

Notice of Hearing

ON AN APPLICATION FOR UNIT OPERATIONS



OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS RESOURCES MANAGEMENT
2045 Morse Road, F-3 • Columbus, OH 43229

NOTICE DATE:

Why Am I Receiving this Notice?

You are receiving this notice because the Division of Oil and Gas Resources Management (Division) has received an application pursuant to Ohio Revised Code 1509.28 for a unitization order. The applicant listed you in its application as having an interest or potential interest within the proposed oil and gas drilling unit.

A virtual hearing on the unitization application will be held on Webex, and you may choose to join. Hearings may last up to two hours. Any changes to the hearing date and time, such as cancellations or continuances, will be posted to the Division's website:

<https://oilandgas.ohiodnr.gov/unitization>

What Happens at the Hearing?

At the hearing, the applicant will present witnesses in support of its application for unitization. Then, anyone with an interest or potential interest in the proposed unit and anyone else who may be adversely affected by an order on the application will have an opportunity to present questions and concerns to the Division. A court reporter will create a record of the hearing.

Do I Have to Attend the Hearing?

Your attendance at the hearing is optional.

How Do I Attend the Hearing?

You can join the hearing up to 15 minutes before its start time, from a device connected to the internet or by calling in via telephone.

- You do not have to speak if you join the hearing.
- If you join the hearing over an internet connection using a phone or tablet, you will need to download the Webex app.
- If you call in using your phone, or if you are using a web browser on a desktop computer, you do not need to download the Webex app.

Attend Hearing via Webex

[HTTPS://SIGNIN.WEBEX.COM/JOIN](https://signin.webex.com/join)

MEETING #:

MEETING PASSWORD:

Attend Hearing via Phone United States Toll-free

CALL:

ACCESS CODE:

How Do I Include My Comments on the Record?

If you speak at the hearing, your comments will be recorded. If you are unable to attend or uncomfortable speaking at the hearing but would like to include comments in the record, you may submit comments on this application by mail or email:

ODNR Division of Oil & Gas Resources Management
Unitization Section

2045 Morse Road, F-3

Columbus, Ohio 43229 or via email to unitization@dnr.ohio.gov

Who Filed

APPLICANT:

Proposed Drilling Location

UNIT NAME:

UNIT LOCATION:

Hearing Information

HEARING DATE:

HEARING TIME:

ATTACHMENTS:

SCAN TO JOIN MEETING



DEADLINE FOR COMMENTS

What Happens after the Hearing Is Held?

State law requires that within 60 days after the hearing the Division must issue an order approving or denying the application. All Chief's Orders are posted to the Division's website. The Chief of the Division must issue an order approving unitization if the applicant demonstrates that (1) the operation is reasonably necessary to increase substantially the ultimate recovery of oil and gas; and (2) the value of the estimated additional recovery of oil or gas exceeds the estimated additional cost incident to conducting the operation.

More Information

The Division has authority over the permitting, drilling, operating and plugging of oil and gas wells in Ohio. This authority ensures uniform statewide regulation of oil and gas activities and promotes conservation through the effective development of oil and gas resources for the "unitization" of tracts of lands.

Ohio law, like the laws of many oil and gas producing states, provides a means to combine mineral rights from individual tracts of land to form a drilling unit to efficiently and effectively develop the oil and/or gas resources beneath those tracts. Ohio Revised Code Section 1509.28 is commonly known as Ohio's unitization law.

Unitization is available when the owners of sixty-five percent of the land overlying a pool (or part of a pool) of oil and/or gas apply to the Division to operate the pool (or part of a pool) as a drilling unit.

After receiving a unitization application, the Division reviews it and, if it has been properly submitted, the Division sets a time for a hearing.

After the hearing, the Division considers all testimony presented at the hearing and any written comments received, and then decides if the application should be granted based upon the law. An order is then issued approving or denying the application. If the application is approved, the order establishing the unit will specify the terms and conditions for unit operation on a just and reasonable basis. An order approving the application allows the applicant to drill inside the unit once all other necessary permits have been obtained.

Following an approved application, an applicant may later request an amendment to the order. Amendments to a unit order must be made in the same manner and are subject to the same conditions as the order for unit operations, including that a hearing must be held on the request.

If You Have Questions Regarding Your Interest in the Proposed Unit:

General Information

<https://oilandgas.ohiodnr.gov/unitization>

Unitization@dnr.ohio.gov

(614) 265-6922



Ohio Revised Code 1509.28 Application for Unit Operations

Section 1. Applicant Information *Required*

1	Applicant Name:	SWN Production Company, LLC			Supplement ☐ ☐ ☐ ☐
2	Mailing Address:	10000 Energy Drive			
3	City / State / Zip:	Spring	TX	77389	
4	Office Phone:	(346) 443-6432			
5	Email:	Andrew.Smith@expandenergy.com			
6	Landman Name:	Andrew Smith			☐ ☐ ☐ ☐ ☐
7	Mailing Address:	10000 Energy Drive			
8	City / State / Zip:	Spring	TX	77389	
9	Office Phone:	(346) 443-6432			
10	Email:	Andrew.Smith@expandenergy.com			
<i>If applicable</i>					
11	Attorney Name:	Mark A. Hylton			☐ ☐ ☐ ☐ ☐ ☐
12	Firm Name:	Vorys, Sater, Seymour and Pease LLP			
13	Mailing Address:	52 East Gay Street			
14	City / State / Zip:	Columbus	OH	43215	
15	Office Phone:	(614) 464-6303			
16	Email:	mahylton@vorys.com			

Section 2. Unit Information *Required*

1	Unit Name:	Rufener E-M Unit			Supplement ☐ ☐ ☐ ☐
2	Unit Location: <i>Include all counties and townships</i>	Green and Lee Townships, Monroe County, Ohio			
3	Number of Tracts:	49			
4	Total Unit Area: <i>In acres</i>	512.514 acres			
5	(a) Number of Proposed Wells:	One			
	(b) Number of Existing Permitted & Drilled Wells: <i>Please identify by API Number and Well Name.</i>	N/A			

