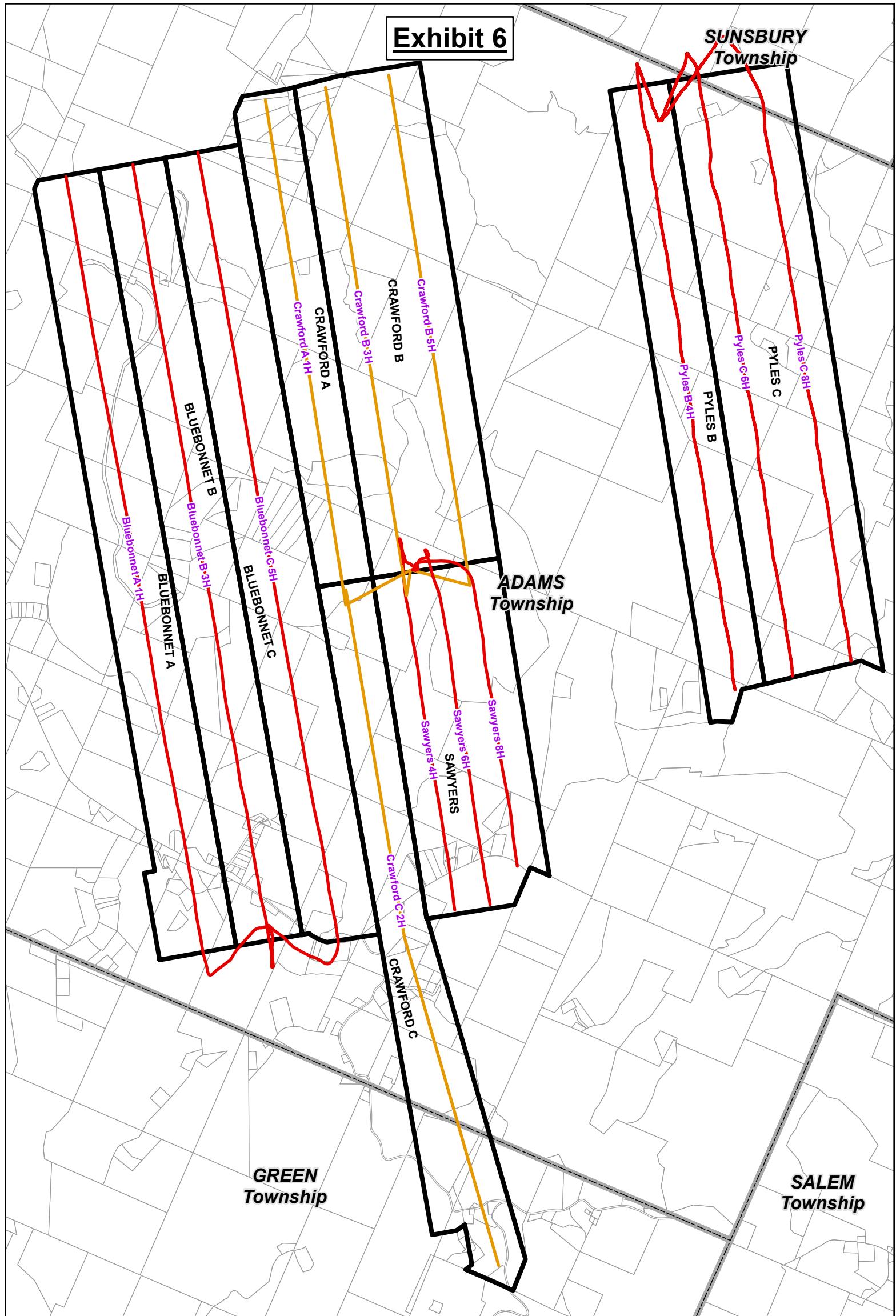
Crawford B Unit

Year	Gas Price (\$/mcf)
2020	\$2.14
2021	\$2.48
2022	\$2.42
2023	\$2.44
2024	\$2.46
To Life	\$2.58
Prices as of	5/2020

Well Name	Lease Operating Expense (\$/month)	Abandonment Cost (\$)
Crawford B 3H	3,459	186,000
Crawford B 5H	3,459	186,000

Attachment 2 Exhibit 6

Exhibit 6



- SURROUNDING UNITS
- PRODUCING LATERAL
- DRILLED LATERAL
- PERMITTED LATERAL
- DRILLING LATERAL
- PLANNED LATERAL



0 740 1,480 2,220 2,960 3,700 Feet



**ECLIPSE
RESOURCES**

Surrounding Units

Adams & Sunbury Townships, Monroe County

Date: 5/26/2020

Attachment 2 Exhibit 7

Exhibit 7

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

In re the Matter of the Application of :
Eclipse Resources I, LP for Unit Operation : Application Date: May 1, 2020
Crawford B Unit : Leasing Update: August 3, 2020

AFFIDAVIT OF LEASING, EFFORTS

I, Austin Graybill, being first duly cautioned and sworn, do hereby depose and state as follows:

1. My name is Austin Graybill and I am a Senior Landman with Eclipse Resources I, LP (the “Applicant”). My day-to-day responsibilities include managing field land brokers, negotiating lease acquisitions, and handling title matters for the Applicant’s operations in the Utica Shale.
2. As a result of my job responsibilities, I have personal knowledge of the matters set forth in this affidavit, including the attachment hereto, and the following information is true to the best of Affiant’s knowledge and belief.
3. Tract Nos. 2, 4, 7, 10, 11, 13, 17, 18, and 30 are not subject to an oil and gas lease or only to a fractional lease of the oil and gas.
4. The Applicant has made diligent efforts to obtain an oil and gas lease of these unleased interests. Those efforts are documented in the attached chart.
5. Gulfport Energy Corporation holds the working interests associated with several leases of fractional interests in oil and gas impacting Tract Nos. 1a, 1b, 2, 7, 29 and 30 and has not reached an agreement with Eclipse to participate in unit operations.
6. The Applicant has made diligent efforts to reach an agreement with Gulfport Energy Corporation regarding this interest. Those efforts are documented in the attached chart.

Further Affiant sayeth naught.

Dated this 3rd day of August 2020.


Austin GRAYBILL

STATE OF TEXAS)) SS
COUNTY OF DALLAS)

Sworn to and subscribed before me this 3rd day of August 2020.



Stephanie A. Suydam
Notary Public

Crawford B Contact Affidavit Exhibit

1. Regarding the following tract, the following contacts were made or attempted:					
Parcel Numbers: 01-003029.0000 (Tract 2) and 01-003011.0000 (Tract 4)					
Owner's Name: Robert M. Ryan					
Date	Eclipse Representative	Owner Representative	Method	Address of Contact	Response
4/23/2020	Luke Bates	Erik Schramm	Phone	N/A	Spoke with Attorney Schramm to see if he would represent Ryans to lease this acreage since he represented them for the previous parcels we leased. Schramm informed us that we should reach out to the heirs and if they would like to use his services, they will contact him about it.
4/28/2020	Lou Otto	Edward P. Ryan	Email	N/A	Sent email to Ed asking to discuss leasing. He will speak for his sons
4/30/2020	Lou Otto	Edward P. Ryan	Phone	N/A	Spoke to Ed, he and his sons have no problem signing a lease provided it is the same lease as they signed some 6 or so months ago.
5/5/2020	Lou Otto	Edward P. Ryan	Email	N/A	Ed replied to email again stating he would sign the lease provided it is the same terms and provisions as last time.
5/8/2020	Lou Otto	Edward P. Ryan	Email	N/A	Sent lease to Ed for review.
5/12/2020	Lou Otto	Erik Schramm	Email	N/A	Emailed Attorney Erik Schramm asking for reservation. He is working on the Cert. of Transfers.
7/29/2020	Gary Pownell	Erik Schramm	Email	N/A	Emailed Attorney a copy of the lease to see if he would like to review before sending to his clients. Attorney advised to send leases directly to clients.
7/17/2020	Lou Otto	Robert M. Ryan	Mail	7910 Sunnydale Ln Charlotte, NC 28210	Sent lease packet to Robert.

7/21/2020	Lou Otto	Robert M. Ryan	Mail	7910 Sunnydale Ln Charlotte, NC 28210	Scheduled delivery is Thursday 7/23.
7/28/2020	Lou Otto	Robert M. Ryan	Mail	7910 Sunnydale Ln Charlotte, NC 28210	Confirmed packet was delivered.

2. Regarding the following tract, the following contacts were made or attempted:

Parcel Numbers: 01-003029.0000 (Tract 2) and 01-003011.0000 (Tract 4)

Owner's Name: Edward T. Ryan

Date	Eclipse Representative	Owner Representative	Method	Address of Contact	Response
4/23/2020	Luke Bates	Erik Schramm	Phone	N/A	Spoke with Attorney Schramm to see if he would represent Ryans to lease this acreage since he represented them for the previous parcels we leased. Schramm informed us that we should reach out to the heirs and if they would like to use his services, they will contact him about it.
4/28/2020	Lou Otto	Edward P. Ryan	Email	N/A	Sent email to Ed asking to discuss leasing. He will speak for his sons
4/30/2020	Lou Otto	Edward P. Ryan	Phone	N/A	Spoke to Ed, he and his sons have no problem signing a lease provided it is the same lease as they signed some 6 or so months ago.
5/5/2020	Lou Otto	Edward P. Ryan	Email	N/A	Ed replied to email again stating he would sign the lease provided it is the same terms and provisions as last time.
5/8/2020	Lou Otto	Edward P. Ryan	Email	N/A	Sent lease to Ed for review.
5/12/2020	Lou Otto	Erik Schramm	Email	N/A	Emailed Attorney Erik Schramm asking for reservation. He is working on the Cert. of Transfers.
7/29/2020	Gary Pownell	Erik Schramm	Email	N/A	Emailed Attorney a copy of the lease to see if he would like to review before sending to his clients. Attorney advised to send leases directly to clients.

7/17/2020	Lou Otto	Edward T. Ryan	Mail	488 Town Hill Road Nashville, IN 47448	Sent lease packet to Ed.
7/21/2020	Lou Otto	Edward T. Ryan	Mail	488 Town Hill Road Nashville, IN 47448	Scheduled delivery is Thursday 7/23.
7/28/2020	Lou Otto	Edward T. Ryan	Mail	488 Town Hill Road Nashville, IN 47448	Confirmed packet was delivered.

3. Regarding the following tract, the following contacts were made or attempted:

Parcel Numbers: 01-004010.0000 (Tract 7)

Owner's Name: The Estate of Sandra Kay Evans

Date	Eclipse Representative	Owner Representative	Method	Address of Contact	Response
4/24/2020	Amy Wigner	Walter Thomas Jeffrey	Phone	N/A	Reached out to Walter, Guardian of Sandra Kay Evans, but no answer.
4/27/2020	Amy Wigner	Walter Thomas Jeffrey	Phone	N/A	Located additional listed numbers for Walter Thomas Jeffery, left messages on two I believe to be related to him.
4/28/2020	Amy Wigner	N/A	Phone	N/A	Reached out to Kanawha County and Jackson County, WV, no Probate for Sandra Kay Jeffery Evans.
4/28/2020	Amy Wigner	N/A	Research	N/A	Locating contact info for surviving heirs Angie Green, T.J. and Debbie Jeffrey.
4/29/2020	Amy Wigner	Angie Green	Phone	N/A	Located number for Angie Green, called and left message
4/29/2020	Amy Wigner	T.J. Jeffrey	Phone	N/A	Located number for T.J. Jeffrey, left message on answering machine
5/4/2020	Amy Wigner	Angie Green	Phone	N/A	Located different number for Angie. Called and left message.
5/7/2020	Amy Wigner	Walter Thomas Jeffrey	Phone	N/A	Called and left message for Walter.
5/9/2020	Amy Wigner	T.J. Jeffrey	Phone	N/A	Received return call from TJ, though he wasn't correct person and not familiar with any family names.

5/11/2020	Amy Wigner	Debbie Jeffrey	Phone	N/A	Spoke with a Debbie, not familiar with the family names. Said she would speak with her husband as he may be related.
5/13/2020	Amy Wigner	Debbie L. Jeffrey	Mail	180 Sanderson Rd. Newport, NC 28570	Found address in NC for Debbie L. Jeffrey; mailed packet.
5/14/2020	Amy Wigner	Walter Thomas Jeffrey	Phone	N/A	Called and left message for Walter.
5/15/2020	Amy Wigner	T.J. Jeffrey	Mail	6363 Davis Creek Rd Barboursville, WV 25504	Found address in WV for TJ; mailed packet.
5/21/2020	Amy Wigner	Debbie Jeffrey	Phone	N/A	Received response from Debbie Jeffrey; she spoke with husband and does not believe they are related.
5/27/2020	Amy Wigner	T.J. Jeffrey	Phone	N/A	Left another message for Tom Jeffrey.
5/28/2020	Amy Wigner	Debbie Jeffrey	Phone	N/A	Received another response from Debbie. Gave contact info for Sandra Evans and correct info for Tom Jeffrey.
6/2/2020	Amy Wigner	Tom Jeffrey	Phone	N/A	Called and left message for Tom.
6/6/2020	Amy Wigner	Tom Jeffrey	Phone	N/A	Spoke with Tom, he received info via Fedex. Will discuss with Tom Jr. and Angie Barney (Green), seems open to leaseing. Explained same terms as past lease.
6/8/2020	Amy Wigner	Debbie Jeffrey	Phone	N/A	Spoke again with Debbie. Agreeable to lease. Is to call back with Angie's current address.
6/10/2020	Amy Wigner	Tom Jeffrey	Mail	6363 Davis Creek Rd Barboursville, WV 25504	Lease packet mailed.
6/10/2020	Amy Wigner	Debbie L. Jeffrey	Mail	180 Sanderson Rd. Newport, NC 28570	Lease packet mailed.
6/24/2020	Amy Wigner	Tom Jeffrey	Phone	N/A	Left message asking for Angie's address.
6/26/2020	Amy Wigner	Tom Jeffrey	Phone	N/A	Spoke with Tom who tells me leases will be signed soon and that Angie will call to provide her address.
7/8/2020	Amy Wigner	Tom Jeffrey	Phone	N/A	Tom said wife has packet and will be returning soon.
7/13/2020	Amy Wigner	Tom Jeffrey	Phone	N/A	Said wife has packet and they will get it notarized and returned.

7/29/2020	Amy Wigner	Tom Jeffrey	Phone	N/A	Spoke with Tom again and offered to come and notarize lease for him. Said he and wife will go to library to take care of it.

