

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:	Expand Operating LLC			<i>Supplement</i> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
2	Mailing Address:	10000 Energy Drive			
3	City / State / Zip:	Spring	TX	77389	
4	Office Phone:	(346) 443-6316			
5	Email:	Gray.Barghols@expandenergy.com			
6	Landman Name:	Gray Barghols			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
7	Mailing Address:	10000 Energy Drive			
8	City / State / Zip:	Spring	TX	77389	
9	Office Phone:	(346) 443-6316			
10	Email:	Gray.Barghols@expandenergy.com			
<i>If applicable</i>					
11	Attorney Name:	Mark A. Hylton			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
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:	Paul Holiday D UP Unit			<i>Supplement</i> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
2	Unit Location: <i>Include all counties and townships</i>	Center, Malaga, and Sunsbury Townships, Monroe County, Ohio			
3	Number of Tracts:	41			
4	Total Unit Area: <i>In acres</i>	585.693 acres			
5	(a) Number of Proposed Wells: (b) Number of Existing Permitted & Drilled Wells: <i>Please identify by API Number and Well Name.</i>	One N/A			

Section 2 Unit Information - continued

6 Identification of the proposed pool or part of a pool:

7 Is this a request to amend an order for unit operations?

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?

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?

Utica/Point Pleasant Formation

YES NO

Supplement

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:

13 Does the unit include mineral interest owned by the State of Ohio?
If so, indicate the state agency(ies) that own the mineral interest. If the state agency is unknown, list "unknown."

536.167 acres

GPS Survey N/A
 Other:

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
Optional only for requests to amend orders for unit operations

Exhibit F Cross-Section Location Map
Optional only for requests to amend orders for unit operations

Exhibit G Leasing Efforts & Affidavit of Leasing Efforts

Exhibit H Owner List for Notice Purposes

Section 4. Mailing List (Excel) Required

Supplement

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
Paul Holiday D UP MNR 4H	16,746	27,316	\$5.1	\$16.3	\$46.2	\$23.6	\$9.2	25.2	<input type="checkbox"/>
									<input type="checkbox"/>
									<input type="checkbox"/>
									<input type="checkbox"/>
									<input type="checkbox"/>
Total:	16,746	27,316	\$5.1	\$16.3	\$46.2	\$23.6	\$9.2	25.2	<input type="checkbox"/>

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
Paul Holiday D UP MNR 4H	0	0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	0.0	<input type="checkbox"/>
									<input type="checkbox"/>
									<input type="checkbox"/>
									<input type="checkbox"/>
									<input type="checkbox"/>
Total:	0	0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	0.0	<input type="checkbox"/>

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
Paul Holiday D UP MNR 4H	16,746	27,316	\$5.1	\$16.3	\$46.2	\$23.6	\$9.2	25.2	<input type="checkbox"/>
									<input type="checkbox"/>
									<input type="checkbox"/>
									<input type="checkbox"/>
									<input type="checkbox"/>
Total:	16,746	27,316	\$5.1	\$16.3	\$46.2	\$23.6	\$9.2	25.2	<input type="checkbox"/>

Section 6. Attachments Required

Working Interest Approvals Form(s)

Supplement

Applicant's Operating Agreement

Affidavit of Operating Agreement (*if applicable*)

Georeferenced File

Optional only for requests to amend orders for unit operations

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, Gray Barghols (NAME) on behalf of Expand Operating 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:

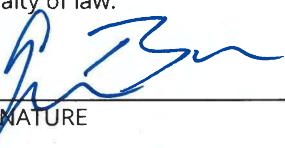
List as applicable: Performing title work, court records, reviewing marriage and birth records, death records, searching county auditor tax records, searching records maintained by the United States Postal Service, utilizing electronic resources, etc.

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.