Section 2 Unit Information - continued

- | | | | |
|----|--|---|--------------------------|
| 6 | Identification of the proposed pool or part of a pool: | Top of the Middlesex formation down to the top of the Onondaga Limestone formation | Supplement |
| 7 | Is this a request to amend an order for unit operations? | ☐ YES ☒ NO | ☐ |
| 8 | If yes to question 7, explain why the request for amendment is being submitted: | | |
| 9 | If yes to question 7, please identify the Chief's Order to be amended: | | |
| 10 | Is the applicant the owner, or have the consent of the owner(s), (as defined in R.C. 1509.01 (K)) of at least 65% of the land overlying the pool or part of a pool that is the subject of the unitization request? | ☒ YES ☐ NO | ☐ |
| 11 | If yes to question 10, what is the total acreage applicant is the owner of, and has the consent of the owner(s) of, in the proposed unit? | 354.550 acres | ☐ |
| 12 | If 70% or less of the acreage in the proposed unit is consenting acreage in the unit, identify the method that was used to determine the area: | ☐ GPS ☒ Survey ☐ N/A
☐ Other: | ☐ |
| 13 | Does the unit include mineral interest owned by the State of Ohio?
<i>If so, indicate the state agenc(ies) that own the mineral interest. If the state agency is unknown, list "unknown."</i> | ☐ YES ☒ NO
 | ☐ |

Section 3. Exhibits Required

- | | | |
|-----------|---|--------------------------|
| Exhibit A | A list identifying all mineral owners in the proposed unit, leased or unleased, including all working interest owners, in PDF and Excel format | Supplement |
| Exhibit B | 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 | ☐ |
| Exhibit C | A list identifying all parcels subject to pending ownership litigation or potential adverse ownership claims | ☐ |
| Exhibit D | A color-coded map | ☐ |
| Exhibit E | Gamma Ray Density or Gamma Ray resistivity geophysical type log
<i>Optional only for requests to amend orders for unit operations</i> | ☐ |
| Exhibit F | Cross-Section Location Map
<i>Optional only for requests to amend orders for unit operations</i> | ☐ |
| Exhibit G | Leasing Efforts & Affidavit of Leasing Efforts | ☐ |
| Exhibit H | Owner List for Notice Purposes | ☐ |

Supplement

Section 4. Mailing List (Excel) Required

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Section 5. Economic Calculation Summaries *Required*

Unitized Scenario

Well Name	Lateral Length (ft)	Measured Depth (ft)	Operating Costs (MM\$)	Capital Costs (MM\$)	Undiscounted Value of Estimated Recovery (MM\$)	PV0 (MM\$)	PV10 (MM\$)	Estimated Gross Recovery (BCFe)	Supplement
Rufener E-M MNR 12HM	25,453	31,723	\$21.2	\$17.5	\$93.3	\$53.2	\$17.8	20.6	☐
									☐
									☐
									☐
									☐
Total:	25,453	31,723	\$21.2	\$17.5	\$93.3	\$53.2	\$17.8	20.6	☐

Non-Unitized Scenario

Well Name	Lateral Length (ft)	Measured Depth (ft)	Operating Costs (MM\$)	Capital Costs (MM\$)	Undiscounted Value of Estimated Recovery (MM\$)	PV0 (MM\$)	PV10 (MM\$)	Estimated Gross Recovery (BCFe)	Supplement
Rufener E-M MNR 12HM	0	0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	0.0	☐
									☐
									☐
									☐
									☐
Total:	0	0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	0.0	☐

Difference

Well Name	Lateral Length (ft)	Measured Depth (ft)	Operating Costs (MM\$)	Capital Costs (MM\$)	Undiscounted Value of Estimated Recovery (MM\$)	PV0 (MM\$)	PV10 (MM\$)	Estimated Gross Recovery (BCFe)	Supplement
Rufener E-M MNR 12HM	25,453	31,723	\$21.2	\$17.5	\$93.3	\$53.2	\$17.8	20.6	☐
									☐
									☐
									☐
									☐
Total:	25,453	31,723	\$21.2	\$17.5	\$93.3	\$53.2	\$17.8	20.6	☐

Section 6. Attachments *Required*

Working Interest Approvals Form(s)

Applicant's Operating Agreement

Affidavit of Operating Agreement (*if applicable*)

Georeferenced File

Optional only for requests to amend orders for unit operations

Supplement

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Section 7. Attestation Required

If this is the original application or a request to amend an order for unit operations, submit Attestation A.

Attestation A

I, Andrew Smith (NAME) on behalf of SWN Production Company, LLC (APPLICANT) am competent and authorized to testify on the matters contained in this affidavit and application.

Pursuant to Ohio Revised Code 1509.28, Applicant files this application with the Chief of the Division of Oil and Gas Resources Management (DOGRM) requesting an order authorizing unit operations or to amend an order for unit operations as indicated above and in the attachments to this application.

As of the date this application is signed, Applicant is the owner, or has the consent of the owner, as that term is defined in Ohio Revised Code 1509.01(K), of at least 65% of the land overlying the pool or part of a pool that is the subject of the unitization request.

Further, Applicant has exercised reasonable due diligence in their efforts to identify and locate all mineral interest owners within the proposed unit and ascertain their current addresses prior to filing this application with DOGRM.

These efforts included:

List as applicable: Performing title work, court records, reviewing marriage and birth records, death records, searching county auditor tax records, searching records maintained by the United States Postal Service, utilizing electronic resources, etc.

performing title work, including reviewing court, birth, marriage, and death records and county auditor tax records, and utilizing electronic resources (e.g., telephone and address listings, heirship research).

Where it was not reasonably possible or practicable to identify all of mineral interest owners' identities or addresses, Applicant will provide notice by publication of a hearing.

To the best of Applicant's knowledge and belief, the names and addresses of mineral interest owners it provided with this application are accurate. I understand the DOGRM relies on the statements and representations contained in this application to process this application. Nothing in this application constitutes a waiver of right in law or equity by DOGRM or Applicant.

My signature below certifies that the information provided is true and accurate to the best of my knowledge, under penalty of law.