4. Regarding the following tract, the following contacts were made or attempted:

Parcel Numbers: 01-011010.0000 (Tract 10)

Owner's Name: LL&B Headwater II, LP

Date	Eclipse Representative	Owner Representative	Method	Address of Contact	Response
4/28/2020	Luke Bates	Robert Rieck	Email	N/A	Emailed to discussing leasing opportunity.
4/30/2020	Luke Bates	Robert Rieck	Phone	N/A	Called and spoke to Robert briefly. He was busy at the moment and said he would call me back soon.
5/15/2020	Luke Bates	Robert Rieck	Email	N/A	Emailed Robert to see if he had any feedback concerning our offer. Received reply that he would be in touch soon.
5/19/2020	Luke Bates	Robert Rieck	Email	N/A	Received email from Robert rejecting our offer and mentioning what terms they were seeking.
5/26/2020	Luke Bates	Robert Rieck	Email	N/A	Emailed Robert asking to set up a call to discuss his recent email and the terms for the lease.
6/17/2020	Luke Bates	Robert Rieck	Email	N/A	Emailed Robert to discuss lease terms, asked him to set up a call to discuss.
7/16/2020	Luke Bates	Robert Rieck	Email	N/A	Emailed to setup a call to discuss offer.
7/21/2020	Luke Bates	Robert Rieck	Email	N/A	Received an email from Robert stating he would give me a call the following day.
7/24/2020	Luke Bates	Robert Rieck	Email	N/A	Did not receive a call from Robert, so I followed up asking him to set up a time for a call.

5. Regarding the following tract, the following contacts were made or attempted:

Parcel Numbers: 01-011010.0000 (Tract 10), 01-011016.0000 (Tract 11), and 01-011001.0000 (Tract 13)

Owner's Name: Mildred Conger

Date	Eclipse Representative	Owner Representative	Method	Address of Contact	Response
7/6/2017	Lou Otto	David Faloba	Phone	N/A	Messaged David who represented Mildred Conger in the past to see if he was still representing her.
7/14/2017	Lou Otto	David Faloba	Email	N/A	Asked David if he was willing to discuss the heirs and opportunity to lease.
7/21/2017	Lou Otto	David Faloba	Phone	N/A	David called and left message. Returned call and left him a message.
7/25/2017	Lou Otto	David Faloba	Phone	N/A	Texted David asking him to call me.
7/29/2017	Lou Otto	David Faloba	Phone	N/A	David called and left message.
8/1/2017	Lou Otto	David Faloba	Phone	N/A	Called David and left message.
8/3/2017	Lou Otto	David Faloba	Phone	N/A	Called David and left another message.
8/18/2017	Lou Otto	David Faloba	Phone	N/A	Called David and left another message.
9/6/2017	Lou Otto	Mildred Conger	Mail	125 David Canary Dr SW Apt 203 Massillon OH 44647	Sent letter via certified mail.
9/13/2017	Lou Otto	David Faloba	Phone	N/A	Spoke to David. Said he wants to work directly with Eclipse on this.
12/11/2019	Lou Otto	Mildred Conger	Mail	125 David Canary Dr SW Apt 203 Massillon OH 44647	Sent letter and disclosure statement via certified mail.
12/16/2019	Lou Otto	Mildred Conger	Mail	125 David Canary Dr SW Apt 203 Massillon OH 44647	Notification that delivery was attempted but nobody was available to sign for it.
12/18/2019	Lou Otto	Mildred Conger	Mail	125 David Canary Dr SW Apt 203 Massillon OH 44647	Delivery still not made.
1/2/2020	Lou Otto	Mildred Conger	Mail	125 David Canary Dr SW Apt 203 Massillon OH 44647	Package returned to sender.
1/3/2020	Lou Otto	Mildred Conger	Phone	N/A	Called and left message.

1/8/2020	Lou Otto	David Faloba	Phone	N/A	Sent email to David asking if he still represents Evans heirs and if he is willing to discuss. He replied that he is working with Eclipse directly on another matter.
4/23/2020	Luke Bates	David Faloba	Email	N/A	Emailed David to discuss a lease for Evans heirs.
4/24/2020	Luke Bates	David Faloba	Phone	N/A	Called and spoke with David. Discussed moving forward with a lease for the same terms as the previous lease we worked through. He asked for some additional title information to present to clients. Working to pull that together.
4/28/2020	Gary Pownell	David Faloba	Email	N/A	Emailed David to detail out the curative that would be required to obtain marketable title for the clients he represents.
5/27/2020	Amy Wigner	Mildred Conger	Phone	N/A	Called and left voicemail asking for return call.
5/28/2020	Amy Wigner	David Schaffner	Phone	N/A	Spoke with David, he explained COT's are out for signature. Hopeful this can be wrapped up in next 2 weeks.
6/8/2020	Luke Bates	David Faloba	Phone	N/A	Had call with Mr. Faloba concerning the leases for his clients. He stated that they are still working on the curative needed in order to sign. I requested that we move forward with Protection Leases while they're still working to clear title. He said title was nearly complete and that they prefer to finish and sign a lease and get paid their full bonus. Said he would follow up via email to show their progress.
6/9/2020	Luke Bates	David Faloba	Email	N/A	David followed up with email asking to review their work so far on clearing title.
6/11/2020	Luke Bates	David Faloba	Email	N/A	Emailed David asking for the documents he had promised to send. Received email back with unrecorded certificates of transfer.
6/11/2020	Gary Pownell	David Faloba	Email	N/A	Emailed David with concerns and questions about the certificates of transfer they had prepared.

6/24/2020	Gary Pownell	David Faloba	Email	N/A	Emailed David asking for an update on the COTs. Emailed back with updated documents which were still not recorded.
7/10/2020	Luke Bates	David Faloba	Email	N/A	David emailed asking how the leases were coming for his clients and asked for a breakdown of interest.
7/14/2020	Luke Bates	David Faloba	Email	N/A	Provided breakdown and asked for additional info in order to prepare leases. Received response with the info needed.
7/21/2020	Luke Bates	David Faloba	Email	N/A	Emailed David following up on title and how they would like to handle the leases since title is not yet clear.
7/31/2020	Luke Bates	David Faloba	Email	N/A	Emailed David again following up on my previous question.

6. Regarding the following tract, the following contacts were made or attempted:

Parcel Numbers: 01-011010.0000 (Tract 10), 01-011016.0000 (Tract 11), and 01-011001.0000 (Tract 13)
Owner's Name: Charles Evans

Date	Eclipse Representative	Owner Representative	Method	Address of Contact	Response
7/6/2017	Lou Otto	David Faloba	Phone	N/A	Messaged David who represented Mildred Conger in the past to see if he was still representing her.
7/14/2017	Lou Otto	David Faloba	Email	N/A	Asked David if he was willing to discuss the heirs and opportunity to lease.
7/21/2017	Lou Otto	David Faloba	Phone	N/A	David called and left message. Returned call and left him a message.
7/25/2017	Lou Otto	David Faloba	Phone	N/A	Texted David asking him to call me.
7/29/2017	Lou Otto	David Faloba	Phone	N/A	David called and left message.
8/1/2017	Lou Otto	David Faloba	Phone	N/A	Called David and left message.
8/3/2017	Lou Otto	David Faloba	Phone	N/A	Called David and left another message.
8/18/2017	Lou Otto	David Faloba	Phone	N/A	Called David and left another message.

9/6/2017	Lou Otto	Charles Evans	Mail	222 Berger St. S East Canton OH 44730	Sent letter via certified mail.
9/13/2017	Lou Otto	David Faloba	Phone	N/A	Spoke to David. Said he wants to work directly with Eclipse on this.
12/11/2019	Lou Otto	Charles Evans	Mail	222 Berger St. S East Canton OH 44730	Sent letter and disclosure statement via certified mail.
12/16/2019	Lou Otto	Charles Evans	Mail	222 Berger St. S East Canton OH 44730	Notification that package was signed for and delivered.
1/3/2020	Lou Otto	Charles Evans	Phone	N/A	Called but was unable to leave message.
1/8/2020	Lou Otto	David Faloba	Phone	N/A	Sent email to David asking if he still represents Evans heirs and if he is willing to discuss. He replied that he is working with Eclipse directly on another matter.
4/23/2020	Luke Bates	David Faloba	Email	N/A	Emailed David to discuss a lease for Evans heirs.
4/24/2020	Luke Bates	David Faloba	Phone	N/A	Called and spoke with David. Discussed moving forward with a lease for the same terms as the previous lease we worked through. He asked for some additional title information to present to clients. Working to pull that together.
4/28/2020	Gary Pownell	David Faloba	Email	N/A	Emailed David to detail out the curative that would be required to obtain marketable title for the clients he represents.
5/28/2020	Amy Wigner	David Schaffner	Phone	N/A	Spoke with David, he explained COT's are out for signature. Hopeful this can be wrapped up in next 2 weeks.

6/8/2020	Luke Bates	David Faloba	Phone	N/A	Had call with Mr. Faloba concerning the leases for his clients. He stated that they are still working on the curative needed in order to sign. I requested that we move forward with Protection Leases while they're still working to clear title. He said title was nearly complete and that they prefer to finish and sign a lease and get paid their full bonus. Said he would follow up via email to show their progress.
6/9/2020	Luke Bates	David Faloba	Email	N/A	David followed up with email asking to review their work so far on clearing title.
6/11/2020	Luke Bates	David Faloba	Email	N/A	Emailed David asking for the documents he had promised to send. Received email back with unrecorded certificates of transfer.
6/11/2020	Gary Pownell	David Faloba	Email	N/A	Emailed David with concerns and questions about the certificates of transfer they had prepared.
6/24/2020	Gary Pownell	David Faloba	Email	N/A	Emailed David asking for an update on the COTs. Emailed back with updated documents which were still not recorded.
7/10/2020	Luke Bates	David Faloba	Email	N/A	David emailed asking how the leases were coming for his clients and asked for a breakdown of interest.
7/14/2020	Luke Bates	David Faloba	Email	N/A	Provided breakdown and asked for additional info in order to prepare leases. Received response with the info needed.
7/21/2020	Luke Bates	David Faloba	Email	N/A	Emailed David following up on title and how they would like to handle the leases since title is not yet clear.
7/31/2020	Luke Bates	David Faloba	Email	N/A	Emailed David again following up on my previous question.
7. Regarding the following tract, the following contacts were made or attempted:					
Parcel Numbers: 01-011010.0000 (Tract 10), 01-011016.0000 (Tract 11), and 01-011001.0000 (Tract 13) Owner's Name: David Evans and Deborah Evans					

Date	Eclipse Representative	Owner Representative	Method	Address of Contact	Response
7/6/2017	Lou Otto	David Faloba	Phone	N/A	Messaged David who represented Mildred Conger in the past to see if he was still representing her.
7/14/2017	Lou Otto	David Faloba	Email	N/A	Asked David if he was willing to discuss the heirs and opportunity to lease.
7/21/2017	Lou Otto	David Faloba	Phone	N/A	David called and left message. Returned call and left him a message.
7/25/2017	Lou Otto	David Faloba	Phone	N/A	Texted David asking him to call me.
7/29/2017	Lou Otto	David Faloba	Phone	N/A	David called and left message.
8/1/2017	Lou Otto	David Faloba	Phone	N/A	Called David and left message.
8/3/2017	Lou Otto	David Faloba	Phone	N/A	Called David and left another message.
8/18/2017	Lou Otto	David Faloba	Phone	N/A	Called David and left another message.
9/6/2017	Lou Otto	David and Deborah Evans	Mail	11372 Ravenna Ave Louisville OH 44641	Sent letter via certified mail.
9/13/2017	Lou Otto	David Faloba	Phone	N/A	Spoke to David. Said he wants to work directly with Eclipse on this.
12/11/2019	Lou Otto	David and Deborah Evans	Mail	11372 Ravenna Ave Louisville OH 44641	Sent letter and disclosure statement via certified mail.
12/16/2019	Lou Otto	David and Deborah Evans	Mail	11372 Ravenna Ave Louisville OH 44641	Notification that nobody was available to sign for package.
12/18/2019	Lou Otto	David and Deborah Evans	Mail	11372 Ravenna Ave Louisville OH 44641	Notification that package was signed for and delivered.
1/3/2020	Lou Otto	David and Deborah Evans	Phone	N/A	Called and left message. Someone called back and confirmed wrong number.
1/8/2020	Lou Otto	David Faloba	Phone	N/A	Sent email to David asking if he still represents Evans heirs and if he is willing to discuss. He replied that he is working with Eclipse directly on another matter.
4/23/2020	Luke Bates	David Faloba	Email	N/A	Emailed David to discuss a lease for Evans heirs.

4/24/2020	Luke Bates	David Faloba	Phone	N/A	Called and spoke with David. Discussed moving forward with a lease for the same terms as the previous lease we worked through. He asked for some additional title information to present to clients. Working to pull that together.
4/28/2020	Gary Pownell	David Faloba	Email	N/A	Emailed David to detail out the curative that would be required to obtain marketable title for the clients he represents.
5/28/2020	Amy Wigner	David Schaffner	Phone	N/A	Spoke with David, he explained COT's are out for signature. Hopeful this can be wrapped up in next 2 weeks.
6/8/2020	Luke Bates	David Faloba	Phone	N/A	Had call with Mr. Faloba concerning the leases for his clients. He stated that they are still working on the curative needed in order to sign. I requested that we move forward with Protection Leases while they're still working to clear title. He said title was nearly complete and that they prefer to finish and sign a lease and get paid their full bonus. Said he would follow up via email to show their progress.
6/9/2020	Luke Bates	David Faloba	Email	N/A	David followed up with email asking to review their work so far on clearing title.
6/11/2020	Luke Bates	David Faloba	Email	N/A	Emailed David asking for the documents he had promised to send. Received email back with unrecorded certificates of transfer.
6/11/2020	Gary Pownell	David Faloba	Email	N/A	Emailed David with concerns and questions about the certificates of transfer they had prepared.
6/24/2020	Gary Pownell	David Faloba	Email	N/A	Emailed David asking for an update on the COTs. Emailed back with updated documents which were still not recorded.
7/10/2020	Luke Bates	David Faloba	Email	N/A	David emailed asking how the leases were coming for his clients and asked for a breakdown of interest.

7/14/2020	Luke Bates	David Faloba	Email	N/A	Provided breakdown and asked for additional info in order to prepare leases. Received response with the info needed.
7/21/2020	Luke Bates	David Faloba	Email	N/A	Emailed David following up on title and how they would like to handle the leases since title is not yet clear.
7/31/2020	Luke Bates	David Faloba	Email	N/A	Emailed David again following up on my previous question.