SIGNATURE

Gray Barghols PRINT NAME Staff Landman TITLE

STATE OF

TEXAS

COUNTY OF

Harris

Sworn to before me and subscribed in my presence on this

22nd day of

September

20

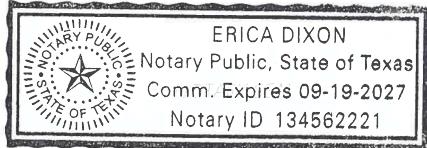
25

YEAR



NOTARY PUBLIC

My commission expires 9/19/2021



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.

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		

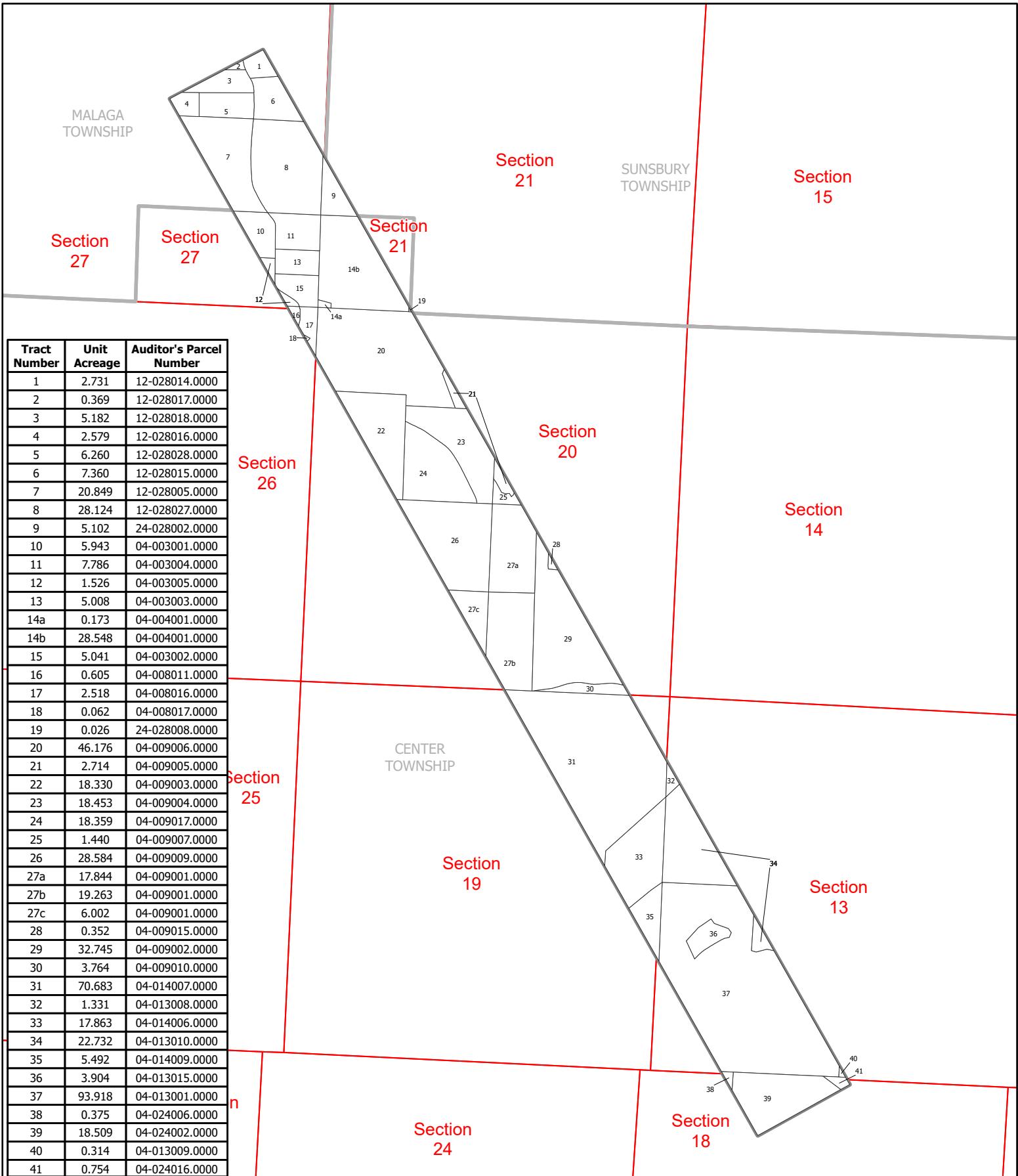
Sworn to before me and subscribed in my presence on this

_____ day of _____, 20_____.
MONTH YEAR

NOTARY SEAL

NOTARY PUBLIC

My commission expires _____.