	ANDREW SMITH	LANDMAN
SIGNATURE	PRINT NAME	TITLE

STATE OF

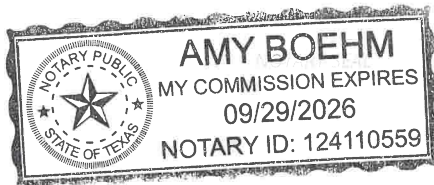
TEXAS

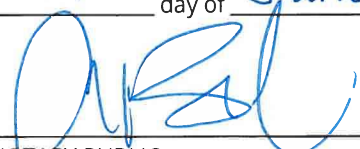
COUNTY OF

HARRIS

Sworn to before me and subscribed in my presence on this

19th day of JUNE, 2025
MONTH YEAR




NOTARY PUBLIC

My commission expires 9/29/2026

Section 7. Attestation Required

If this is a supplement to the original application or to a request to amend an order for unit operations, submit Attestation B.

Attestation B - Supplement

I _____ (NAME) on behalf of _____ (APPLICANT) am competent and authorized to testify on the matters contained in this affidavit and supplemental application.

Pursuant to Ohio Revised Code 1509.28, Applicant files this supplemental application with the Chief of the Division of Oil and Gas Resources Management (DOGRM) requesting an order authorizing unit operations or to amend an order for unit operations as indicated above and in the attachments to this supplemental application.

As of the date this supplemental application is signed, Applicant is the owner, or has consent of the owner, as that term is defined in Ohio Revised Code 1509.01(K), of at least 65% of the land overlying the pool or part of a pool that is the subject of the unitization request.

Further, Applicant has exercised reasonable due diligence in their efforts to identify and locate all mineral interest owners within the proposed unit and ascertain their current addresses prior to filing this supplemental application with DOGRM.

These efforts included:

List as applicable: Performing title work, court records, reviewing marriage and birth records, death records, searching county auditor tax records, searching records maintained by the United States Postal Service, utilizing electronic resources, etc.

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Where it was not reasonably possible or practicable to identify all of mineral interest owners' identities or addresses, Applicant will provide notice by publication of a hearing.

To the best of Applicant's knowledge and belief, the names and addresses of mineral interest owners it provided with this supplemental application are accurate. I understand the DOGRM relies on the statements and representations contained in this supplemental application to process this application. Nothing in this supplemental application constitutes a waiver of right in law or equity by DOGRM or Applicant.

My signature below certifies that the information provided is true and accurate to the best of my knowledge, under penalty of law.

SIGNATURE	PRINT NAME	TITLE

STATE OF

--

COUNTY OF

--

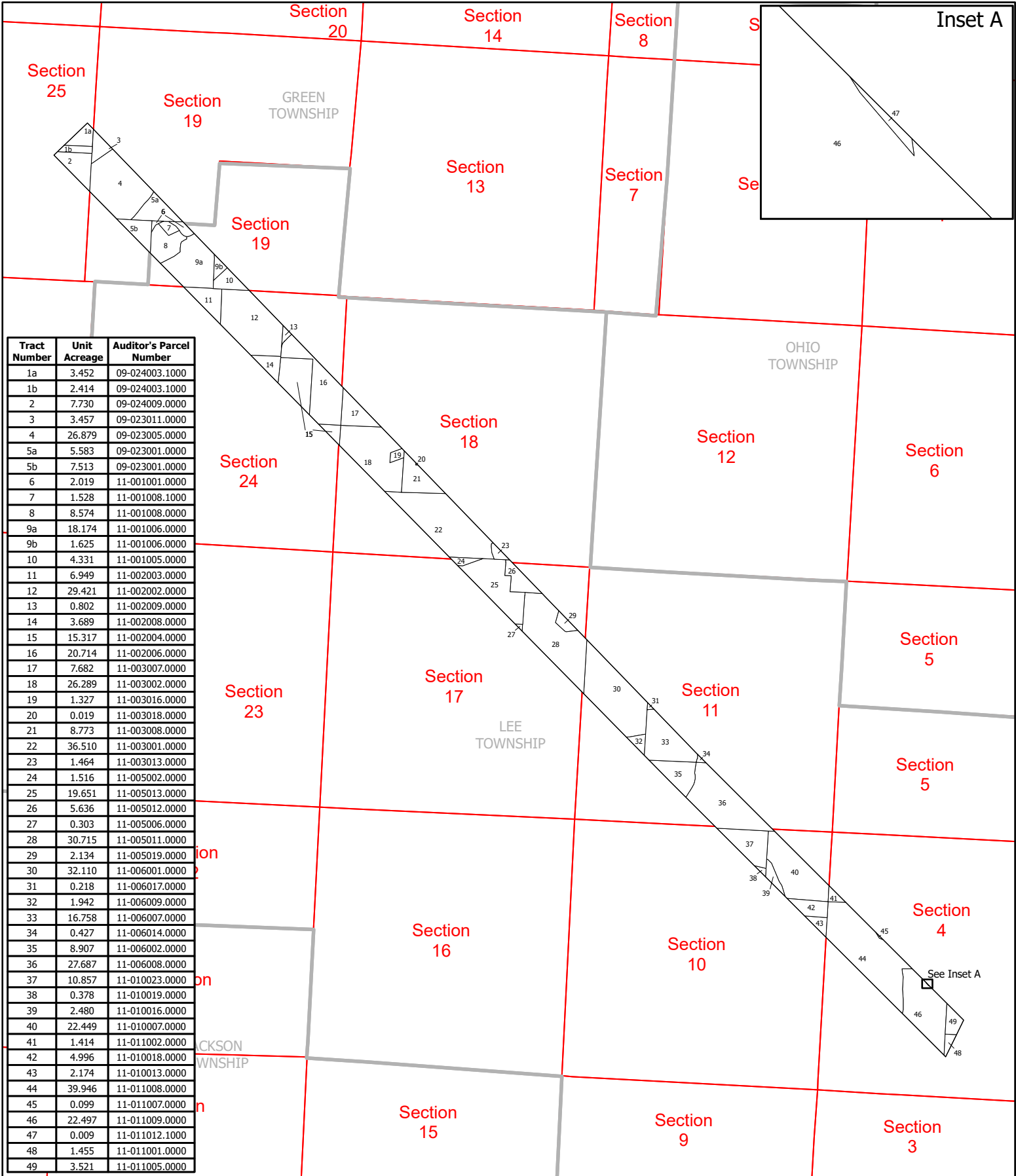
Sworn to before me and subscribed in my presence on this

_____ day of _____, 20____.
MONTH YEAR

NOTARY SEAL

NOTARY PUBLIC

My commission expires _____.