8. Regarding the following tract, the following contacts were made or attempted:

Parcel Numbers: 01-011004.1000 (Tract 17) and 01-011004.0000 (Tract 18)

Owner's Name: Michael Chirpas

Date	Eclipse Representative	Owner Representative	Method	Address of Contact	Response
11/1/2019	Dwight Jones	Michael Chirpas	Mail	PO Box 48 Neffs, OH 43940	Mailed disclosure form.
11/21/2019	Dwight Jones	Michael Chirpas	Mail	PO Box 48 Neffs, OH 43940	Received signed disclosure form from Michael.
12/9/2019	Dwight Jones	Michael Chirpas	Mail	PO Box 48 Neffs, OH 43940	Lease sent via FedEx.
1/14/2020	Dwight Jones	Bill Chirpas	Email	N/A	Received email from Mr. Chirpas asking for a map showing how Eclipse planned to develop the area.
1/16/2020	Dwight Jones	Bill Chirpas	Email	N/A	Mr. Chirpas asked if Eclipse would remove the subsurface language.
1/23/2020	Dwight Jones	Bill Chirpas	Email	N/A	I asked Mr. Chirpas if he had a chance to review the entire lease and that we could probably work with him on the subsurface easement language. He responded asking that we improve the financial terms of the lease.

1/24/2020	Dwight Jones	Bill Chirpas	Email	N/A	Responded to Mr. Chirpas reminding him that we added Cost Free Royalty language to his lease and that I was maxed out on bonus money. Told him that if he wanted to counter the offer, I would present it to Eclipse.
1/27/2020	Dwight Jones	Bill Chirpas	Email	N/A	Received email from Bill. Said he has read the entire lease and if Eclipse is serious about leasing the property then negotiations should begin with the lease he submitted to them.
2/4/2020	Dwight Jones	Bill Chirpas	Email	N/A	Sent Mr. Chirpas a copy of the lease in Word form and told him he could redline it and send it back.
2/10/2020	Dwight Jones	Bill Chirpas	Email	N/A	Received email from Mr. Chirpas asking that the Vertical Pugh include specific depths.
2/14/2020	Dwight Jones	Bill Chirpas	Email	N/A	Sent Mr. Chirpas revised pugh language.
2/14/2020	Dwight Jones	Bill Chirpas	Email	N/A	Responded that the Vertical Pugh clause needs to isolate one formation and asked if Eclipse was willing to do that.
2/17/2020	Dwight Jones	Bill Chirpas	Email	N/A	Sent Bill an email and asked him to list all the areas of the lease he has a problem with so we could work through everything at once.
2/18/2020	Dwight Jones	Michael Chirpas	Email	N/A	Emailed Michael asking if his brother William was in fact representing all of the family. He responded that he would like to be notified if the offer increases.
2/29/2020	Dwight Jones	Bill Chirpas	Phone	N/A	Spoke with Bill again and said his brothers will follow him and will do what he does. He mentioned several areas of the lease that he has a problem with such as length of lease and bonus payment. Will discuss with Luke.
3/3/2020	Dwight Jones	Bill Chirpas	Email	N/A	Received email from Bill requesting several specific clauses be added to the lease.
3/11/2020	Dwight Jones	Bill Chirpas	Email	N/A	Sent Mr. Chirpas an email restating our current terms and asked that he mark up the lease so we can see what changes he wants so we can try and agree to terms.
3/31/2020	Dwight Jones	Bill Chirpas	Email	N/A	Sent Mr. Chirpas an email asking if he'd had time to review and redline the lease.

3/31/2020	Dwight Jones	Bill Chirpas	Phone	N/A	Mr. Chirpas called me and went over several things he wanted to see in the lease. Immediately spoke with Luke to get approval for some of the changes.
4/6/2020	Dwight Jones	Michael Chirpas	Mail	PO Box 48 Neffs, OH 43940	Mailed Mr. Chirpas a copy of the revised lease.
4/9/2020	Dwight Jones	Michael Chirpas	Mail	PO Box 48 Neffs, OH 43940	Confirmed Mr. Chirpas received lease in mail.
4/24/2020	Dwight Jones	Bill Chirpas	Email	N/A	Sent Mr. Chirpas an email asking if he has spoken with his brothers concerning the lease.
4/28/2020	Dwight Jones	Bill Chirpas	Phone	N/A	Called and left a message for Bill Chirpas.
4/30/2020	Dwight Jones	Bill Chirpas	Phone	N/A	Spoke with Bill and he agreed to conference call with Luke Bates on 5/1/20.
5/1/2020	Dwight Jones Luke Bates	Bill Chirpas	Phone	N/A	Spoke with Bill and discussed his concerns with the lease. Luke is going to make a few changes to the lease and I will send it to all of the brothers. After speaking with Bill, we were under the impression Michael is going to do his own thing.
5/4/2020	Dwight Jones	Michael Chirpas	Email	N/A	Received email from Michael and he indicated that he would accept the same lease terms as his brothers.
5/25/2020	Dwight Jones	Michael Chirpas	Email	N/A	Received another email from Michael and he indicated he would
6/5/2020	Dwight Jones	Michael Chirpas	Mail	PO Box 48 Neffs, OH 43940	Sent Mr. Chirpas revised copy of lease via USPS.
6/18/2020	Dwight Jones	Michael Chirpas	Phone	N/A	Mr. Chirpas called and said his wife's name should be on the lease. Confirmed information to correct lease.
9. Regarding the following tract, the following contacts were made or attempted:					
Parcel Numbers: 01-011004.1000 (Tract 17) and 01-011004.0000 (Tract 18) Owner's Name: Gary Chirpas					
Date	Eclipse Representative	Owner Representative	Method	Address of Contact	Response

11/1/2019	Dwight Jones	Gary Chirpas	Mail	703 Crestwood Drive Prestonburg, KY 41653	Mailed Gary Chirpas disclosure form.
11/6/2019	Dwight Jones	Gary Chirpas	Phone	N/A	Spoke with Gary who had questions about the disclosure form. Explained everything to him. He said he would have his brothers complete theirs and send back to me as well.
11/13/2019	Dwight Jones	Gary Chirpas	Mail	703 Crestwood Drive Prestonburg, KY 41653	Received Gary Chirpas' disclosure form.
12/9/2019	Dwight Jones	Gary Chirpas	Mail	703 Crestwood Drive Prestonburg, KY 41653	Lease sent via FedEx.
1/14/2020	Dwight Jones	Bill Chirpas	Email	N/A	Received email from Mr. Chirpas asking for a map showing how Eclipse planned to develop the area.
1/16/2020	Dwight Jones	Bill Chirpas	Email	N/A	Mr. Chirpas asked if Eclipse would remove the subsurface language.
1/23/2020	Dwight Jones	Bill Chirpas	Email	N/A	I asked Mr. Chirpas if he had a chance to review the entire lease and that we could probably work with him on the subsurface easement language. He responded asking that we improve the financial terms of the lease.
1/24/2020	Dwight Jones	Bill Chirpas	Email	N/A	Responded to Mr. Chirpas reminding him that we added Cost Free Royalty language to his lease and that I was maxed out on bonus money. Told him that if he wanted to counter the offer, I would present it to Eclipse.
1/27/2020	Dwight Jones	Bill Chirpas	Email	N/A	Received email from Bill. Said he has read the entire lease and if Eclipse is serious about leasing the property then negotiations should begin with the lease he submitted to them.
2/4/2020	Dwight Jones	Bill Chirpas	Email	N/A	Sent Mr. Chirpas a copy of the lease in Word form and told him he could redline it and send it back.
2/10/2020	Dwight Jones	Bill Chirpas	Email	N/A	Received email from Mr. Chirpas asking that the Vertical Pugh include specific depths.
2/14/2020	Dwight Jones	Bill Chirpas	Email	N/A	Sent Mr. Chirpas revised pugh language.

2/14/2020	Dwight Jones	Bill Chirpas	Email	N/A	Responded that the Vertical Pugh clause needs to isolate one formation and asked if Eclipse was willing to do that.
2/17/2020	Dwight Jones	Bill Chirpas	Email	N/A	Sent Bill an email and asked him to list all the areas of the lease he has a problem with so we could work through everything at once.
2/19/2020	Dwight Jones	Gary Chirpas	Phone	N/A	Tried calling Steve but number didn't work.
2/27/2020	Dwight Jones	Gary Chirpas	Mail	703 Crestwood Drive Prestonburg, KY 41653	Mailed letter to Steve asking that he call me.
2/29/2020	Dwight Jones	Bill Chirpas	Phone	N/A	Spoke with Bill again and said his brothers will follow him and will do what he does. He mentioned several areas of the lease that he has a problem with such as length of lease and bonus payment. Will discuss with Luke.
3/3/2020	Dwight Jones	Bill Chirpas	Email	N/A	Received email from Bill requesting several specific clauses be added to the lease.
3/11/2020	Dwight Jones	Bill Chirpas	Email	N/A	Sent Mr. Chirpas an email restating our current terms and asked that he mark up the lease so we can see what changes he wants so we can try and agree to terms.
3/31/2020	Dwight Jones	Bill Chirpas	Email	N/A	Sent Mr. Chirpas an email asking if he'd had time to review and redline the lease.
3/31/2020	Dwight Jones	Bill Chirpas	Phone	N/A	Mr. Chirpas called me and went over several things he wanted to see in the lease. Immediately spoke with Luke to get approval for some of the changes.
4/6/2020	Dwight Jones	Gary Chirpas	Mail	703 Crestwood Drive Prestonburg, KY 41653	Mailed Mr. Chirpas a copy of the revised lease.
4/9/2020	Dwight Jones	Gary Chirpas	Mail	703 Crestwood Drive Prestonburg, KY 41653	Confirmed Mr. Chirpas received lease in mail.
4/24/2020	Dwight Jones	Bill Chirpas	Email	N/A	Sent Mr. Chirpas an email asking if he has spoken with his brothers concerning the lease.
4/28/2020	Dwight Jones	Bill Chirpas	Phone	N/A	Called and left a message for Bill Chirpas.
4/30/2020	Dwight Jones	Bill Chirpas	Phone	N/A	Spoke with Bill and he agreed to conference call with Luke Bates on 5/1/20.

5/1/2020	Dwight Jones Luke Bates	Bill Chirpas	Phone	N/A	Spoke with Bill and discussed his concerns with the lease. Luke is going to make a few changes to the lease and I will send it to all of the brothers.
5/4/2020	Dwight Jones Luke Bates	Bill Chirpas	Email	N/A	Received email from Bill and he was questioning the point of sale regarding royalties. Luke responded answering his question.
5/12/2020	Dwight Jones	Bill Chirpas	Email	N/A	Sent Mr. Chirpas an email asking if he had discussed the lease with his brothers. He responded that he hasn't as he has company. Said he will review this week.
5/18/2020	Dwight Jones	Bill Chirpas	Phone	N/A	Spoke with Bill and he has a few additional changes he wants in the lease. Sent proposed changes to ECR for approval.
6/5/2020	Dwight Jones	Gary Chirpas	Mail	703 Crestwood Drive Prestonburg, KY 41653	Mailed Mr. Chirpas a copy of the revised lease.

10. Regarding the following tract, the following contacts were made or attempted:

Parcel Numbers: 01-011004.1000 (Tract 17) and 01-011004.0000 (Tract 18)

Owner's Name: Steve Chirpas, Jr.

Date	Eclipse Representative	Owner Representative	Method	Address of Contact	Response
11/18/2019	Dwight Jones	Steve Chirpas	Mail	4190 Noble Street Bellaire, OH 43906	Mailed disclosure form to new address for Steve.
11/27/2019	Dwight Jones	Steve Chirpas	Mail	4190 Noble Street Bellaire, OH 43906	Received signed disclosure form from Steve.
12/9/2019	Dwight Jones	Steve Chirpas	Mail	4190 Noble Street Bellaire, OH 43906	Lease sent via FedEx.
1/14/2020	Dwight Jones	Bill Chirpas	Email	N/A	Received email from Mr. Chirpas asking for a map showing how Eclipse planned to develop the area.
1/16/2020	Dwight Jones	Bill Chirpas	Email	N/A	Mr. Chirpas asked if Eclipse would remove the subsurface language.

1/23/2020	Dwight Jones	Bill Chirpas	Email	N/A	I asked Mr. Chirpas if he had a chance to review the entire lease and that we could probably work with him on the subsurface easement language. He responded asking that we improve the financial terms of the lease.
1/24/2020	Dwight Jones	Bill Chirpas	Email	N/A	Responded to Mr. Chirpas reminding him that we added Cost Free Royalty language to his lease and that I was maxed out on bonus money. Told him that if he wanted to counter the offer, I would present it to Eclipse.
1/27/2020	Dwight Jones	Bill Chirpas	Email	N/A	Received email from Bill. Said he has read the entire lease and if Eclipse is serious about leasing the property then negotiations should begin with the lease he submitted to them.
2/4/2020	Dwight Jones	Bill Chirpas	Email	N/A	Sent Mr. Chirpas a copy of the lease in Word form and told him he could redline it and send it back.
2/10/2020	Dwight Jones	Bill Chirpas	Email	N/A	Received email from Mr. Chirpas asking that the Vertical Pugh include specific depths.
2/14/2020	Dwight Jones	Bill Chirpas	Email	N/A	Sent Mr. Chirpas revised pugh language.
2/14/2020	Dwight Jones	Bill Chirpas	Email	N/A	Responded that the Vertical Pugh clause needs to isolate one formation and asked if Eclipse was willing to do that.
2/17/2020	Dwight Jones	Bill Chirpas	Email	N/A	Sent Bill an email and asked him to list all the areas of the lease he has a problem with so we could work through everything at once.
2/19/2020	Dwight Jones	Steve Chirpas	Phone	N/A	Tried calling Steve but number didn't work.
2/27/2020	Dwight Jones	Steve Chirpas	Mail	4190 Noble Street Bellaire, OH 43906	Mailed letter to Steve asking that he call me.
2/29/2020	Dwight Jones	Bill Chirpas	Phone	N/A	Spoke with Bill again and said his brothers will follow him and will do what he does. He mentioned several areas of the lease that he has a problem with such as length of lease and bonus payment. Will discuss with Luke.
3/3/2020	Dwight Jones	Bill Chirpas	Email	N/A	Received email from Bill requesting several specific clauses be added to the lease.