0 1,700 3,400 Feet 1 inch = 1,800 feet



EXHIBIT B

Unit Size: 585.693 Acres

Center, Malaga, and Sunbury Townships, Monroe County OH

Paul Holiday D UP Unit

- County Boundary
- Unit Boundary
- Section Lines

Exhibit H - Paul Holiday D UP Unit
Mineral Owners

Name	Leased Yes or No	Tract Number(s)	Tax Map Parcel ID(s)	Surface Acres in Unit (Net)
Adam K. Hossman (NPRI)	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	6.110
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	1.222
Alice Jean (Faber) Coplan (NPRI)	Yes	21	04-009005.0000	2.714
	Yes	27a	04-009001.0000	2.974
	Yes	27b	04-009001.0000	3.211
	Yes	27c	04-009001.0000	1.000
Appalachian Resources, LLC ATTN: Alan L. Miller, Member	No	23	04-009004.0000	4.613
	No	24	04-009017.0000	4.590
Barbara Jean Cutshaw (NPRI)	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	6.110
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	1.222
Bounty Minerals, LLC ATTN: Tracie R. Palmer, President	Yes	33	04-014006.0000	7.929
	Yes	34	04-013010.0000	10.090
Bruner Land Company, Inc. ATTN: Douglas R. Bruner, Managing Member	Yes	1	12-028014.0000	1.366
	Yes	2	12-028017.0000	0.185
	Yes	3	12-028018.0000	2.591
	Yes	4	12-028016.0000	1.290
	Yes	5	12-028028.0000	3.130
	Yes	6	12-028015.0000	3.680
Chad Briggs (NPRI)	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	6.110
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	1.222
Chris Briggs (NPRI)	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	6.110
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	1.222
Crimson D Acres, LLC ATTN: David Daugherty and Tammy Daugherty, Members	Yes	26	04-009009.0000	28.584
	Yes	30	04-009010.0000	3.764
D&M Acres, LLC ATTN: Mary Logston, Member	Yes	31	04-014007.0000	70.683
	Yes	32	04-013008.0000	1.331
	No	22	04-009003.0000	1.222
David L. Sulsberger (NPRI)	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	6.110
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	1.222
Dean R. Briggs, Jr. (NPRI)	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	6.110
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	1.222
Debra D. Fetty Donald J. Dannemiller and Charlotte J. Dannemiller, husband and wife	No	22	04-009003.0000	1.222
	Yes	33	04-014006.0000	9.934
	Yes	34	04-013010.0000	12.642