County Boundary

Unit Boundary

Section Lines

02,5005,000

Feet

1 inch = 2,600 feet

N

W

E

S

EXHIBIT B

Unit Size: 512.514 Acres

Green and Lee Townships, Monroe County OH

Rufener E-M Unit

Exhibit H - Rufener E-M Unit				
Mineral Owners				
Name	Leased Yes or No	Tract Number(s)	Tax Map Parcel ID(s)	Surface Acres in Unit (Net)
Albert Clay Orr	No	39	11-010016.0000	0.030
Alice Carolyn Jones Living Trust dated October 21, 2013 ATTN: Alice Carolyn Jones, Trustee	Yes	43	11-010013.0000	2.174
Alleman Acres, LLC	Yes	5a	09-023001.0000	4.187
ATTN: Janis Alleman	Yes	5b	09-023001.0000	7.513
Alyssa N. McGhee	Yes	39	11-010016.0000	0.009
AMP Fund III, LP ATTN: Philip Thomas, COO	Yes	38	11-010019.0000	0.189
Andrew Richard Safigan	Yes	39	11-010016.0000	0.071
Andrew Wayne Salva	Yes	39	11-010016.0000	0.059
Angel Craig a/k/a Angel Mount	Yes	2	09-024009.0000	0.242
Appalachia Minerals, LLC ATTN: Elyse Wilson, Manager	Yes	10	11-001005.0000	2.166
	Yes	12	11-002002.0000	14.711
	Yes	13	11-002009.0000	0.802
Arthur Dale Bolen	Yes	39	11-010016.0000	0.354
Benjamin J. Merckle	Yes	38	11-010019.0000	0.095
Black Knife Minerals, LLC	Yes	36	11-006008.0000	0.277
ATTN: Robert T. Sanders	Yes	40	11-010007.0000	0.224
Bonnie R. Harker	Yes	9a	11-001006.0000	0.095
	Yes	9b	11-001006.0000	0.008
	Yes	11	11-002003.0000	0.036
Brandy Tucker a/k/a Brandy Ady	Yes	2	09-024009.0000	0.966
Brenda Altimore	Yes	20	11-003018.0000	0.019
Brian A. Bennett	Yes	39	11-010016.0000	0.059
Bryce Bennett	Yes	39	11-010016.0000	0.002
Caleb A. Smith	Yes	39	11-010016.0000	0.003
Calvary Baptist Church ATTN: Charles Nicholson	Yes	39	11-010016.0000	0.009
Captolia Kappler	Yes	39	11-010016.0000	0.177
Carol Cozette Tanner	Yes	2	09-024009.0000	0.966
Charles Kenneth Cross	No	39	11-010016.0000	0.177
Cheryl L. Brown	Yes	9a	11-001006.0000	0.084
	Yes	9b	11-001006.0000	0.008
	Yes	11	11-002003.0000	0.032
Cheryl L. Drum a/k/a Cheryl Burks	Yes	2	09-024009.0000	0.966
Chester B. Crooks	Yes	39	11-010016.0000	0.018
Chris L. Starr	Yes	1a	09-024003.1000	0.072
	Yes	3	09-023011.0000	0.054
	Yes	4	09-023005.0000	0.420
	Yes	5a	09-023001.0000	0.116
Christina Cook a/k/a Christina Cook-Snyder	Yes	2	09-024009.0000	0.242
Coleman P. Lipperman	Yes	39	11-010016.0000	0.009
Connie Jo Lehman	Yes	41	11-011002.0000	0.530
Cynthia K. Neader	Yes	39	11-010016.0000	0.024
Daniel Williams	Yes	39	11-010016.0000	0.002
Danielle N. Smith	Yes	39	11-010016.0000	0.003
David Alan Carman	No	39	11-010016.0000	0.008
David Conda Smith	Yes	39	11-010016.0000	0.009
David Trigg	No	39	11-010016.0000	0.002
Debora Bannerman	Yes	23	11-003013.0000	0.293
	Yes	26	11-005012.0000	1.127
Denise Callaghan	Yes	23	11-003013.0000	0.586
	Yes	26	11-005012.0000	2.254
Diego Den Hunt Club Revocable Trust dated October 4, 2002 ATTN: Scott C. Adkins, Trustee	Yes	21	11-003008.0000	8.773
Donald G. Yarman	Yes	23	11-003013.0000	0.293
	Yes	26	11-005012.0000	1.127
Duaine M. Bennett	Yes	39	11-010016.0000	0.059
Duane R. Hofmann	Yes	39	11-010016.0000	0.044
Edward Clyde Crouch, III	Yes	9a	11-001006.0000	0.442
	Yes	9b	11-001006.0000	0.039
	Yes	11	11-002003.0000	0.169
Edward Clyde Crouch, IV	Yes	9a	11-001006.0000	0.095
	Yes	9b	11-001006.0000	0.008
	Yes	11	11-002003.0000	0.036
Elizabeth Ann Nystrom	Yes	39	11-010016.0000	0.009
Franklin A. Hinkle	Yes	35	11-006002.0000	8.907
Gale E. Longwell and Roberta H. Longwell, f/k/a Roberta Hart, husband and wife	Yes	36	11-006008.0000	13.844
	Yes	40	11-010007.0000	11.225