3/11/2020	Dwight Jones	Bill Chirpas	Email	N/A	Sent Mr. Chirpas an email restating our current terms and asked that he mark up the lease so we can see what changes he wants so we can try and agree to terms.
3/31/2020	Dwight Jones	Bill Chirpas	Email	N/A	Sent Mr. Chirpas an email asking if he'd had time to review and redline the lease.
3/31/2020	Dwight Jones	Bill Chirpas	Phone	N/A	Mr. Chirpas called me and went over several things he wanted to see in the lease. Immediately spoke with Luke to get approval for some of the changes.
4/6/2020	Dwight Jones	Steve Chirpas	Mail	4190 Noble Street Bellaire, OH 43906	Mailed Mr. Chirpas a copy of the revised lease.
4/9/2020	Dwight Jones	Steve Chirpas	Mail	4190 Noble Street Bellaire, OH 43906	Confirmed Mr. Chirpas received lease in mail.
4/24/2020	Dwight Jones	Bill Chirpas	Email	N/A	Sent Mr. Chirpas an email asking if he has spoken with his brothers concerning the lease.
4/28/2020	Dwight Jones	Bill Chirpas	Phone	N/A	Called and left a message for Bill Chirpas.
4/30/2020	Dwight Jones	Bill Chirpas	Phone	N/A	Spoke with Bill and he agreed to conference call with Luke Bates on 5/1/20.
5/1/2020	Dwight Jones Luke Bates	Bill Chirpas	Phone	N/A	Spoke with Bill and discussed his concerns with the lease. Luke is going to make a few changes to the lease and I will send it to all of the brothers.
5/4/2020	Dwight Jones Luke Bates	Bill Chirpas	Email	N/A	Received email from Bill and he was questioning the point of sale regarding royalties. Luke responded answering his question.
5/12/2020	Dwight Jones	Bill Chirpas	Email	N/A	Sent Mr. Chirpas an email asking if he had discussed the lease with his brothers. He responded that he hasn't as he has company. Said he will review this week.
5/18/2020	Dwight Jones	Bill Chirpas	Phone	N/A	Spoke with Bill and he has a few additional changes he wants in the lease. Sent proposed changes to ECR for approval.
6/5/2020	Dwight Jones	Steve Chirpas	Mail	4190 Noble Street Bellaire, OH 43906	Mailed Mr. Chirpas a copy of the revised lease.

11. Regarding the following tract, the following contacts were made or attempted:

Parcel Numbers: 01-011004.1000 (Tract 17) and 01-011004.0000 (Tract 18)

Owner's Name: Arendei Investments, LLC

Date	Eclipse Representative	Owner Representative	Method	Address of Contact	Response
11/17/2019	Dwight Jones	Bill Chirpas	Phone	N/A	Bill called me and said he hasn't received any paperwork from me. He has moved to Tennessee and I didn't have his new address.
11/18/2019	Dwight Jones	Bill Chirpas	Mail	1265 Chilton Road Allons, TN 38541	Mailed disclosure form to new address for Bill.
11/27/2019	Dwight Jones	Bill Chirpas	Mail	1265 Chilton Road Allons, TN 38541	Received signed disclosure form from Bill.
12/9/2019	Dwight Jones	Bill Chirpas	Mail	1265 Chilton Road Allons, TN 38541	Lease sent via FedEx.
1/14/2020	Dwight Jones	Bill Chirpas	Email	N/A	Received email from Mr. Chirpas asking for a map showing how Eclipse planned to develop the area.
1/16/2020	Dwight Jones	Bill Chirpas	Email	N/A	Mr. Chirpas asked if Eclipse would remove the subsurface language.
1/23/2020	Dwight Jones	Bill Chirpas	Email	N/A	I asked Mr. Chirpas if he had a chance to review the entire lease and that we could probably work with him on the subsurface easement language. He responded asking that we improve the financial terms of the lease.
1/24/2020	Dwight Jones	Bill Chirpas	Email	N/A	Responded to Mr. Chirpas reminding him that we added Cost Free Royalty language to his lease and that I was maxed out on bonus money. Told him that if he wanted to counter the offer, I would present it to Eclipse.
1/27/2020	Dwight Jones	Bill Chirpas	Email	N/A	Received email from Bill. Said he has read the entire lease and if Eclipse is serious about leasing the property then negotiations should begin with the lease he submitted to them.

2/4/2020	Dwight Jones	Bill Chirpas	Email	N/A	Sent Mr. Chirpas a copy of the lease in Word form and told him he could redline it and send it back.
2/10/2020	Dwight Jones	Bill Chirpas	Email	N/A	Received email from Mr. Chirpas asking that the Vertical Pugh include specific depths.
2/14/2020	Dwight Jones	Bill Chirpas	Email	N/A	Sent Mr. Chirpas revised pugh language.
2/14/2020	Dwight Jones	Bill Chirpas	Email	N/A	Responded that the Vertical Pugh clause needs to isolate one formation and asked if Eclipse was willing to do that.
2/17/2020	Dwight Jones	Bill Chirpas	Email	N/A	Sent Bill an email and asked him to list all the areas of the lease he has a problem with so we could work through everything at once.
2/29/2020	Dwight Jones	Bill Chirpas	Phone	N/A	Spoke with Bill again and said his brothers will follow him and will do what he does. He mentioned several areas of the lease that he has a problem with such as length of lease and bonus payment. Will discuss with Luke.
3/3/2020	Dwight Jones	Bill Chirpas	Email	N/A	Received email from Bill requesting several specific clauses be added to the lease.
3/11/2020	Dwight Jones	Bill Chirpas	Email	N/A	Sent Mr. Chirpas an email restating our current terms and asked that he mark up the lease so we can see what changes he wants so we can try and agree to terms.
3/31/2020	Dwight Jones	Bill Chirpas	Email	N/A	Sent Mr. Chirpas an email asking if he'd had time to review and redline the lease.
3/31/2020	Dwight Jones	Bill Chirpas	Phone	N/A	Mr. Chirpas called me and went over several things he wanted to see in the lease. Immediately spoke with Luke to get approval for some of the changes.
4/6/2020	Dwight Jones	Bill Chirpas	Mail	1265 Chilton Road Allons, TN 38541	Mailed Mr. Chirpas a copy of the revised lease.
4/10/2020	Dwight Jones	Bill Chirpas	Mail	1265 Chilton Road Allons, TN 38541	Confirmed Mr. Chirpas received lease in mail.
4/24/2020	Dwight Jones	Bill Chirpas	Email	N/A	Sent Mr. Chirpas an email asking if he has spoken with his brothers concerning the lease.
4/28/2020	Dwight Jones	Bill Chirpas	Phone	N/A	Called and left a message for Bill Chirpas.

4/30/2020	Dwight Jones	Bill Chirpas	Phone	N/A	Spoke with Bill and he agreed to conference call with Luke Bates on 5/1/20.
5/1/2020	Dwight Jones Luke Bates	Bill Chirpas	Phone	N/A	Spoke with Bill and discussed his concerns with the lease. Luke is going to make a few changes to the lease and I will send it to all of the brothers.
5/4/2020	Dwight Jones Luke Bates	Bill Chirpas	Email	N/A	Received email from Bill and he was questioning the point of sale regarding royalties. Luke responded answering his question.
5/12/2020	Dwight Jones	Bill Chirpas	Email	N/A	Sent Mr. Chirpas an email asking if he had discussed the lease with his brothers. He responded that he hasn't as he has company. Said he will review this week.
5/18/2020	Dwight Jones	Bill Chirpas	Phone	N/A	Spoke with Bill and he has a few additional changes he wants in the lease. Sent proposed changes to ECR for approval.
5/20/2020	Dwight Jones	Bill Chirpas	Mail	1265 Chilton Road Allons, TN 38541	Lease approval sent to Mr. Chirpas.
5/29/2020	Dwight Jones	Bill Chirpas	Email	N/A	Revised lease emailed to Mr. Chirpas.
5/31/2020	Dwight Jones	Bill Chirpas	Email	N/A	Received email response from Mr. Chirpas requesting entire subsurface language be removed.
6/2/2020	Dwight Jones Luke Bates	Bill Chirpas	Phone	N/A	Conference call with Mr. Chirpas. Luke agreed to add an Audit Clause. Emailed Mr. Chirpas revised lease with changes discussed in call.
6/9/2020	Dwight Jones	Bill Chirpas	Phone	N/A	Spoke with Bill who asked for a unit map to review.
6/10/2020	Dwight Jones	Bill Chirpas	Email	N/A	Sent unit map to Bill.
6/24/2020	Dwight Jones	Bill Chirpas	Email	N/A	Emailed asking for marital status of his brothers.

7/1/2020	Dwight Jones	Bill Chirpas	Phone	N/A	Spoke with Bill. He said he was waiting on his attorney to send a list of addendums he wanted to see in the lease. Mr. Chirpas had a couple of changes he wanted to see as well.
7/2/2020	Dwight Jones	Bill Chirpas	Email	N/A	Sent Bill an email that I would wait to submit an approval until he hears back from Mr. Yoss.
7/14/2020	Dwight Jones	Bill Chirpas	Phone	N/A	Bill asked for another copy of latest lease.
7/17/2020	Dwight Jones	Bill Chirpas	Phone	N/A	Bill called and said we could work directly with his attorney, Richard Yoss.
7/20/2020	Dwight Jones	Jason Yoss	Email	N/A	Received email from Jason Yoss with an addendum that his firm has used in the past.
7/21/2020	Dwight Jones	Jason Yoss	Email	N/A	Sent Mr. Yoss the latest lease proposal for Chirpas and asked him to review.
7/23/2020	Dwight Jones	Jason Yoss	Email	N/A	Received another addendum from Jason Yoss and the request to remove the Arbitration Clause.
7/23/2020	Dwight Jones	Jason Yoss	Phone	N/A	I called Mr. Yoss' office and left a message for him to call me.
7/28/2020	Dwight Jones	Jason Yoss	Email	N/A	Received email from Jason Yoss with a redline of the lease and addendum.
7/28/2020	Luke Bates	Jason Yoss	Email	N/A	Luke emailed Jason responding to his redline.
12. Regarding the following tract, the following contacts were made or attempted:					
Parcel Number: 01-003034.0000 (Tract 1a/b), 01-003029.0000 (Tract 2), 01-004010.0000 (Tract 7), 01-004004.0000 (Tract 29), and 01-004006.0000 (Tract 30) Owner's Name: Gulfport Energy Corporation					
Date	Eclipse Representative	Owner Representative	Method	Address of Contact	Response

12/10/2019	Austin Graybill	Zac McCoy	Email	N/A	Discussed with Zac potential purchase of Gulfport acreage in Crawford A and B units.
12/11/2019	Austin Graybill	Zac McCoy	Email	N/A	Sent detailed list of exact parcels and acreages we would need for development and are interested in purchasing.
12/12/2019	Austin Graybill	Zac McCoy	Email	N/A	Gulfport requested \$5k/acre and well data in exchange for the acreage.
12/12/2019	Austin Graybill	Zac McCoy	Email	N/A	Responded that Eclipse and Gulfport had recently completed purchase of similar acreage amount and remaining lease term for \$1k/acre and well data. Asked if we move forward with same terms.
12/13/2019	Austin Graybill	Zac McCoy	Email	N/A	Gulfport holding firm at \$5k/acre and well data.
1/7/2020	Austin Graybill	Zac McCoy	Email	N/A	Zac asked for update on their requested purchase price.
1/22/2020	Austin Graybill	Zac McCoy	Email	N/A	Informed Zac that we'd prefer to extend that laterals and purchase larger block of their acreage beyond current Crawford unit boundaries, offering \$2k per acre. Zac acknowledged and said he would pass along for feedback.
2/3/2020	Austin Graybill	Zac McCoy	Email	N/A	Emailed Zac for update on offer.
2/3/2020	Austin Graybill	Zac McCoy	Email	N/A	Zac responded. No update at this time due to size of the deal.
2/13/2020	Austin Graybill	Zac McCoy	Email	N/A	Emailed Zac for update on offer.
2/13/2020	Austin Graybill	Zac McCoy	Email	N/A	Zac responded. Reservoir reviewing.
3/3/2020	Austin Graybill	Zac McCoy	Email	N/A	Emailed Zac for update on offer.
3/20/2020	Austin Graybill	Zac McCoy	Email	N/A	Zac responded with counter proposal of a trade or larger purchase.
4/7/2020	Austin Graybill	Zac McCoy	Email	N/A	Responded to Gulfport proposal with either an altered trade scenario or smaller purchase focusing only on immediate Crawford area.
4/9/2020	Austin Graybill	Zac McCoy	Email	N/A	Additional information exchanged regarding altered trade proposal.
4/13/2020	Austin Graybill	Zac McCoy	Email	N/A	Revised purchase offer terms provided to Gulfport due to drastically reduced commodity prices since discussion began.

4/22/2020	Austin Graybill	Zac McCoy	Email	N/A	Asked Zac for update.
4/22/2020	Austin Graybill	Zac McCoy	Email	N/A	Nothing at this time, Reservoir still reviewing.
4/27/2020	Austin Graybill	Zac McCoy	Email	N/A	Emailed again for update.
5/6/2020	Austin Graybill	Zac McCoy	Email	N/A	Emailed again for update. Zac responded that we should have an answer by the end of the week.
5/11/2020	Austin Graybill	Zac McCoy	Email	N/A	Emailed for update. Zac responded that their management was meeting to discuss today.
5/12/2020	Austin Graybill	Zac McCoy	Email	N/A	Zac responded indicating they were going to hold off on responding to our proposal while department heads at each company discuss potential larger deal.
6/8/2020	Austin Graybill	Zac McCoy	Email	N/A	Emailed Zac that we would like to focus on working out a deal for the Crawford acreage.
6/11/2020	Austin Graybill	Zac McCoy	Email	N/A	Zac responded that they would be willing to proceed with discussions and requested additional info.
6/11/2020	Austin Graybill	Zac McCoy	Email	N/A	Provided requested info for review.
6/29/2020	Austin Graybill	Zac McCoy	Email	N/A	Emailed asking for update.
6/30/2020	Austin Graybill	Zac McCoy	Email	N/A	Basic terms agreed to, moving forward.
7/8/2020	Brad Secrist	Zac McCoy	Email	N/A	Agreement provided to Gulfport for initial review.
7/15/2020	Austin Graybill	Zac McCoy	Email	N/A	Gulfport provided redline comments for agreement.
7/15/2020	Austin Graybill	Zac McCoy	Email	N/A	Exhibits for agreement provided to Gulfport for review.
7/17/2020	Brad Secrist	Zac McCoy	Email	N/A	Redline comments passed back and forth.
7/20/2020	Brad Secrist	Zac McCoy	Email	N/A	Additional comments on agreement passed back and forth.
7/22/2020	Austin Graybill	Zac McCoy	Email	N/A	Zac confirmed Janet Greene lease has expired.
7/27/2020	Brad Secrist	Zac McCoy	Email	N/A	Additional comments on agreement passed back and forth.
7/27/2020	Austin Graybill	Zac McCoy	Email	N/A	Gulfport provided lease files for review.
7/30/2020	Austin Graybill	Zac McCoy	Email	N/A	Confirmed that Curtis Stephens lease is not valid.
13. Regarding the following tract, the following contacts were made or attempted:					

Parcel Numbers: 01-004010.0000 (Tract 7) Owner's Name: Judith W. Stephens and Curtis L. Stephens					
Date	Eclipse Representative	Owner Representative	Method	Address of Contact	Response
7/30/2020	Austin Graybill	Zac McCoy	Email	N/A	Emailed Gulfport to let them know we did not receive a copy of Stephens lease for review. They responded confirming original lease bonus was never paid.
7/30/2020	Austin Graybill		Email	N/A	Notified Eclipse field team to pursue lease from Curtis Stephens.
14. Regarding the following tract, the following contacts were made or attempted:					
Parcel Numbers: 01-004006.0000 (Tract 30) Owner's Name: Janet L. Greene					
Date	Eclipse Representative	Owner Representative	Method	Address of Contact	Response
7/22/2020	Austin Graybill	Zac McCoy	Email	N/A	Emailed Zac about the term of existing Janet Greene lease, but he confirmed that lease had expired
7/23/2020	Dwight Jones	Janet L. Greene	Phone	N/A	Tried 8 different phone numbers found online and left messages on two of them.
7/23/2020	Dwight Jones	Janet L. Greene	Mail	18981 NW 243 Rd High Springs, FL 32643	Mailed disclosure form.