Dustin Dillon	Yes	18	04-008017.0000	0.062
Edward Patrick Ryan (NPRI)	Yes	14b	04-004001.0000	28.548
	Yes	19	24-028008.0000	0.026
Edward Thomas Ryan (NPRI)	Yes	14b	04-004001.0000	28.548
	Yes	19	24-028008.0000	0.026
Elaine J. Hossman (NPRI)	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	6.110
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	1.222
Elizabeth E. Lemkey	Yes	27a	04-009001.0000	5.948
	Yes	27b	04-009001.0000	6.421
	Yes	27c	04-009001.0000	2.001
Eric D Moore	Yes	25	04-009007.0000	1.440
Gladys K. Knowlton (NPRI)	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	6.110
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	1.222
Golden Eagle Resources II, LLC	Yes	35	04-014009.0000	2.746
ATTN: Michael Faust	Yes	36	04-013015.0000	1.952
	Yes	37	04-013001.0000	46.959
	Yes	38	04-024006.0000	0.125
Golden Eagle Resources II-C, LLC	No	40	04-013009.0000	0.157
ATTN: Michael Faust	No	22	04-009003.0000	1.222
Gregory D. Hossman (NPRI)	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	6.110
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	1.222
Gretchen Anderson	Yes	27a	04-009001.0000	2.974
	Yes	27b	04-009001.0000	3.211
	Yes	27c	04-009001.0000	1.000
Heavens Acres, LLC	Yes	19	24-028008.0000	0.026
ATTN: Christopher Dickson and Karen Dickson				
J. Fryer Properties, LLC	Yes	14a	04-004001.0000	0.173
ATTN: Jason T. Fryer	Yes	14b	04-004001.0000	28.548
James A. Fife, Trustee of the Solsbury Hill Trust	Yes	17	04-008016.0000	2.518
	Yes	20	04-009006.0000	46.176
Janet M. Ryan (NPRI)	Yes	14b	04-004001.0000	28.548
	Yes	19	24-028008.0000	0.026
	Yes	39	04-024002.0000	12.339
	Yes	39	04-024002.0000	6.170
	No	41	04-024016.0000	0.566
Janice Ann Lutz	No	22	04-009003.0000	1.222
Jason Scott Williamson (NPRI)	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	6.110
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	1.222
Jeffrey Briggs (NPRI)	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	6.110
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	1.222

Jessica Marie Thompson (NPRI)	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	6.110
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	1.222
Jill C. Dunn (NPRI)	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	6.110
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	1.222
John T. Mayfield (NPRI)	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	6.110
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	1.222
Judith C. Jansen (NPRI)	Yes	39	04-024002.0000	12.339
	Yes	39	04-024002.0000	6.170
	No	41	04-024016.0000	0.566
Katherine Haselberger	Yes	9	24-028002.0000	5.102
	Yes	28	04-009015.0000	0.352
Lee C. Weber and Amy M. Moore	Yes	23	04-009004.0000	13.840
	Yes	24	04-009017.0000	13.769
LL&B Headwater, II, LP ATTN: Gordon Deen, CEO Long Point Energy, LLC ATTN: James Lawson	Yes	7	12-028005.0000	20.849
	Yes	8	12-028027.0000	28.124
	Yes	10	04-003001.0000	5.943
	Yes	11	04-003004.0000	7.786
	Yes	12	04-003005.0000	1.526
	Yes	13	04-003003.0000	5.008
	Yes	15	04-003002.0000	5.041
	Yes	16	04-008011.0000	0.605
	No	41	04-024016.0000	0.566
	Yes	35	04-014009.0000	2.746
Mark Hudson	Yes	36	04-013015.0000	1.952
	Yes	37	04-013001.0000	46.959
	No	22	04-009003.0000	1.222
Melissa Sulsberger (NPRI)	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	6.110
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	1.222
Michael Shawn Howell	Yes	21	04-009005.0000	2.714
	No	22	04-009003.0000	1.222
Nancy S. Watson	Yes	27c	04-009001.0000	1.000
	Yes	27c	04-009001.0000	1.000
	Yes	27c	04-009001.0000	2.001
	Yes	27c	04-009001.0000	2.001
Richard Parry (NPRI)	No	23	04-009004.0000	4.613
	No	24	04-009017.0000	4.590
Robert Michael Ryan (NPRI)	Yes	14b	04-004001.0000	28.548
	Yes	19	24-028008.0000	0.026
Robert Schumacher	Yes	27a	04-009001.0000	5.948
	Yes	27b	04-009001.0000	6.421
	Yes	27c	04-009001.0000	2.001
Ruth M. Paine (NPRI)	Yes	19	24-028008.0000	0.026
	Yes	14b	04-004001.0000	28.548
Ruth Vickers (NPRI)	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	6.110
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	1.222
Ryan V. Briggs (NPRI)	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	6.110
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	1.222