Garth Maibach	Yes	31	11-006017.0000	0.218
Gary A. Straub and Denise E. Straub, husband and wife	Yes	7	11-001008.1000	0.764
	Yes	8	11-001008.0000	4.287
Gateway Royalty IV, LLC ATTN: Chris Oldham, President	Yes	27	11-005006.0000	0.303
Gateway Royalty V, LLC ATTN: Chris Oldham, President	Yes	42	11-010018.0000	0.699
	Yes	42	11-010018.0000	4.297
Genetta Carman	Yes	39	11-010016.0000	0.008
Genetta Donahue	Yes	39	11-010016.0000	0.089
George H. Trout	Yes	39	11-010016.0000	0.009
Hazel Marie Butler	Yes	39	11-010016.0000	0.071
Holly M. Steed	Yes	39	11-010016.0000	0.039
Homer Daniel Rufener	Yes	3	09-023011.0000	2.593
Jacob Paul Ingram, Jr.	No	39	11-010016.0000	0.030
Jacqueline R. Jochumsen	Yes	39	11-010016.0000	0.018
Jaden B. Smith	Yes	39	11-010016.0000	0.003
James Daniel Martin (NPRI)	Yes	1a	09-024003.1000	2.589
James Trigg	No	39	11-010016.0000	0.002
Jan D. Kappler, II	Yes	39	11-010016.0000	0.177
Janet L. Stout	No	39	11-010016.0000	0.009
Janis Alleman	Yes	6	11-001001.0000	2.019
Jason T. Hathcock and Debbie S. Hathcock, husband and wife	Yes	18	11-003002.0000	26.289
	Yes	19	11-003016.0000	1.327
Jason Williamson	Yes	1a	09-024003.1000	0.575
	Yes	3	09-023011.0000	0.432
	Yes	4	09-023005.0000	3.360
	Yes	5a	09-023001.0000	0.931
Jennifer Crouch Lyons	Yes	9a	11-001006.0000	0.095
	Yes	9b	11-001006.0000	0.008
	Yes	11	11-002003.0000	0.036
Jennifer Jones	Yes	2	09-024009.0000	0.242
Jeremey R. Tustin	Yes	30	11-006001.0000	32.110
	Yes	33	11-006007.0000	16.758
	Yes	34	11-006014.0000	0.427
Jerry Walter Green	Yes	39	11-010016.0000	0.039
Jill R. Hutcherson	Yes	9a	11-001006.0000	0.095
	Yes	9b	11-001006.0000	0.008
	Yes	11	11-002003.0000	0.036
John Albert Tullius	Yes	39	11-010016.0000	0.024
John J. Merckle, Jr.	Yes	38	11-010019.0000	0.095
John Vernon Smith	Yes	39	11-010016.0000	0.009
Joseph M. Hughes	Yes	39	11-010016.0000	0.009
Joseph Palmer	Yes	39	11-010016.0000	0.015
Joseph Sedinger	Yes	39	11-010016.0000	0.008
Joshua R. Ramsier	Yes	37	11-010023.0000	9.179
Judith M. Warner Bolen	Yes	39	11-010016.0000	0.071
Judy Twinem	Yes	45	11-011007.0000	0.099
	Yes	47	11-011012.1000	0.009
Karl M. Crouch	Yes	9a	11-001006.0000	0.095
	Yes	9b	11-001006.0000	0.008
	Yes	11	11-002003.0000	0.036
Kenneth L. Cross	Yes	39	11-010016.0000	0.044
Kevin L. Little and Jennie L. Little, husband and wife	Yes	7	11-001008.1000	0.764
	Yes	8	11-001008.0000	4.287
	Yes	9a	11-001006.0000	15.902
	Yes	9b	11-001006.0000	1.422
	Yes	11	11-002003.0000	6.080
Kevin L. Little and Jennie L. Little, husband and wife (NPRI)	Yes	6	11-001001.0000	2.019
King Mountain, LLC ATTN: Caleb Hollo, President	Yes	14	11-002008.0000	3.689
Kristi L. Wiles	Yes	2	09-024009.0000	0.966
Krystal Castle	Yes	23	11-003013.0000	0.293
	Yes	26	11-005012.0000	1.127
Lauraine VanOss	Yes	22	11-003001.0000	5.477
	Yes	22	11-003001.0000	31.034
	Yes	24	11-005002.0000	1.516
	Yes	25	11-005013.0000	19.651
Laurie Ann King	Yes	9a	11-001006.0000	0.084
	Yes	9b	11-001006.0000	0.008
	Yes	11	11-002003.0000	0.032
Leah LaCourse	Yes	2	09-024009.0000	0.483
Lehman Family Revocable Family Trust ATTN: Scott Lehman and Connie Jo Lehman, Co-Trustees	Yes	41	11-011002.0000	0.177

Leo D. Starr	Yes	1a	09-024003.1000	0.072
	Yes	3	09-023011.0000	0.054
	Yes	4	09-023005.0000	0.420
	Yes	5a	09-023001.0000	0.116
Linda K. Craun	Yes	2	09-024009.0000	0.966
Lisa Creech	Yes	39	11-010016.0000	0.002
LL&B Headwater II, LP ATTN: Gordon Deen, CEO	Yes	4	09-023005.0000	20.159
	Yes	10	11-001005.0000	2.166
	Yes	12	11-002002.0000	14.711
Lois Starr	Yes	1a	09-024003.1000	0.072
	Yes	3	09-023011.0000	0.054
	Yes	4	09-023005.0000	0.420
	Yes	5a	09-023001.0000	0.116
Mark Sedinger	Yes	39	11-010016.0000	0.008
Martha Lee Yura	Yes	39	11-010016.0000	0.009
Mary Susan Eckard	Yes	39	11-010016.0000	0.009
Matthew E. Cross	Yes	39	11-010016.0000	0.044
Michael C. Robertson	Yes	9a	11-001006.0000	0.095
	Yes	9b	11-001006.0000	0.008
	Yes	11	11-002003.0000	0.036
Michael Jay Bolen	Yes	39	11-010016.0000	0.071
Nancy Marie Martin (NPRI)	Yes	1a	09-024003.1000	2.589
Nelson Kindall	Yes	28	11-005011.0000	3.413
	Yes	29	11-005019.0000	0.237
Nick McKelvey	No	39	11-010016.0000	0.015
Pandora J. Neuhart Revocable Living Trust dated 9/27/2016 ATTN: Pandora J. Neuhart, Trustee	Yes	28	11-005011.0000	3.413
	Yes	29	11-005019.0000	0.237
Paul Palmer	No	39	11-010016.0000	0.015
Paula (Flowers) Rush	Yes	39	11-010016.0000	0.015
Penni M. Darrah	Yes	1a	09-024003.1000	2.589
	Yes	1b	09-024003.1000	2.414
Raymond M. Sharick	Yes	15	11-002004.0000	15.317
Rebecca Fuller Cooper	Yes	9a	11-001006.0000	0.126
	Yes	9b	11-001006.0000	0.011
	Yes	11	11-002003.0000	0.048
Richard S. Bardon	Yes	9a	11-001006.0000	0.084
	Yes	9b	11-001006.0000	0.008
	Yes	11	11-002003.0000	0.032
Rita Ann Young	Yes	1a	09-024003.1000	0.072
	Yes	3	09-023011.0000	0.054
	Yes	4	09-023005.0000	0.420
	Yes	5a	09-023001.0000	0.116
Robert Stanley Martin, II (NPRI)	Yes	1a	09-024003.1000	2.589
Roger F. Hofman	Yes	39	11-010016.0000	0.044
Ronald Strausbaugh	Yes	2	09-024009.0000	0.483
Ronnie D. Cross	Yes	39	11-010016.0000	0.044
Rosemary Elizabeth Salva	Yes	39	11-010016.0000	0.059
Sandra K. Varney	No	39	11-010016.0000	0.009
Sarita King	Yes	39	11-010016.0000	0.015
Scott A. Bednar	Yes	44	11-011008.0000	39.946
Scott Elchert	Yes	2	09-024009.0000	0.242
Scott Lehman	Yes	41	11-011002.0000	0.530
Sheri Donofrio	Yes	39	11-010016.0000	0.039
Springbok Energy Partners, LLC ATTN: Ryan Watts, President	Yes	36	11-006008.0000	13.567
	Yes	40	11-010007.0000	11.000
Stacie Bennett	Yes	39	11-010016.0000	0.002
Strategic Energy Income Fund III LP ATTN: Brandon Standifird	Yes	28	11-005011.0000	1.536
	Yes	29	11-005019.0000	0.107
Strategic Energy Income Fund IV LP ATTN: Brandon Standifird	Yes	28	11-005011.0000	1.877
	Yes	29	11-005019.0000	0.130
Susan Palmer Nesbitt	Yes	39	11-010016.0000	0.015
Susan S. Crooks	Yes	39	11-010016.0000	0.018
Swiss Ridge 1855 LLC ATTN: Dean and Emma J. Rufener, Managers	Yes	16	11-002006.0000	20.714
	Yes	17	11-003007.0000	7.682
SWN Production Company, LLC ATTN: Andrew Smith	Yes	39	11-010016.0000	0.008
Tammie K. Shreve	Yes	41	11-011002.0000	0.177
Terry R. McPeck and Krista D. McPeck, husband and wife	Yes	32	11-006009.0000	1.942
Theodore J. Zeirott	Yes	39	11-010016.0000	0.089
Tracie Baisel Hughes	Yes	39	11-010016.0000	0.009
Unknown Heirs or Assigns of Bernard K. Martin (NPRI)	Yes	1a	09-024003.1000	2.589
Unknown Heirs or Assigns of Bonnie Heil	Yes	28	11-005011.0000	10.238
	Yes	29	11-005019.0000	0.711