Attachment 2 Exhibit 8

EXHIBIT 8
STATE OF OHIO
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS RESOURCES MANAGEMENT

In re the Matter of the Application of Eclipse :
Resources I, LP for Unit Operation :
: Application Date: May 1, 2020
: Supplement Date: May 29, 2020
Crawford B Unit :

DUE DILIGENCE AFFIDAVIT

I, Austin Graybill, 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, Austin Graybill is employed at Eclipse Resources I, LP and my daily responsibilities include unit formation, lease analysis, creating and obtaining joint operating agreements from competitors. I also contact various landowners, working interest competitors and partners to negotiate oil and gas leases and/or working interest approvals.
3. Affiant has the authority to sign this Affidavit on behalf of Eclipse Resources I, LP (“Eclipse”).
4. Pursuant to Ohio Revised Code § 1509.28, Eclipse is filing an application with the Chief of the Division of Oil and Gas Resources Management (DOGRM) requesting an order authorizing Eclipse to operate the Unitized Formation and applicable land area, identified as the Crawford B Unit. The Crawford B Unit is located in Monroe County, Ohio, and as a unit of an entire pool or part thereof consists of thirty (30) separate tracts of land covering approximately 594.916 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 Eclipse’s efforts to identify and locate mineral interest owners within the proposed unit.
6. Affiant attests that Eclipse acted with due diligence, and will continue to, to identify all mineral interest owners within the proposed unit and ascertain their current addresses. These efforts include diligently reviewing county public records to determine mineral ownership. Affiant further attests that where it was not reasonably possible or practicable to identify mineral interest owners’ identities or addresses, Eclipse will provide notice by publication of a hearing scheduled pursuant to R.C. 1509.28.

7. Eclipse attests that, to the best of its knowledge, the names and addresses it has provided to DOGRM are accurate.
8. Affiant understands that the DOGRM is relying on the statements and representations contained in this Affidavit to verify that Eclipse has acted with all due diligence to identify and locate mineral interest owners for tracts contained within the proposed unit. Further, Eclipse understands its duty to provide to DOGRM updated mineral interest owner's information as soon as is practicable, and understands that updated information (e.g., identifying a previously unknown heir) may result in a new or rescheduled unitization hearing.
9. Affiant states that the above is a true and accurate to the best of Affiant's knowledge and belief.

FURTHER AFFIANT SAYETH NAUGHT.



By: Austin Graybill
Senior Landman

STATE OF TEXAS)

)ss:

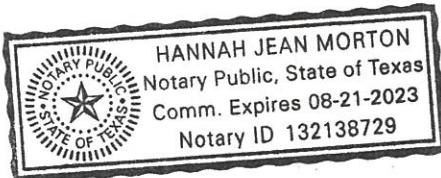
COUNTY OF DALLAS)

Sworn to and subscribed before me this 28th day of May, 2020, by Austin Graybill.



Notary Public

My commission expires: August 21, 2023



Attachment 2 Exhibit 9

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

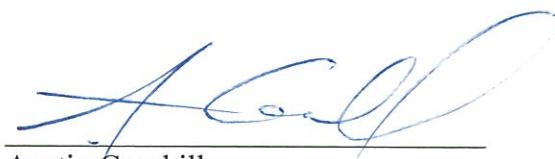
In re the Matter of the Application of :
Eclipse Resources I, LP, for Unit Operation :
Crawford B Unit : Application Date: May 1, 2020
: Supplement Date: May 29, 2020
:

AFFIDAVIT OF OWNERSHIP

I, Austin Graybill, being first duly cautioned and sworn, do hereby depose and state as follows:

1. My name is Austin Graybill and I am a Senior Landman with Eclipse Resources I, LP (the "Applicant"). My day-to-day responsibilities include overseeing and directing lease acquisition for the Applicant in the State of Ohio.
2. As a result of my responsibilities, I have personal knowledge of the matters set forth in this affidavit and the following information is true to the best of my knowledge and belief.
3. Pursuant to Ohio Revised Code § 1509.28, the Applicant is filing herewith an application with the Chief of the Division of Oil and Gas Resources Management requesting an order authorizing the Applicant to operate the Unitized Formation and applicable land area, identified as the Crawford B Unit, according to the Unit Plan attached thereto (the "Application") (as those terms are used and defined therein). The Crawford B Unit located in Monroe County, Ohio consists of thirty (30) separate tracts of land totaling approximately 594.916 acres.
4. As of the Application Date set forth above, the Applicant and Working Interest Owners supporting the Application 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.

Further Affiant sayeth naught.

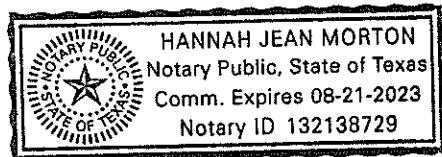


Austin Graybill

STATE OF TEXAS)
)
COUNTY OF DALLAS) SS

Sworn to and subscribed before me this 28th day of May, 2020.

Notary Public



Attachment 2 Exhibit 10

Exhibit 10

SUNSBURY

SWITZERLAND

ADAMS

GREEN

Montoe

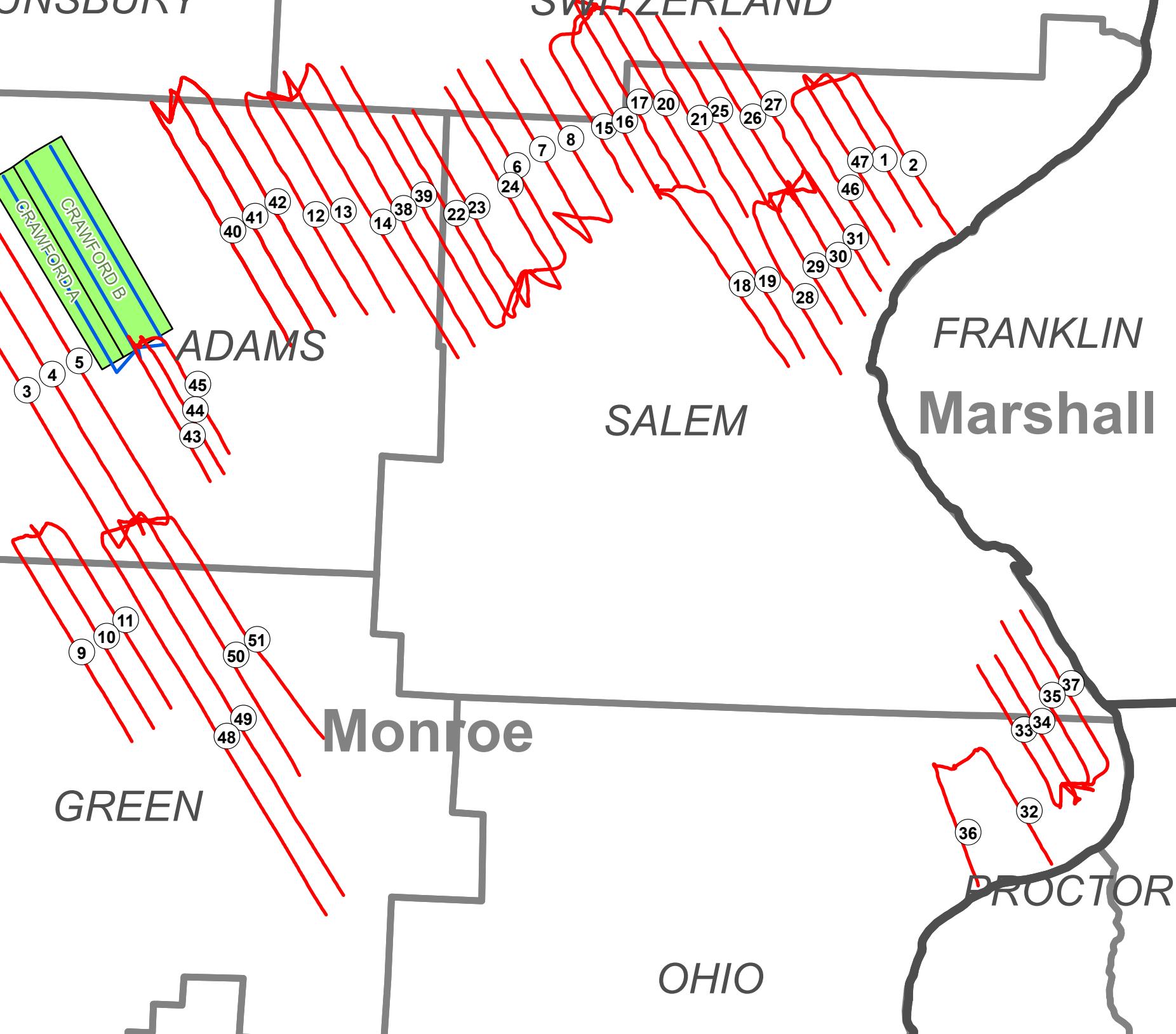
SALEM

FRANKLIN

Marshall

PROCTOR

OHIO



Map ID	Well Name	API	Map ID	Well Name	API	Map ID	Well Name	API	Map ID	Well Name	API
1	Ballpark 2H	34111248020000	14	Craig Miller B 6H	34111248540000	27	Moser A 5H	34111246290000	40	Pyles B 4H	34111248650000
2	Ballpark 4H	34111248030000	15	Dietrich A 2H	34111245730000	28	Moser C 2H	34111246270000	41	Pyles C 6H	34111248660000
3	Bluebonnet A 1H	34111248840000	16	Dietrich A 4H	34111245720000	29	Moser C 4H	34111246260000	42	Pyles C 8H	34111248670000
4	Bluebonnet B 3H	34111248840000	17	Dietrich A 6H	34111245710000	30	Moser C 6H	34111246250000	43	Sawyers 4H	34111245160000
5	Bluebonnet C 5H	34111248850000	18	Dietrich C 4H	34111245810000	31	Moser C 8H	34111246820000	44	Sawyers 6H	34111245170000
6	Circosta 1H	34111246090000	19	Dietrich C 6H	34111245820000	32	Ormet 11-15UH	34111247770100	45	Sawyers 8H	34111245150000
7	Circosta B 1H	34111247760000	20	Fuchs A 2H	34111245700000	33	Ormet 4-9UH	34111245830000	46	Shroyer 2H	34111244160000
8	Circosta B 3H	34111247750000	21	Fuchs A 4H	34111245740000	34	Ormet 5-9UH	34111245840000	47	Shroyer 4H	34111244150000
9	Coyote A 2H	34111249080000	22	Holliday A 1H	34111245920000	35	Ormet 6-9UH	34111245850000	48	Wiley D 8H	34111247970000
10	Coyote A 4H	34111249070000	23	Holliday A 3H	34111245910000	36	Ormet 7-15UH	34111244560000	49	Yellow Rose A 2H	34111247990000
11	Coyote B 6H	34111249060000	24	Holliday B 7H	34111245960000	37	Ormet 7-9UH	34111247580000	50	Yellow Rose B 4H	34111247980000
12	Craig Miller A 2H	34111248530000	25	Moser A 1H	34111246310000	38	Pittman 2H	34111245930000	51	Yellow Rose C 6H	34111247950000
13	Craig Miller A 4H	34111248560000	26	Moser A 3H	34111246300000	39	Pittman 3H	34111246100000			