Sandra S. Bowles (NPRI)	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	6.110
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	1.222
Stacey Lehman (NPRI)	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	6.110
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	1.222
Stephanie Briggs a/k/a Stephanie Lysinger (NPRI)	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	6.110
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	1.222
Susan K. Hiles	No	22	04-009003.0000	1.222
The Morris Irrevocable Trust dated April 17, 2014, Deborah K. Tewanger, Connie J. Jones, and Gregory D. Morris, Co-Trustees	No	22	04-009003.0000	3.055
The Scott J. Mosser Trust, Scott J. Mosser, Trustee (NPRI)	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	6.110
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	1.222
Thomas F. Taylor and Donna J. Taylor, husband and wife	Yes	38	04-024006.0000	0.250
	Yes	39	04-024002.0000	12.339
Todd A. Armbrust, Trustee of the Todd A. Armbrust Revocable Living Trust dated June 27, 2002	Yes	29	04-009002.0000	32.745
Unknown Heirs or Assigns of Ben Staudt (NPRI)	No	41	04-024016.0000	0.566
Unknown Heirs or Assigns of Benjamin Staudt (NPRI)	Yes	14b	04-004001.0000	28.548
	Yes	19	24-028008.0000	0.026
	Yes	39	04-024002.0000	12.339
	Yes	39	04-024002.0000	6.170
Unknown Heirs or Assigns of C. W. Kerr (NPRI)	Yes	19	24-028008.0000	0.026
Unknown Heirs or Assigns of Catherine Burkhardt (NPRI)	Yes	39	04-024002.0000	12.339
	Yes	39	04-024002.0000	6.170
Unknown Heirs or Assigns of Delmas H. Gibbons (NPRI)	No	41	04-024016.0000	0.566
Unknown Heirs or Assigns of Dessie Gibbons (NPRI)	Yes	14b	04-004001.0000	28.548
Unknown Heirs or Assigns of Fred O. Sulsberger (NPRI)	Yes	36	04-013015.0000	1.952
	Yes	37	04-013001.0000	46.959
Unknown Heirs or Assigns of Gene R. Morris	No	22	04-009003.0000	3.055
Unknown Heirs or Assigns of J. S. Cawley (NPRI)	Yes	27b	04-009001.0000	3.211
	Yes	27b	04-009001.0000	3.211
	Yes	27b	04-009001.0000	6.421
	Yes	27b	04-009001.0000	6.421
Unknown Heirs or Assigns of Juanita Holmes (NPRI)	Yes	21	04-009005.0000	2.714
Unknown Heirs or Assigns of Margaret Mae (Straight) Winland (NPRI)	Yes	21	04-009005.0000	2.714
Unknown Heirs or Assigns of Paul Landefeld (NPRI)	Yes	21	04-009005.0000	2.714
Unknown Heirs or Assigns of Ralph A. McCammon	No	22	04-009003.0000	6.110
Unknown Heirs or Assigns of Roy E. McCammon	No	22	04-009003.0000	1.222
Vine Royalty L.P.	No	41	04-024016.0000	0.189
ATTN: Adam R. Cox, VP	No	22	04-009003.0000	1.222
Vivian Decker (NPRI)	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	6.110
	No	22	04-009003.0000	1.222
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	3.055
	No	22	04-009003.0000	1.222
W. Jeffrey Tyndall	No	40	04-013009.0000	0.157
Westhawk Minerals LLC	Yes	39	04-024002.0000	6.170
ATTN: Lester A. Zitkus, Sr. VP of Land				

William E. Moore III	No	1	12-028014.0000	1.366
	No	2	12-028017.0000	0.185
	No	3	12-028018.0000	2.591
	No	4	12-028016.0000	1.290
	No	5	12-028028.0000	3.130
	No	6	12-028015.0000	3.680