Unknown Heirs or Assigns of Caroline Tubaugh (NPRI)	Yes	9b	11-001006.0000	0.008
	Yes	9b	11-001006.0000	0.008
	Yes	9b	11-001006.0000	0.011
	Yes	9b	11-001006.0000	0.039
	Yes	9b	11-001006.0000	0.008
	Yes	9b	11-001006.0000	0.008
	Yes	9b	11-001006.0000	0.011
	Yes	9b	11-001006.0000	0.008
	Yes	9b	11-001006.0000	0.008
	Yes	9b	11-001006.0000	0.008
	Yes	9b	11-001006.0000	1.422
	Yes	9b	11-001006.0000	0.008
	Yes	9b	11-001006.0000	0.008
	Yes	9b	11-001006.0000	0.068
	Yes	10	11-001005.0000	2.166
	Yes	10	11-001005.0000	2.166
Unknown Heirs or Assigns of Charles Carman, Jr.	No	39	11-010016.0000	0.008
Unknown Heirs or Assigns of Dorothy Sciullo	Yes	9a	11-001006.0000	0.757
	Yes	9b	11-001006.0000	0.068
	Yes	11	11-002003.0000	0.290
Unknown Heirs or Assigns of Earl G. Fisher (NPRI)	Yes	36	11-006008.0000	13.844
	Yes	40	11-010007.0000	11.225
Unknown Heirs or Assigns of John J. Hinderlong and Annie Hinderlong (NPRI)	Yes	45	11-011007.0000	0.099
Unknown Heirs or Assigns of Marietta M. Stover	No	3	09-023011.0000	0.216
	No	4	09-023005.0000	1.680
Unknown Heirs or Assigns of Ruth Ann Price a/k/a Ruth Ann Whaley (NPRI)	Yes	1a	09-024003.1000	2.589
Vance L. Drum	Yes	2	09-024009.0000	0.966
Vertical Acres, LLC	Yes	48	11-011001.0000	1.455
ATTN: Richard Stalder, Stanley Stalder and Clara B. Stalder, Members	Yes	49	11-011005.0000	3.521
Vicki L. Sheets	Yes	39	11-010016.0000	0.044
Vine Royalty L.P. ATTN: Adam R. Cox, VP	Yes	37	11-010023.0000	1.678
	Yes	46	11-011009.0000	22.497
Warren A. Whittaker	Yes	28	11-005011.0000	10.238
	Yes	29	11-005019.0000	0.711
William J. Fuller	Yes	9a	11-001006.0000	0.126
	Yes	9b	11-001006.0000	0.011
	Yes	11	11-002003.0000	0.048
William Lawrence Tullius	Yes	39	11-010016.0000	0.024
William Sedinger, Jr.	Yes	39	11-010016.0000	0.008
William Sedinger, Sr.	Yes	39	11-010016.0000	0.030
Zach McKelvey	No	39	11-010016.0000	0.015

Working Interest Owners				
Name	Leased Yes or No	Tract Number(s)	Tax Map Parcel ID(s)	Surface Acres in Unit (Net)
SWN Production Company, LLC ATTN: Andrew Smith	Yes	1b	09-024003.1000	2.414
	Yes	2	09-024009.0000	0.242
	Yes	2	09-024009.0000	0.242
	Yes	2	09-024009.0000	0.966
	Yes	2	09-024009.0000	0.966
	Yes	2	09-024009.0000	0.966
	Yes	2	09-024009.0000	0.242
	Yes	2	09-024009.0000	0.242
	Yes	2	09-024009.0000	0.483
	Yes	2	09-024009.0000	0.483
	Yes	2	09-024009.0000	0.966
	Yes	2	09-024009.0000	0.966
	Yes	2	09-024009.0000	0.966
	Yes	3	09-023011.0000	2.593
	Yes	3	09-023011.0000	0.054
	Yes	3	09-023011.0000	0.054
	Yes	3	09-023011.0000	0.054
	Yes	3	09-023011.0000	0.432
	Yes	3	09-023011.0000	0.054
	Yes	4	09-023005.0000	0.420
	Yes	4	09-023005.0000	0.420
	Yes	4	09-023005.0000	0.420
	Yes	4	09-023005.0000	3.360
	Yes	4	09-023005.0000	0.420
	Yes	5a	09-023001.0000	4.187
	Yes	5a	09-023001.0000	0.116
	Yes	5a	09-023001.0000	0.116