Eclipse Resources

Crawford A & B Units
- Offset Wells -

Date: 5/26/2020 Author: Benjamin Weaver

Coordinate System:
NAD 1927 StatePlane Ohio South FIPS 3402

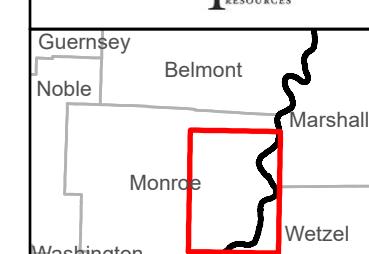
1 inch = 5,537 feet



0 0.3 0.6 0.9 1.2 1.5 Miles

Legend

- Offset Producing Laterals
- Planned Laterals
- Unit Boundary



Revised 5/29/2020

Exhibit 10 Page 2

Map ID	Well Name	API	Lateral Length	Production Start Date
1	Ballpark 2H	34111248020000	7665	5/24/2018
2	Ballpark 4H	34111248030000	8098	5/27/2018
3	Bluebonnet A 1H	34111248840000	15572	2/19/2020
4	Bluebonnet B 3H	34111248840000	15570	2/19/2020
5	Bluebonnet C 5H	34111248850000	15714	2/19/2020
6	Circosta 1H	34111246090000	9613	12/20/2016
7	Circosta B 1H	34111247760000	8729	4/18/2018
8	Circosta B 3H	34111247750000	7723	4/18/2018
9	Coyote A 2H	34111249080000	9855	6/1/2020
10	Coyote A 4H	34111249070000	9852	6/1/2020
11	Coyote B 6H	34111249060000	9485	6/1/2020
12	Craig Miller A 2H	34111248530000	10334	11/15/2019
13	Craig Miller A 4H	34111248560000	10602	11/15/2019
14	Craig Miller B 6H	34111248540000	14411	11/15/2019
15	Dietrich A 2H	34111245730000	7459	11/20/2015
16	Dietrich A 4H	34111245720000	8386	11/21/2015
17	Dietrich A 6H	34111245710000	8732	11/23/2015
18	Dietrich C 4H	34111245810000	9161	12/1/2015
19	Dietrich C 6H	34111245820000	8446	12/4/2015
20	Fuchs A 2H	34111245700000	8955	11/24/2015
21	Fuchs A 4H	34111245740000	10500	11/26/2015
22	Holliday A 1H	34111245920000	10098	12/4/2016
23	Holliday A 3H	34111245910000	9944	12/2/2016
24	Holliday B 7H	34111245960000	10007	12/15/2016
25	Moser A 1H	34111246310000	9725	6/3/2017
26	Moser A 3H	34111246300000	7652	6/5/2017
27	Moser A 5H	34111246290000	7652	6/5/2017
28	Moser C 2H	34111246270000	7880	6/11/2017
29	Moser C 4H	34111246260000	5950	6/14/2017
30	Moser C 6H	34111246250000	6146	6/11/2017
31	Moser C 8H	34111246820000	5513	6/10/2017
32	Ormet 11-15UH	34111247770100	5662	3/11/2018
33	Ormet 4-9UH	34111245830000	6685	10/13/2018
34	Ormet 5-9UH	34111245840000	6827	10/10/2018
35	Ormet 6-9UH	34111245850000	7527	10/7/2018
36	Ormet 7-15UH	34111244560000	5248	3/11/2018
37	Ormet 7-9UH	34111247580000	7667	10/4/2018
38	Pittman 2H	34111245930000	14337	11/22/2019
39	Pittman 3H	34111246100000	13335	12/10/2016
40	Pyles B 4H	34111248650000	12023	8/14/2019
41	Pyles C 6H	34111248660000	11894	8/14/2019
42	Pyles C 8H	34111248670000	10642	8/14/2019
43	Sawyers 4H	34111245160000	6563	6/29/2015
44	Sawyers 6H	34111245170000	6566	6/26/2015
45	Sawyers 8H	34111245150000	5845	6/24/2015
46	Shroyer 2H	34111244160000	7949	8/11/2014

Exhibit 10 Page 3

47	Shroyer 4H	34111244150000	6608	8/21/2014
48	Wiley D 8H	34111247970000	19337	9/1/2018
49	Yellow Rose A 2H	34111247990000	18965	9/11/2018
50	Yellow Rose B 4H	34111247980000	13241	9/9/2018
51	Yellow Rose C 6H	34111247950000	11504	9/2/2018

Revised 5/29/2020

Attachment 3

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

In re the Matter of the Application of :
Eclipse Resources I, LP, for :
Unit Operation : Application Date: May 1, 2020
: :
Crawford B Unit :

**PREPARED TESTIMONY OF ERIKA DAVIS ON BEHALF OF ECLIPSE
RESOURCES I, LP (“ECLIPSE”)**

J. Taylor Airey (0081092)
Eclipse Resources I, LP
122 West John Carpenter Freeway, Suite 300
Irving, Texas 75039

Attorney for Applicant,
Eclipse Resources I, LP

Attachment 3

PREPARED DIRECT TESTIMONY OF ERIKA DAVIS

INTRODUCTION

Q1. Please introduce yourself to the Division.

A1. My name is Erika Davis, and I am Senior Operations Geologist for Eclipse Resources I, LP (“Eclipse”). My business address is 122 West John Carpenter Freeway, Suite 300, Irving, Texas 75039.

Q2. What is your educational background?

A2. I received my undergraduate degree in Geology from New Mexico Institute of Mining and Technology in 1999 and my Master’s degree in Geology from the University of Massachusetts at Amherst in 2004.

Q3. Would you briefly describe your professional experience?

A3. I worked for QEP Resources as a Senior Geologist for ten years in Denver. I joined Eclipse Resources in May 2017. I have worked primarily in the Rocky Mountain Basins in conventional and unconventional resource plays until recently, when, I began work in the Utica/Point Pleasant formation.

Q4. What do you do as a Senior Operations Geologist for Eclipse?

A4. I work on the evaluation of shale resource plays in the Appalachian Basin, including the Utica / Point Pleasant formation. Specifically, I use subsurface data from wells, and other data, to evaluate the potential of the Utica / Point Pleasant formation.

Q5. What types of subsurface data are you analyzing?

A5. I analyze well log information from previously drilled wells and available seismic data.

Q6. Are you a member of any professional associations?

A6. Yes, I am a member of the American Association of Petroleum Geologists, Rocky Mountain Association of Geologists, Women’s Energy Network and Women in Oil and Gas.

Q7. What is the purpose of your testimony today?

A7. I am testifying in support of the *Application of Eclipse Resources I, LP for Unit Operation* filed with respect to the Crawford B Unit as specifically described in Exhibit A and A-1 of the Unit Operating Agreement. My testimony will show that

the Unitized Formation described in the Application is part of a pool and thus an appropriate subject of unitization. Additionally, my testimony will support the Unit Plan's allocation of unit production and expenses to separately owned tracts on a surface-acreage basis, based on the unit area's nearly uniform thickness and substantially similar geological characteristics throughout.

UNITIZED FORMATION IS PART OF A POOL.

Q8. To begin, would you tell me what a “pool” is?

A8. A pool is understood to be an accumulation of hydrocarbons trapped within the pores of a rock. This is consistent with the Ohio statutory definition defining a pool as “an underground reservoir containing a common accumulation of oil or gas, or both, but does not include a gas storage reservoir.”

Q9. How is the Unitized Formation defined for the Crawford B Unit?

A9. It is defined as the subsurface portion of the Crawford B Unit located between fifty (50') above the top of the Utica formation to fifty (50') below the top of the Trenton formation.

Q10. Do you have an opinion on whether or not the Unitized Formation contemplated by the Crawford B Unit constitutes a pool or part of a pool?

A10. Yes. It is my opinion, based on my education and professional experience, that the Unitized Formation under the Crawford B Unit qualifies as part of a pool.

Q11. Why?

A11. My evaluation of the subsurface data indicates that the Utica / Point Pleasant formation is present under the Crawford B Unit. Because there is no impermeable layer separating the Utica and Point Pleasant formation, they are indeed a pool. The Utica / Point Pleasant formation is an unconventional reservoir which has streaks of better and worse porosity throughout the section. Microseismic data indicates that we do stimulate the Utica and Point Pleasant formation. Fracture stimulation of the section should connect much of this porosity, and it is reasonable to assume that all of it will contribute to the resulting production.

Q12. When you refer to the Utica / Point Pleasant formation, to what are you referring?

A12. The Utica / Point Pleasant formation is the term used to describe the subsurface formation from the top of the Utica formation to the top of the Trenton formation.

Q13. Is your opinion based on your education and professional experience?

A13. Yes, my opinion is based on my education and professional experience.

Q14. And is this a commonly accepted method of analysis in your profession for determining whether a pool or part of a pool exists?

A14. Yes, this is a commonly accepted industry approach in defining what is a pool or part of a pool.

ALLOCATION METHODOLOGY

Q15. Production and expenses are allocated to the separate tracts in the Crawford B Unit under the Unit Plan on a surface-acreage basis. Do you have an opinion on whether that allocation method is appropriate, given your education and professional experience?

A15. I do. In my opinion, that allocation methodology is appropriate.

Q16. Why?

A16. Because the Utica / Point Pleasant formation is expected to be similar in thickness and productive quality throughout the entirety of the Crawford B Unit.

Q17. Do you have any exhibits to help explain your testimony?

A17. Yes, Attachment 2, Exhibit 1 and Attachment 2, Exhibit 2. Attachment 2, Exhibit 1 shows a cross section map of the location of the Crawford B well pad and surrounding wells while Attachment 2, Exhibit 2 is a wireline log from two (2) wells close in proximity to the Crawford B Unit. As you can see from the cross-section of wireline logs, the Utica / Point Pleasant formation is similar in thickness and character under the Crawford B Unit. Therefore, I expect similar production and gas in place of the Utica / Point Pleasant formation under the entire Crawford B Unit.

Q18. In your experience, is this a common method for allocating production and expenses?

A18. Yes, this is a commonly accepted practice in the industry, especially in shale plays.

Q19. Have you seen this allocation method used in other unconventional plays?

A19. Yes, in the Shannon and Sussex Sandstone.

Q20. Does this conclude your testimony?

A20. Yes.

Attachment 4

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

In re the Matter of the Application of :
Eclipse Resources I, LP for Unit Operation :
: Application Date: May 1, 2020
: Supplement Date: May 29, 2020
Crawford B Unit :

**PREPARED TESTIMONY OF ADAM A. CAPUTO
ON BEHALF OF ECLIPSE RESOURCES I, LP**

J. Taylor Airey (0081092)
Eclipse Resources I, LP
122 West John Carpenter Freeway, Suite 300
Irving, Texas 75039

Attorney for Applicant,

Eclipse Resources I, LP

Attachment 4

PREPARED DIRECT TESTIMONY OF ADAM A. CAPUTO

1 **INTRODUCTION.**

2 **Q1. Please introduce yourself to the Division.**

3 A1. My name is Adam A. Caputo. I am a Reservoir Engineer with Eclipse Resources I,
4 LP.

5 **Q2. What is your educational background?**

6 A2. I received a Bachelor in Science Degree in Petroleum Engineering from Texas Tech
7 University in 2011.

8 **Q3. Would you briefly describe your professional experience?**

9 A3. I have worked in multiple basins over my 6 years in the industry. I started working
10 for Encana in 2011 in East Texas as a Production Engineer working Haysville and in
11 2013 became a Reservoir engineer working an exploration project in Eagle Ford. I
12 then worked Marcellus and Utica shale wells for Stone Energy from 2014-2016. My
13 responsibilities included analyzing and optimizing well performance. In addition I
14 was responsible for completing the reserve estimations for the Appalachia assets. I
15 accepted my current position at Eclipse Resources as the Manager of Reserves in
16 August of 2016.

17 **Q4. What do you do as a Reservoir Engineer for Eclipse?**

18 A4. At Eclipse, My primary responsibility is to estimate oil and gas reserves and the net
19 value to the company. I provide economic evaluations for internal projects as well
20 as assist in asset evaluation for potential acquisitions.

21 **Q5. Are you a member of any professional associations?**

22 A5. I am a member of the Society of Petroleum Engineers.

23 **Q6. What is the purpose of your testimony today?**

24 A6. I am testifying in support of the *Application of Eclipse Resources I, LP for Unit*
25 *Operation* filed with respect to the Crawford B Unit as specifically described in
26 Exhibit A and A-1 to the Unit Operating Agreement. My testimony addresses the
27 following: (i) that unit operations for the Crawford B Unit are reasonably necessary
28 to increase substantially the recovery of oil and gas; and (ii) that the value of the
29 estimated additional recovery due to unit operations exceeds its estimated additional
30 costs.

1 **UNIT OPERATIONS ARE REASONABLY NECESSARY TO INCREASE**
2 **SUBSTANTIALLY THE RECOVERY OF OIL AND GAS.**

3 **Q7. Would you describe briefly how Eclipse anticipates developing the Crawford B**
4 **Unit?**

5 A7. Eclipse plans to drill two lateral wells being the 3H of approximately 9,744 feet in
6 length and the 5H 9,772 feet in length to develop the Crawford B Unit. The
7 development plan for the Crawford B Unit is demonstrated in Attachment 2, Exhibit
8 4.

9 **Q8. Do you have an opinion on whether unit operations in the Crawford B Unit are**
10 **reasonably necessary to increase substantially the recovery of oil and gas from**
11 **the unit properties, and if so, what is your opinion?**

12 A8. Yes. It is my opinion that unit operations are reasonably necessary to increase
13 substantially the recovery of oil and gas from the unit properties. I estimate that
14 production from the Crawford B Unit could be as much as 43 Bcf of natural gas. This
15 estimate is based on Eclipse's flow tests in the area, limited competitor production
16 data, public investor press releases, and reasonable engineering assumptions derived
17 from studying other shale reservoirs. Further, my estimations of the production
18 without an order granting unitized operations on the Crawford B Unit are detailed on
19 Attachment 2, Exhibit 5. Due to both (i) the location of the unleased parcels, and (ii)
20 set-back requirements that prevent development of adjacent leased parcels, without
21 an order for unit operations, the proposed horizontal wells must be shortened by
22 approximately 18,750 feet in length leaving only 766 feet available to be drilled.

23 **Q9. Are the estimates that you made based on good engineering practices and**
24 **accepted methods in the industry?**

25 A9. Yes.

26 **Q10. Can you calculate the production from these wells ahead of time with**
27 **mathematical certainty?**

28 A10. Projecting production during early phases of development of a shale formation, such
29 as the Utica / Point Pleasant, is especially difficult.

30 **Q11. Is horizontal drilling technology, including hydraulic fracturing the formation,**
31 **required to economically develop unconventional resources?**

1 A11. Yes.

2 **Q12. Is horizontal drilling common in the oil and gas industry?**

3 A12. Yes.

4 **Q13. Is it fair to say that horizontal wells are commonly used to develop shale**
5 **formations like the Utillized Formation today?**

6 A13. Yes.

7 **Q14. In your professional opinion, would it be economic to develop the Crawford B**
8 **Unit using vertical drilling?**

9 A14. No. You simply cannot get the volume of production that you would need to make
10 the development economic. Horizontal drilling combined with multi-stage hydraulic
11 fracturing increases the reservoir contact with the well bore, which increases the
12 volume you can produce. Substantial exposure to the reservoir using horizontal wells
13 is essential to economically and effectively develop unconventional shale reservoirs
14 like the Utica / Point Pleasant.

15 **VALUE OF ESTIMATED ADDITIONAL RECOVERY EXCEEDS ITS**
16 **ESTIMATED ADDITIONAL COSTS**

17 **Q15. Let's turn to the financial side of the project. Generally, in your professional**
18 **experience, how would the economics of a development project such as the**
19 **development of the Crawford B Unit be evaluated?**

20 A15. Generally, an economic evaluation is performed by predicting oil, natural gas, and
21 natural gas liquids production and applying the appropriate commodity price deck to
22 calculate revenue. Capital costs, operating expenses, royalty burden, and taxes would
23 then be applied to perform an economic evaluation.

24 **Q16. Did you do that here?**

25 A16. Yes.

26 **Q17. Would you walk us through your economic evaluation, beginning with your**
27 **estimate of the anticipated revenue stream from the Crawford B Unit's**
28 **development?**

29 A17. Of course. The production stream I used, previously discussed, was first netted for a
30 royalty burden. I then applied a flat price for natural gas, using the NYMEX strip
31 price, subtracting any anticipated basis differential and correcting for heat value

1 content in the natural gas. This natural gas price is based on individual product
2 pricing, subtracting out any additional fees for transportation and marketing.