Working Interest Owners				
Name	Leased Yes or No	Tract Number(s)	Tax Map Parcel ID(s)	Surface Acres in Unit (Net)
Expand Appalachia LLC ATTN: Gray Barghols	Yes	1	12-028014.0000	1.366
	Yes	2	12-028017.0000	0.185
	Yes	3	12-028018.0000	2.591
	Yes	4	12-028016.0000	1.290
	Yes	6	12-028015.0000	3.680
	Yes	7	12-028005.0000	20.849
	Yes	8	12-028027.0000	28.124
	Yes	9	24-028002.0000	5.102
	Yes	10	04-003001.0000	5.943
	Yes	11	04-003004.0000	7.786
	Yes	12	04-003005.0000	1.526
	Yes	13	04-003003.0000	5.008
	Yes	14a	04-004001.0000	0.173
	Yes	14b	04-004001.0000	28.548
	Yes	15	04-003002.0000	5.041
	Yes	16	04-008011.0000	0.605
	Yes	17	04-008016.0000	2.518
	Yes	19	24-028008.0000	0.026
	Yes	20	04-009006.0000	46.176
	Yes	21	04-009005.0000	2.714
	Yes	23	04-009004.0000	13.840
	Yes	24	04-009017.0000	13.769
	Yes	25	04-009007.0000	1.440
	Yes	26	04-009009.0000	28.584
	Yes	27a	04-009001.0000	2.974
	Yes	27a	04-009001.0000	5.948
	Yes	27a	04-009001.0000	5.948
	Yes	27b	04-009001.0000	3.211
	Yes	27b	04-009001.0000	3.211
	Yes	27b	04-009001.0000	6.421
	Yes	27b	04-009001.0000	6.421
	Yes	27c	04-009001.0000	1.000
	Yes	27c	04-009001.0000	1.000
	Yes	27c	04-009001.0000	2.001
	Yes	27c	04-009001.0000	2.001
	Yes	28	04-009015.0000	0.352
	Yes	29	04-009002.0000	32.745
	Yes	30	04-009010.0000	3.764
	Yes	31	04-014007.0000	70.683
	Yes	32	04-013008.0000	1.331
	Yes	33	04-014006.0000	9.934
	Yes	33	04-014006.0000	7.929
	Yes	34	04-013010.0000	12.642
	Yes	34	04-013010.0000	10.090
	Yes	36	04-013015.0000	1.952
	Yes	36	04-013015.0000	1.952
	Yes	37	04-013001.0000	46.959
	Yes	37	04-013001.0000	46.959
	Yes	38	04-024006.0000	0.250
	Yes	38	04-024006.0000	0.125
	Yes	39	04-024002.0000	12.339
	Yes	39	04-024002.0000	6.170
Gulfport Appalachia, LLC ATTN: John Winzeler, CPL	Yes	5	12-028028.0000	3.130
	Yes	18	04-008017.0000	0.062
D & D Oil and Gas, LLC ATTN: Dean Christman	Yes	35	04-014009.0000	2.060
	Yes	35	04-014009.0000	2.060
Daniel Christman	Yes	35	04-014009.0000	0.687
	Yes	35	04-014009.0000	0.687

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)
Charles McCammon	No	22	04-009003.0000	6.110
Christa Brown	No	22	04-009003.0000	6.110
Christine Bail	No	22	04-009003.0000	6.110
Connie Smithberger	No	22	04-009003.0000	6.110
Doris Adkins Morris	No	22	04-009003.0000	3.055
Expand Appalachia LLC ATTN: Gray Barghols	N/A	1	12-028014.0000	1.366
	N/A	2	12-028017.0000	0.185
	N/A	3	12-028018.0000	2.591
	N/A	4	12-028016.0000	1.290
	N/A	5	12-028028.0000	3.130
	N/A	6	12-028015.0000	3.680
Gulfport Appalachia, LLC ATTN: John Winzeler, CPL	N/A	5	12-028028.0000	3.130
Lee Ann Killian	No	22	04-009003.0000	6.110
Linda Setty	No	22	04-009003.0000	6.110
Mary M. McCammon	No	22	04-009003.0000	1.222
Rodney Morris	No	22	04-009003.0000	3.055
Ron Morris	No	22	04-009003.0000	3.055

NPRI = Non-Participating Royalty Interest