SWN Production Company, LLC [cont'd]
ATTN: Andrew Smith

Yes	5a	09-023001.0000	0.116
Yes	5a	09-023001.0000	0.931
Yes	5a	09-023001.0000	0.116
Yes	5b	09-023001.0000	7.513
Yes	6	11-001001.0000	2.019
Yes	13	11-002009.0000	0.802
Yes	16	11-002006.0000	20.714
Yes	17	11-003007.0000	7.682
Yes	18	11-003002.0000	26.289
Yes	19	11-003016.0000	1.327
Yes	20	11-003018.0000	0.019
Yes	21	11-003008.0000	8.773
Yes	22	11-003001.0000	5.477
Yes	24	11-005002.0000	1.516
Yes	25	11-005013.0000	19.651
Yes	27	11-005006.0000	0.303
Yes	28	11-005011.0000	10.238
Yes	28	11-005011.0000	3.413
Yes	28	11-005011.0000	3.413
Yes	28	11-005011.0000	1.536
Yes	28	11-005011.0000	1.877
Yes	28	11-005011.0000	10.238
Yes	29	11-005019.0000	0.711
Yes	29	11-005019.0000	0.237
Yes	29	11-005019.0000	0.237
Yes	29	11-005019.0000	0.107
Yes	29	11-005019.0000	0.130
Yes	29	11-005019.0000	0.711
Yes	30	11-006001.0000	32.110
Yes	31	11-006017.0000	0.218
Yes	32	11-006009.0000	1.942
Yes	33	11-006007.0000	16.758
Yes	34	11-006014.0000	0.427
Yes	35	11-006002.0000	8.907
Yes	36	11-006008.0000	13.844
Yes	36	11-006008.0000	13.567
Yes	36	11-006008.0000	0.277
Yes	37	11-010023.0000	9.179
Yes	37	11-010023.0000	1.678
Yes	38	11-010019.0000	0.095
Yes	38	11-010019.0000	0.095
Yes	38	11-010019.0000	0.189
Yes	39	11-010016.0000	0.059
Yes	39	11-010016.0000	0.002
Yes	39	11-010016.0000	0.059
Yes	39	11-010016.0000	0.002
Yes	39	11-010016.0000	0.354
Yes	39	11-010016.0000	0.071
Yes	39	11-010016.0000	0.071
Yes	39	11-010016.0000	0.071
Yes	39	11-010016.0000	0.009
Yes	39	11-010016.0000	0.008
Yes	39	11-010016.0000	0.002
Yes	39	11-010016.0000	0.018
Yes	39	11-010016.0000	0.018
Yes	39	11-010016.0000	0.044
Yes	39	11-010016.0000	0.044
Yes	39	11-010016.0000	0.044
Yes	39	11-010016.0000	0.089
Yes	39	11-010016.0000	0.039
Yes	39	11-010016.0000	0.009
Yes	39	11-010016.0000	0.039
Yes	39	11-010016.0000	0.044
Yes	39	11-010016.0000	0.044
Yes	39	11-010016.0000	0.009
Yes	39	11-010016.0000	0.009
Yes	39	11-010016.0000	0.018
Yes	39	11-010016.0000	0.177
Yes	39	11-010016.0000	0.177
Yes	39	11-010016.0000	0.015
Yes	39	11-010016.0000	0.008
Yes	39	11-010016.0000	0.009
Yes	39	11-010016.0000	0.009

SWN Production Company, LLC [cont'd]
ATTN: Andrew Smith

Yes	39	11-010016.0000	0.024
Yes	39	11-010016.0000	0.015
Yes	39	11-010016.0000	0.009
Yes	39	11-010016.0000	0.015
Yes	39	11-010016.0000	0.015
Yes	39	11-010016.0000	0.071
Yes	39	11-010016.0000	0.059
Yes	39	11-010016.0000	0.059
Yes	39	11-010016.0000	0.008
Yes	39	11-010016.0000	0.008
Yes	39	11-010016.0000	0.008
Yes	39	11-010016.0000	0.030
Yes	39	11-010016.0000	0.044
Yes	39	11-010016.0000	0.003
Yes	39	11-010016.0000	0.003
Yes	39	11-010016.0000	0.009
Yes	39	11-010016.0000	0.003
Yes	39	11-010016.0000	0.009
Yes	39	11-010016.0000	0.039
Yes	39	11-010016.0000	0.009
Yes	39	11-010016.0000	0.024
Yes	39	11-010016.0000	0.024
Yes	39	11-010016.0000	0.002
Yes	39	11-010016.0000	0.009
Yes	39	11-010016.0000	0.089
Yes	40	11-010007.0000	11.225
Yes	40	11-010007.0000	11.000
Yes	40	11-010007.0000	0.224
Yes	41	11-011002.0000	0.530
Yes	41	11-011002.0000	0.530
Yes	41	11-011002.0000	0.177
Yes	41	11-011002.0000	0.177
Yes	42	11-010018.0000	0.699
Yes	43	11-010013.0000	2.174
Yes	44	11-011008.0000	39.946
Yes	46	11-011009.0000	22.497
Yes	47	11-011012.1000	0.009
Yes	48	11-011001.0000	1.455
Yes	49	11-011005.0000	3.521
Yes	4	09-023005.0000	20.159
Yes	7	11-001008.1000	0.764
Yes	7	11-001008.1000	0.764
Yes	8	11-001008.0000	4.287
Yes	8	11-001008.0000	4.287
Yes	9a	11-001006.0000	0.084
Yes	9a	11-001006.0000	0.084
Yes	9a	11-001006.0000	0.126
Yes	9a	11-001006.0000	0.442
Yes	9a	11-001006.0000	0.095
Yes	9a	11-001006.0000	0.095
Yes	9a	11-001006.0000	0.126
Yes	9a	11-001006.0000	0.095
Yes	9a	11-001006.0000	0.095
Yes	9a	11-001006.0000	0.084
Yes	9a	11-001006.0000	15.902
Yes	9a	11-001006.0000	0.095
Yes	9a	11-001006.0000	0.095
Yes	9a	11-001006.0000	0.757
Yes	9b	11-001006.0000	0.008
Yes	9b	11-001006.0000	0.008
Yes	9b	11-001006.0000	0.011
Yes	9b	11-001006.0000	0.039
Yes	9b	11-001006.0000	0.008
Yes	9b	11-001006.0000	0.008
Yes	9b	11-001006.0000	0.011
Yes	9b	11-001006.0000	0.008
Yes	9b	11-001006.0000	0.008
Yes	9b	11-001006.0000	0.008
Yes	9b	11-001006.0000	1.422
Yes	9b	11-001006.0000	0.008
Yes	9b	11-001006.0000	0.008
Yes	9b	11-001006.0000	0.068
Yes	10	11-001005.0000	2.166