3 **Q18. What about anticipated capital and operating expenses?**

4 A18. Capital costs are associated with the construction, drilling, completion, and facilities.
5 Operations engineers provided detailed cost estimates for the proposed well included
6 in the Crawford B Unit. Monthly operating expenses were estimated from our
7 experience in other Utica / Point Pleasant Shale wells and our contractual fees with
8 associated service providers. The cost per well is explained on Attachment 2, Exhibit
9 5.

10 **Q19. Based on this information and your professional judgment, does the value of the
11 estimated recovery from the operations proposed for the Crawford B Unit
12 exceed its estimated costs?**

13 A19. Yes. The net present value (PV(10)), which accounts for capital expenditures and
14 operating costs with unit operations is approximately \$20.636 million. Assuming a
15 unit order is granted the gross value of production is \$47.188 million. The PV(10)
16 without an order authorizing unit operations indicates that such an operations would
17 not offset the cost development as the value is negative approximately \$9.795 million
18 such a development would not be pursued. Assuming there is no unit order the gross
19 value of production is \$1.748 million.

20 **Q20. Did you assess the development of the area covering the Crawford B Unit if unit
21 operations do not occur?**

22 A20. Yes. The attached Attachment 2, Exhibit 3 depicts the possible development of the
23 unit area covering the Crawford B Unit if the proposed unit operations do not occur.
24 As shown on the attached exhibit, in the absence of unit operations, the unit well
25 must be significantly shortened which results in a significant reduction in both
26 potential production and value. The estimates generated for regarding the non-
27 unitized Crawford B Unit development are set out in detail in Attachment 2 Exhibit
28 5.

29 **Q21. Do you have an opinion as to whether the value of the estimated additional
30 recovery from the proposed Crawford B Unit operations exceeds the
31 operation's estimated additional costs?**

1 A21. I do. The proposed unit operations add approximately \$6.92 million to the unit
2 development costs. As a result of that increased expenditure the net present value
3 (PV-10) of the project increases approximately \$20.636 million. Also resulting from
4 that increased expenditure the gross value of production increases \$45.44 million.

5 **Q22. Would you explain?**

6 A22. Yes. Through the proposed unitization, Eclipse is able to completely develop the
7 Crawford B Unit and as a result, the PV-10, which is net of costs, increases by
8 approximately \$20.636 million over the possible development without a unit order.

9 **Q23. And your opinions are based on your education and professional experience?**

10 A23. Yes.

11 **Q24. Does this conclude your testimony?**

12 A24. Yes.

Attachment 5

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

In re the Matter of the Application of :
Eclipse Resources I, LP for Unit Operation :
: Application Date: May 1, 2020
: Supplement Date: May 29, 2020
Crawford B Unit : Leasing Update: August 3, 2020

PREPARED TESTIMONY OF AUSTIN GRAYBILL
ON BEHALF OF ECLIPSE RESOURCES I, LP (“ECLIPSE”)
(LANDMAN)

J. Taylor Airey (0081092)
Eclipse Resources I, LP
122 West John Carpenter Freeway, Suite 300
Irving, Texas 75039

Attorney for Applicant,
Eclipse Resources I, LP

Attachment 5

PREPARED DIRECT TESTIMONY OF AUSTIN GRAYBILL

1 INTRODUCTION.

2 Q1. Please introduce yourself to the Division.

3 A1. My name is Austin Graybill and I am a Senior Landman for Eclipse Resources I, LP
4 (Eclipse).

5 Q2. What is your educational background?

6 A2. I have a Bachelor of Science degree in Wood Products from the Pennsylvania State
7 University in State College, Pennsylvania.

8 Q3. Would you briefly describe your professional experience?

9 A3. I have more than ten years of professional experience as a landman. I began my ca-
10 reer in 2006 working for T.S Calkins and Assoc., Inc. in Bradford, Pennsylvania. I
11 was tasked with the following responsibilities: (1) acquiring leases and rights of way
12 in the States of New York and Pennsylvania; (2) acquire location approvals for con-
13 struction of well locations and pipelines; (3) cure title in preparation for drilling of
14 wells. In April 2013, I joined Eclipse as a landman.

15 Q4. What do you do as a Senior Landman for Eclipse?

16 A4. I am responsible for managing land assets in Ohio. My daily responsibilities include
17 unit formation, lease analysis, creating and obtaining joint operating agreements from
18 competitors. I also contact various landowners, working interest competitors and part-
19 ners to negotiate oil and gas leases and/or working interest approvals.

20 Q5. Are you a member of any professional associations?

21 A5. Yes, I am a member of the American Association of Professional Landmen.

22 Q6. What is the purpose of your testimony today?

23 A6. I am testifying in support of the Application of Eclipse Resources I, LP for Unit Op-
24 eration filed with respect to the Crawford B Unit, as specifically described in Exhibit
25 A and A-1 to the Unit Operating Agreement. In particular, I will describe the efforts
26 made by Eclipse to put the Crawford B Unit together and the Unit Plan that Eclipse is
27 proposing.

28 EFFORTS MADE BY ECLIPSE TO LEASE UNIT TRACTS.

1 Q7. The Application submitted by Eclipse indicates that it owns the oil and gas rights
2 to more than 482.492 acres of the proposed 594.916 acre unit. Would you de-
3 scribe how Eclipse acquired those rights?

4 A7. Eclipse acquired a majority of its oil and gas rights through leasing efforts between
5 2012 and 2020. In the last two years, Eclipse acquired its remaining oil and gas rights
6 via trades with several competitors. Eclipse owns approximately 81.10256% of the
7 unit or 482.492 acres.

8 Q8. Are there other operators in the unit?

9 A8. Yes. Gulfport Energy Corporation owns interests in the Crawford B Unit in Tract
10 Nos. 1a, 1b, 2, 7, 29 and 30 which amounts to 16.396 acres of the unit or 2.75595%
11 interest in the unit.

12 Q9. Has Gulfport committed to participating in operations of the Crawford B Unit?

13 A9. As of this filing Eclipse and Gulfport have not reached an agreement regarding inclu-
14 sion of Gulfport's interest in the Crawford B Unit. The interest of Gulfport is interest
15 is broken down in detail on Exhibit A-2 and A-5 of the Unit Operating Agreement.

16 Q10. Please describe any unleased interest in the Crawford B Unit?

17 A10. There are several unleased mineral owners in the Crawford B Unit. These unleased
18 mineral owners own interests in Tract Nos. 1a, 1b, 2, 3, 4, 6b, 7, 10, 11, 13, 17, 18
19 and 30 – being 22.75754% of the unit acreage or 135.388 acres of the Crawford B
20 Unit.

21 Q11. Who are these unleased mineral owners?

22 A11. A number of the owners are the holders of fractional interests in the oil and gas un-
23 derlying several different parcels within the unit. The majority of these interests were
24 created by the severance of the oil and gas estates that took place in the late 19th cen-
25 tury or early 20th century. These interests are broken down in detail on Exhibit A-3 of
26 the Unit Operating Agreement.

27 Q12. Has Eclipse attempted to obtain leases from these unleased mineral owners?

28 A12. Yes, Eclipse has attempted to lease each of the unleased mineral owners.

29 **Q13. Have you prepared an affidavit detailing Eclipse's efforts to obtain a lease from**
30 **the unleased mineral owners?**

1 A13. Yes, an Affidavit of Contacts details Eclipse's efforts to obtain voluntary lease agree-
2 ments from the unleased mineral interest owners. This affidavit is attached as Attach-
3 ment 2, Exhibit 7 to this Application.

4 **Q14. Do you have an exhibit to your testimony that illustrates both leased and un-**
5 **leased tracts and uncommitted working interests and committed working inter-**
6 **ests in the Crawford B Unit?**

7 A14. Yes, Attachment 2, Exhibit 3 to this Application is a color-coded plat map showing
8 both leased (to any committed working interest owner) unleased tracts and uncommi-
9 ted and committed working interests within the Crawford B Unit. The leased tracts
10 are shown in yellow and the unleased tracts are in red.

11 **Q15. Do you have an aerial plat of the Crawford B Unit?**

12 A15. Yes, an aerial plat of the Crawford B Unit is attached as Attachment 2, Exhibit 4 to
13 the Application.

14 **UNIT PLAN PROVISIONS.**

15 **Q16. Would you describe, generally, the development plan for the Crawford B Unit?**

16 A16. Yes. As shown in Attachment 2, Exhibit 4 to the Application, Eclipse intends to de-
17 velop the Crawford B Unit by drilling two horizontal wells each of approximately
18 8,651 feet in length from an existing well pad located off the southern portion of the
19 unit. The approximate location of the laterals are depicted on Attachment 2, Exhibit 3
20 to the Application.

21 **Q17. Does Eclipse have a specific timeline for drilling the well in the Crawford B
22 Unit?**

23 A17. We anticipates drilling the wells as early as the Fall of 2020.

24 **Q18. Does Eclipse have any other development activity in the immediate area?**

25 A18. Yes. Attachment 2, Exhibit 6 depicts the development units operated by Eclipse in the
26 immediate area of the proposed Crawford B Unit.

27 **Q19. Are you familiar with the Unit Plan proposed by Eclipse for the Crawford B
28 Unit?**

29 A19. Yes. The Unit Plan proposed by Eclipse is attached to the Application and consists of
30 an initial document that establishes the non-operating relationship between the parties

1 in the unit, and an operating agreement and related exhibits that establish how the unit
2 is going to be explored, developed and produced.

3 **Q20. Turning first to the body of the Unit Plan, marked as Attachment 1 to the Appli-**
4 **cation, would you describe briefly what it does?**

5 A20. Yes. The general intent of the Unit Plan is to effectively combine the oil and gas
6 rights and interests in the Crawford B Unit in a uniform manner so that they can be
7 developed as though each of the tracts were covered by a single lease.

8 **Q21. Are all of the oil and gas rights in the proposed unit combined?**

9 A21. No. The Unit Plan unitizes the oil and gas rights only in and related to the Unitized
10 Formation.

11 **Q22. How would production from the Crawford B Unit be allocated?**

12 A22. On a surface-acreage basis. Under Article 4 of the Unit Plan, every tract is assigned a
13 tract participation percentage based on surface acreage as shown on Exhibit A-2 to
14 the Unit Operating Agreement. Article 5 of the Unit Plan allocates production based
15 on that tract participation.

16 **Q23. Would you go through an example from Exhibit A-2 to the Unit Operating
17 Agreement to illustrate what you mean?**

18 A23. Yes. If you look at Exhibit A-2 to the Unit Operating Agreement “Tract Participa-
19 tion” shows the related tract participation of each tract, which is calculated by multi-
20 plying the decimal interest in the tract by the surface acres in the unit and dividing the
21 total number of surface acres in the tract included in the unit by the total number of
22 surface acres in the Crawford B Unit. On the same exhibit, if you were to refer to
23 Tract 1a, you will see that “Rady Moore” owns 50% of a tract of land in which 1.416
24 acres of said tract are located within the Crawford B Unit, which equates to a Tract
25 Participation of 0.0011901 ((1.416*0.5)/594.916 = 0.0011901 or 0.11901%).

26 **Q24. What does that mean in terms of production allocated to that particular tract?**

27 A24. It means that 0.0011901 or 0.11901% of the production in the unit would be allocated
28 to that interest in Tract 1a.

29 **Q25. Does it work the same way for an unleased mineral interest, that is, for the tract
30 of a person who did not lease the property in the unit?**

31 A25. Yes.

1 **Q26. In your experience, is that an unusual way to allocate production in a unit?**

2 A26. No. This method is a customary method for allocating production in a unit.

3 **Q27. How are unit expenses allocated?**

4 A27. Expenses are allocated in the same manner as production in the unit, on a sur-
5 face-acreage basis. Article 3 of the Unit Plan provides that expenses, unless otherwise
6 allocated in the Unit Operating Agreement, will be allocated to each tract of land
7 within the unit in the proportion that the surface acres of each tract included in the
8 unit bears to the surface acres of the entire unit.

9 **Q28. Who pays the unit expenses?**

10 A28. According to the terms of the proposed Unit Plan, the working interest owners.

11 **Q29. Do the royalty owners pay any part of the unit expenses?**

12 A29. No. Royalty owners do not pay any part of the unit expenses unless the terms and
13 conditions of the royalty owner's oil and gas lease so dictate.

14 **Q30. Let's turn to the Unit Operating Agreement. It appears to be based upon**

15 **A.A.P.L. Form 610 – Model Form Operating Agreement, is that correct?**

16 A30. Yes. We typically use a modified version of the 1989 agreement. The Form 610, to-
17 gether with its exhibits, is a commonly used form in the industry and is frequently
18 modified to fit the needs of the parties and circumstances.

19 **Q31. Would it be fair to say that you are familiar with the custom and usage of the**

20 **Form 610 and other similar agreements in the industry?**

21 A31. Yes.

22 **Q32. Turning to the Unit Operating Agreement in particular, does it address how unit**
23 **expenses are determined and paid?**

24 A32. Yes. Article III of the Unit Operating Agreement provides that all costs and liabilities
25 incurred in operations shall be borne and paid proportionately by the working interest
26 owners, according to their Unit Participation percentages. Those percentages can be
27 found in Exhibit A-2 to the Unit Operating Agreement. Moreover, the Unit Operating
28 Agreement has attached to it an accounting procedure identified as Exhibit C that of-
29 fers great detail regarding how unit expenses are determined and paid.

30 **Q33. That's commonly referred to as the COPAS?**

1 A33. Yes. That acronym stands for the Council of Petroleum Accountants Societies and is
2 a commonly used form in the industry.

3 **Q34. Based upon your education and professional experience, do you view the terms**
4 **of Exhibit C as reasonable?**

5 A34. Yes.

6 **Q35. Will there be in-kind contributions made by owners in the unit area for unit op-**
7 **erations, such as contributions of equipment?**

8 A35. No.

9 **Q36. Are there times when a working interest owner in the unit chooses not to – or**
10 **cannot – pay their allocated share of the unit expenses?**

11 A36. Yes, and this type of situation is not uncommon in the industry. The Unit Operating
12 Agreement gives working interest owners the flexibility to decline participating in an
13 operation that they either cannot afford or believe will be unprofitable. The remaining
14 parties can then proceed at their own risk and expense.

15 **Q37. Generally, how is the working interest accounted for when an owner chooses not**
16 **to participate in an operation?**

17 A37. A working interest owner who cannot participate or chooses not to participate in an
18 operation is considered a non-consenting party. If the remaining working interest
19 owners decide to proceed with the operation, the consenting parties bear the full cost
20 and expense of the operations. A non-consenting party is deemed to have relinquished
21 its interest in that operation until the well revenues pay out the costs that would have
22 been attributed to that party, plus a prescribed risk penalty or non-consent penalty.

23 **Q38. Can a working interest owner choose to go non-consent in the initial well in the**
24 **Crawford B Unit?**

25 A38. Under the terms of Article VI of the Unit Operating Agreement, any non-consenting
26 interest owner can choose not to participate in the unit's initial. The Unit Operating
27 Agreement provides that a non-participating interest owner shall be deemed to have
28 relinquished its working interest to the other parties in the unit, with a back-in provi-
29 sion and risk factor of 500%.

30 **Q39. But if the working interest owner still has a royalty interest in the unit, that roy-**
31 **alty interest would remain in place and be paid?**

1 A39. Yes, that royalty interest would still be paid.

2 **Q40. Where are the risk factors for subsequent operations set out in the Unit Operat-**
3 **ing Agreement?**

4 A40. They are set out in Article VI.A & B of the Unit Operating Agreement.

5 **Q41. Are the percentages included in the Unit Operating Agreement unusual?**

6 A41. No, the percentages include in the Unit Operating Agreement are not unusual for hor-
7 izontal drilling programs. Because of the significant costs associated with drilling
8 horizontally through the Utica Shale (often in excess of \$10,000,000 to plan, drill,
9 and complete) it is common for companies to incorporate into their joint operating
10 agreements a risk factor that is proportionate to the substantial financial commitment,
11 and these percentages are frequently much higher than those contained in the Unit
12 Operating Agreement.

13 **Q42. I believe you've already described generally the documents in Exhibits A and C**
14 **to the Unit Operating Agreement. Let's turn therefore to Exhibit B of the Unit**
15 **Operating Agreement. What is it?**

16 A42. Exhibit B is a standard oil and gas lease form that is attached to the Unit Operating
17 Agreement to govern any unleased interests owned by the parties. Article III.A of the
18 Unit Operating Agreement provides that if any party owns or acquires an oil and gas
19 interest in the Contract Area, then that interest shall be treated for all purposes of the
20 Unit Operating Agreement as if it were covered by the form of lease attached as Ex-
21 hibit B.

22 **Q43. Does this oil and gas lease contain standard provisions that Eclipse uses in con-**
23 **nnection with its operations in Ohio?**

24 A43. Yes.

25 **Q44. Moving on to Exhibit D of the Unit Operating Agreement, would you describe**
26 **what it is?**

27 A44. Yes. Exhibit D is the insurance exhibit to the Unit Operating Agreement. It sets forth
28 coverage amounts and limitations, and the insurance terms for operations conducted
29 under the Unit Operating Agreement. For example, it requires insurance coverage for
30 Worker's Compensation, General Liability, Auto Liability, Excess Liability, Cost of
31 Well Control and Care, and Pollution Liability.

3 A45. Yes. Exhibit E of the Unit Operating Agreement is the Gas Balancing Agreement,
4 which further details the rights and obligations of the parties with respect to market-
5 ing and selling any production from the Contract Area.

6 Q46. In your professional opinion, given your education and experience, are the terms
7 of the Unit Plan, including the terms of the exhibits just discussed, just and rea-
8 sonable?

9 A46. Yes.

10 Q47. Does this conclude your testimony?

11 A47. Yes.

Attachment 6

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

In re the Matter of the Application of :
Eclipse Resources I, LP for :
Unit Operation :
: :
Crawford B Unit :

WORKING INTEREST OWNER APPROVAL OF UNIT PLAN FOR THE
CRAWFORD B UNIT MONROE COUNTY, OHIO

Eclipse Resources I, LP (“Applicant”) has prepared and/or filed an application asking the Chief of the Division of Oil and Gas Resources Management to issue an order authorizing Applicant to operate the Crawford B Unit located in Monroe County, Ohio, according to the Unit Plan, as defined in the application (the “Application”) which consists of a plan for unit operations entitled “Plan for unit operations the Crawford B Unit Adams Township Monroe County, Ohio” (“Plan for Unit Operations”) and an operating agreement titled “A.A.P.L. Form 610-1989 MODEL FORM OPERATING AGREEMENT” (“Unit Operating Agreement”).

Eclipse Resources I, LP hereby approves the Plan for Unit Operations and the Unit Operating Agreement as well as supports the filing of the Application. In witness whereof, the undersigned has executed this instrument on the date set forth below the signature of its representative.

Committing working interests in 29 tracts;

Covering approximately 482.492 acres;

Representing working interests that make up approximately 81.103% of unit acreage; all as more specifically described on Exhibit A attached hereto.

Eclipse Resources I, LP

By: 
Name: Austin Graybill
Title: Senior Landman

Date: 8-3-2020

EXHIBIT A

Attached to and made a part of that certain
Working Interest Owner Approval for the Crawford B Unit, by
Eclipse Resources I, LP

TRACT NUMBER	NET ACRES IN UNIT	TRACT PARTICIPATION IN UNIT	TAX MAP PARCEL ID
1a	1.101	0.0018512	01-003034.0000
1b	0.033	0.0000557	01-003034.0000
2	0.288	0.0004846	01-003029.0000
3	0.196	0.0003295	01-003012.0000
4	0.030	0.0000499	01-003011.0000
5	0.013	0.0000219	01-004007.0000
6a	51.302	0.0862340	01-004003.0000
6b	31.543	0.0530209	01-004003.0000
7	1.396	0.0023457	01-004010.0000
8	72.676	0.1221618	01-004009.0000
9	10.844	0.0182278	01-011006.0000
10	9.074	0.0152525	01-011010.0000
11	20.736	0.0348553	01-011016.0000
12	27.251	0.0458065	01-011003.0000
13	68.765	0.1155883	01-011001.0000
14	61.337	0.1031020	01-011008.0000
15	41.172	0.0692064	01-011002.0000
16	0.001	0.0000017	01-011011.0000
19	16.480	0.0277014	01-010006.0000
20	23.302	0.0391686	01-010005.0000
21	7.982	0.0134170	01-017003.0000
22	19.545	0.0328534	01-017012.0000
23	0.767	0.0012893	01-018006.0000
24	0.014	0.0000235	01-010009.0000
25	2.465	0.0041434	01-017003.0000
26	4.891	0.0082213	01-017012.0000
27	5.057	0.0085004	01-018006.0000
28	4.132	0.0069455	01-010009.0000
30	0.099	0.0001662	01-004006.0000

Attachment 7

ToName	ToCompany	ToAddress	ToAddress2	ToCity	ToState	ToZip	ToZip4
Andrew Hawk and Stephanie Hawk		6611 Hayes Road		Andover	OH	44003	
Bill Chirpas	Arendei Investments LLC	1265 Chilton Road		Allons	TN	38541	
Barbara Polsley and Dr Steven Polsley		162 New Haven Drive		Urbana	OH	43078	
Berlene S Roe and Kevin Roe		60001 Frankfort Road		Salesville	OH	43778	
Beverly Jean Staudt		2795 St. Andrew Square	Apt 1715	Allison Park	PA	15101	
Bonnie Heil		124 Reservoir Road		Saint Clairsville	OH	43950	
Tracie Palmer	Bounty Minerals LLC	777 Main Street	Suite 3400	Fort Worth	TX	76102	
Brenda J Reed and Wayne Reed		8725 Donavan Road		Radnor	OH	43066	
Craig Wilson	C and E Wilson Holdings LLC	348 Thomas Lane		London	OH	43140	
Carol J Bible and Dennis E Bible		2419 Potter Downs Drive		Waxhaw	NC	28173	
Charles Evans		222 Berger St S		East Canton	OH	44730	
Constance Smith		45684 State Route 145		Lewisville	OH	43754	
Cynthia Putka and Robert Putka		1230 Ruth Ave		Cuyahoga Falls	OH	44221	
Cyril H Steele and Louise Steele		12652 SW Lexington Place		Arcadia	FL	34269	
David Evans and Deborah Evans		Unk		unk	un	unk	
David J Williams and Jennine Williams		8239 Mulberry Road		Chesterland	OH	44026	
Dennis J Novak and Janet A Novak		1897 Royalwood Road		Cleveland	OH	44147	
Donald D Avery and Bonnie May Avery		131 Stebbins Street		Creston	OH	44217	
Edgar Kelly and Betty Kelly		513 Cloverdale Ave.		Crestline	OH	44827	
Edward T Ryan		488 Town Hill Road		Nashville	TN	47448	
Elizabeth A Frame and Aden J Frame		12595 Conquer Hill		Byersville	OH	43723	
Gary Chirpas		1265 Chilton Road		Allons	TN	38541	
Gerald Cramer and Mary Ella Cramer		289 Hampton Road		Lexington	OH	44904	
Unk	Hydrocarbon Holdings LTD	9302 South 83rd Court		Hickory Hills	IL	60457	

Jack H Steele and Patricia J Steele		154 Hunters Woods Drive		Trinity	NC	27370	
James A Steele		9376 Brandywine Road		Northfield	OH	44067	
Janet L Greene		18981 NW 243 Road		High Springs	FL	32643	
Janet Ryan and Edward P Ryan		2604 Robins Bow Road		Bloomington	IN	47401	
Jason L Leyland and Danielle M Leyland		2075 Sand Run Knolls Drive		Akron	OH	44313	
John C Lenz		2900 Massillon Road		Akron	OH	44312	
Judith W Stephens and Curtis L Stephens		304 High Street		Woodsfield	OH	43793	
Judy Eberle		202 Sixth Ave.		Galion	OH	44833	
Karen Kuhn and Richard Kuhn		2860 Northland Street		Cuyahoga Falls	OH	44221	
Katherine Haselberger		203 Maple Avenue		Woodsfield	OH	43793	
Kathleen Gaivin and Robert Gaivin		8157 Olde Eight Road		Northfield	OH	44067	
Kimberly McQueen and Anthony McQueen		5614 Bear Paw Circle		Katy	TX	77449	
Larry Kearns and Korrie Kearns		6622 Township Road 29		Mansfield	OH	44904	
Laurel King		1082 Waldo Way		Twinsburg	OH	44087	
Leannye Marie Rotert		8368 Dallas Drive		Mentor	OH	44060	
Lisa Timmons and Randal Timmons		7133 County Rd. 56		Mount Gilead	OH	43338	
Robert Rieck	LL&B Headwater II LP	510 Hearn Street		Austin	TX	78703	
Margaret Helen Paratore and Charles Paratore		920 Pueblo Street		Gilroy	CA	95020	
Marvin N Stephens and Dorothy B Stephens		71220 Hendrysburg Freeport Road		Piedmont	OH	43983	
Mary A Staudt aka Mary A Cook		128 Boothbay Harbor		Bradford Woods	PA	15015	
Michael Chirpas		1265 Chilton Road		Allons	TN	38541	
Mildred Conger		125 David Canary Drive	Room 203	Massillon	OH	44647	
Nelson E Kindall		6820 Potts Road		Riverview	FL	33569	
Nicole J Eggleton		10310 Oak Acres Drive		Houston	TX	77065	
Norris Whittaker Jr		34631 Harper Ridge Road		Woodsfield	OH	43793	
Iolene J Sawyers	Old Old Farm LLC	45850 Pfalzgraph Road		Woodsfield	OH	43793	

Patrick Steele		8497 County View		Broadview Heights	OH	44147	
Patsy A Stevens		637 East Carters Valley Rd.		Gate City	VA	24251	
Paul Eberle Jr and Karen Eberle		5568 State Route 288		Galion	OH	44833	
Penny Hersman and Kim Hersman		95 Mohican Trail		Mansfield	OH	44904	
	Pepprent Properties LLC	825 Barcelona Drive		Kissimmee	FL	34759	
	Pfalzgraf Land Holdings LLC	33067 Firehouse Road		Lewisville	OH	43754	
Philip F Pabin and Christina M Pabin		41158 Nicki Lynn Drive		Belmont	OH	43718	
Rady Moore		48100 Center Ridge Road		Beallsville	OH	43716	
Robert A Steele and Janet L Steele		2185 20th St. SW		Akron	OH	44314	
Robert M Ryan		7910 Sunnyvale Lane		Charlotte	NC	28210	
Ronald Rothenbuhler		49975 State Route 78		Clarington	OH	43915	
Donald Rothenbuhler	Rothenbuhler Oil & Gas LLC	46094 Sunfish Creek Road		Beallsville	OH	43716	
Sandra L Gazdagh		400 West Aurora Road	Apt. 61	Northfield	OH	44067	
Stacey Eggleton and Rodney Wilson		10310 Oak Acres Drive		Houston	TX	77065	
Stacy Rena Moore		48125 Center Ridge Road		Beallsville	OH	43716	
Steve Chirpas Jr		1265 Chilton Road		Allons	TN	38541	
Unk	Strategic Energy Income Fund III LP	2350 North Forest Rd.		Getzville	NY	14068	
Unk	Strategic Energy Income Fund IV LP	2350 North Forest Rd.		Getzville	NY	14068	
Sylvia Maxwell and Raymond Maxwell		6401 N. Delaware		Wichita	KS	67204	
Taylor Airey	Eclipse Resources I LP	122 W. John Carpenter Fwy	Suite 300	Irving	TX	75039	
Terry E Long and Erleen K Long		1028 North Chestnut St.		Barnsville	OH	43713	
Est of Donald Steele		3005 Conover NW		Massillon	OH	44646	
Est of Donna M Stephens		1241 Mill Park Drive		Marysville	OH	43030	
Est of Sandra Kay Evans		PO Box 261		Millwood	WV	25262	
Mary Ann Crawford Liv Trt dtd Jan 25 2011		12850 Market Avenue N.		Hartville	OH	44632	
Nancy S Schweiger Irrev Oil and Gas Trt dtd June 15 2018		5111 Springville Court		Westerville	OH	43081	

Padovan Family Trt of Sept 13 2010		3670 LaMesa Drive		Akron	OH	44333	
Pandora J Neuhart Revo Liv Trt		40189 Gun Club Road		Woodsfield	OH	43793	
Wm H Carpenter Irrev Oil and Gas Trt dtd Jun 15 2018		570 Susan Avenue		Westerville	OH	43081	
Thomas R Vinez		13707 Nutmeg Circle NW		Magadore	OH	44260	
Winkler Family Revo Liv Trt dtd Sept 5 2002		210 McIlvaine Drive		Creston	OH	44217	
Zac McCoy	Gulfport Energy Corporation	3001 Quail Springs Parkway		Oklahoma City	OK	73134	