Rice Drilling D LLC
ATTN: Martin Leehr

Rice Drilling D LLC
ATTN: Martin Leehr

Yes	10	11-001005.0000	2.166
Yes	11	11-002003.0000	0.032
Yes	11	11-002003.0000	0.032
Yes	11	11-002003.0000	0.048
Yes	11	11-002003.0000	0.169
Yes	11	11-002003.0000	0.036
Yes	11	11-002003.0000	0.036
Yes	11	11-002003.0000	0.048
Yes	11	11-002003.0000	0.036
Yes	11	11-002003.0000	0.036
Yes	11	11-002003.0000	0.032
Yes	11	11-002003.0000	6.080
Yes	11	11-002003.0000	0.036
Yes	11	11-002003.0000	0.036
Yes	11	11-002003.0000	0.290
Yes	12	11-002002.0000	14.711
Yes	12	11-002002.0000	14.711
Yes	14	11-002008.0000	3.689
Yes	15	11-002004.0000	15.317
Yes	22	11-003001.0000	31.034
Yes	23	11-003013.0000	0.293
Yes	23	11-003013.0000	0.586
Yes	23	11-003013.0000	0.293
Yes	23	11-003013.0000	0.293
Yes	26	11-005012.0000	1.127
Yes	26	11-005012.0000	2.254
Yes	26	11-005012.0000	1.127
Yes	26	11-005012.0000	1.127
Yes	42	11-010018.0000	4.297
Yes	45	11-011007.0000	0.099
Yes	1a	09-024003.1000	2.589
Yes	1a	09-024003.1000	0.072
Yes	1a	09-024003.1000	0.072
Yes	1a	09-024003.1000	0.072
Yes	1a	09-024003.1000	0.575
Yes	1a	09-024003.1000	0.072

C.G.O., Inc.
ATTN: Michael McCormick, Attorney

Potential Mineral Interest and Working Interest Owners				
Name	Leased Yes or No	Tract Number(s)	Tax Map Parcel ID(s)	Potential Surface Acres in Unit (Net)
1803 Resources, LLC (NPRI) ATTN: Phillip Guerra	Yes	9b	11-001006.0000	1.625
	Yes	10	11-001005.0000	4.331
Camden Baugh	Yes	28	11-005011.0000	10.238
	Yes	29	11-005019.0000	0.711
Chad Heil	Yes	28	11-005011.0000	10.238
	Yes	29	11-005019.0000	0.711
Charles W. Haney	No	3	09-023011.0000	0.216
	No	4	09-023005.0000	1.680
Colin Stevens	No	3	09-023011.0000	0.216
	No	4	09-023005.0000	1.680
Dana L. Whaley (NPRI)	Yes	1a	09-024003.1000	2.589
Donald Earl Wagner and Pamela Wagner, husband and wife	Yes	3	09-023011.0000	0.216
	Yes	4	09-023005.0000	1.680
Douglas L. Whaley (NPRI)	Yes	1a	09-024003.1000	2.589
Gail Elizabeth Smith	No	3	09-023011.0000	0.216
	No	4	09-023005.0000	1.680
George F. Fithen, IV	No	3	09-023011.0000	0.216
	No	4	09-023005.0000	1.680
Harold Lapp (NPRI)	Yes	9b	11-001006.0000	1.625
	Yes	10	11-001005.0000	4.331
Jennifer A. Stevens	No	3	09-023011.0000	0.216
	No	4	09-023005.0000	1.680
Jobe Mathew Stapp n/k/a Jobe Matthew Scott Inman ATTN: Tyler Inman, Guardian	Yes	28	11-005011.0000	10.238
	Yes	29	11-005019.0000	0.711
Judith G. Cosentino	Yes	3	09-023011.0000	0.216
	Yes	4	09-023005.0000	1.680
Justin Matthew Stapp	Yes	28	11-005011.0000	10.238
	Yes	29	11-005019.0000	0.711
Lance George Glaze and Nancy L. Glaze, husband and wife	Yes	3	09-023011.0000	0.216
	Yes	4	09-023005.0000	1.680

Lindsay Baugh n/k/a Lindsay Edgington	Yes	28	11-005011.0000	10.238
	Yes	29	11-005019.0000	0.711
Malanie Whaley (NPRI)	Yes	1a	09-024003.1000	2.589
Margaret Smith	No	3	09-023011.0000	0.216
	No	4	09-023005.0000	1.680
Rebecca G. Vezina	Yes	3	09-023011.0000	0.216
	Yes	4	09-023005.0000	1.680
Sharon K. Phillips, Trustee of the Dorothy J. Sciallo Trust dtd July 6, 1999	Yes	9a	11-001006.0000	0.757
	Yes	9b	11-001006.0000	0.068
	Yes	11	11-002003.0000	0.290
Sylvia Waters (NPRI)	Yes	9b	11-001006.0000	1.625
	Yes	10	11-001005.0000	4.331
William Dalton Rouse	Yes	28	11-005011.0000	10.238
	Yes	29	11-005019.0000	0.711
William Patrick Stevens	No	3	09-023011.0000	0.216
	No	4	09-023005.0000	1.680
Yvonne Ross Burdick (NPRI)	Yes	9b	11-001006.0000	1.625
	Yes	10	11-001005.0000	4.331

NPRI = Non-Participating Royalty Interest