



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Friday, July 24, 2026
WELL WORK PERMIT
Horizontal 6A / New Drill

EXPAND OPERATING LLC
6100 N WESTERN AVE.

OKLAHOMA CITY, OK 73118

Re: Permit approval for BETTY SCHAFER MSH 6H
47-051-02580-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

A handwritten signature in black ink, appearing to read "Jason Harmon", is written over the printed name and title.

H. Jason Harmon
Chief

Operator's Well Number: BETTY SCHAFER MSH 6H
Farm Name: APPALACHIAN MIDSTREAM SERVICES
U.S. WELL NUMBER: 47-051-02580-00-00
Horizontal 6A New Drill
Date Issued: 7/24/2026

Promoting a healthy environment.

07/24/2026

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Also, 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

07/24/2026

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

- 1) Well Operator: Expand Operating LLC 494533012 051-Marshall 6-Sand 486-Moundsville
Operator ID County District Quadrangle
- 2) Operator's Well Number: Betty Schafer MSH 6H Well Pad Name: Betty Schafer MSH
- 3) Farm Name/Surface Owner: Appalachia Midstream Services Public Road Access: Big Wheeling Creek
- 4) Elevation, current ground: 848.4' Elevation, proposed post-construction: 848.4'
- 5) Well Type (a) Gas ☒ Oil ☐ Underground Storage ☐
Other ☐
(b) If Gas Shallow ☒ Deep ☐
Horizontal ☒
- 6) Existing Pad: Yes or No Yes
- 7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Target Formation- Marcellus, Down-Dip well to the South, Target Top TVD- 5975', Target Base TVD- 6027', Anticipated Thickness- 52', Associated Pressure- 3904
- 8) Proposed Total Vertical Depth: 6245'
- 9) Formation at Total Vertical Depth: Marcellus
- 10) Proposed Total Measured Depth: 31,906'
- 11) Proposed Horizontal Leg Length: 21,969.21'
- 12) Approximate Fresh Water Strata Depths: 281'
- 13) Method to Determine Fresh Water Depths: Depth Reported from nearby well
- 14) Approximate Saltwater Depths: 810' salinity profile
- 15) Approximate Coal Seam Depths: 354'
- 16) Approximate Depth to Possible Void (coal mine, karst, other): None that we are aware of.
- 17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes ☒ No ☐
- (a) If Yes, provide Mine Info: Name: Ohio County Mine
Depth: 354'
Seam: Pittsburgh
Owner: ACNR

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State Court
Grader Court
3/26/2026

WW-6B
(04/15)

4705102580
API NO. 47- 051 -
OPERATOR WELL NO. Betty Schafer MSH 6H
Well Pad Name: Betty Schafer MSH

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94#	136'	136' ✓	CTS
Fresh Water	13 3/8"	New	J-55	54.4#	404'	404' ✓	459 sx/CTS
Coal	See	Surface	Casing				
Intermediate	9 5/8"	New	J-55	36#	1705'	1705' ✓	686 sx/CTS ✓
Production	5 1/2"	New	P-110 HP	20#	31906'	31906' ✓	Tail 6142sx/ 100' Inside Intermediate
Tubing							
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	30"	0.25	2120	81	Class A	1.20/30% Excess
Fresh Water	13 3/8"	17.5"	0.330	1730	633	Class A	1.20/30% Excess
Coal	See	Surface	Casing				
Intermediate	9 5/8"	12 1/4"	0.352	3520	1768	Class A	1.19/40% Excess
Production	5 1/2"	8 3/4"-8 1/2"	0.361	14360	10500 ✓	Class A	1.19/10-15% Excess
Tubing							
Liners							

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PACKERS

Kind:				
Sizes:				
Depths Set:				

Shelley
STRADEP LOWER
3/26/2026

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill and stimulate any potential zones between and including the Benson to Marcellus. **If we should encounter a void place basket above and below void area- balance cement to bottom of void and grout from basket to surface or run external casing packer/cementing stage tool above void interval and perform 2 stage cementing operation dependent upon depth of void. Run casing not less than 20' below void nor more than 75' below void. (*If freshwater is encountered deeper than anticipated it must be protected, set casing 50' below and cts.)

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Well will be perforated within the target formation and stimulated with a slurry of water, sand, and chemical additives at a high rate. This will be performed in stages with the plug and perf method along the wellbore until the entire lateral has been stimulated within the target formation. All stage plugs are then drilled out and the well is flowed back to surface. In some instances, additional toe prep may be performed by pumping additional water in the toe of the well prior to perforating and pumping Stage 1 to ensure that the toe guns/toe sleeves are fully open prior to pumping stage 1. The well is produced through surface facilities consisting of high pressure production units, horizontal separation units, water and oil storage tanks. Max press and anticipated max rate- 12,500 psi @ 100 barrels a minute.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 7.82

22) Area to be disturbed for well pad only, less access road (acres): 2.99

23) Describe centralizer placement for each casing string:

All casing strings will be ran with a centralizer at a minimum of 1 per every 3 joints of casing.

24) Describe all cement additives associated with each cement type:

See Attachment ***

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25) Proposed borehole conditioning procedures:

All boreholes will be conditioned with circulation and rotation for a minimum of one bottoms up and continuing until operator is satisfied with borehole conditions.

*Note: Attach additional sheets as needed.

STRADER
3/26/2026
Page 3 of 3
07/24/2026

CEMENT ADDITIVES						
INTERVAL	SCHLUMBERGER PRODUCT NAME	BJ PRODUCT NAME	NEXTIER PRODUCT NAME	PRODUCT USE	CHEMICAL NAME	CAS-Number
SURFACE (FRESHWATER) up to 3%	XXXXXX	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	S001	A-7P	0110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
COAL PROTECTION up to 3%	XXXXXX	INTEGRA SEAL	0600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
INTERMEDIATE	D020	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	0047	FP 28L	XXXXXX	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
	XXXXXX	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	CemNet	XXXXXX	XXXXXX	LOST CIRC MATERIAL	COATED FIBERGLASS FIBERS	PROPRIETARY
	SUGAR	SUGAR	CJ795	CMT RETARDER	SUCROSE	57-50-1
	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
PRODUCTION	XXXXXX	XXXXXX	CJ111	ACCELERATOR	SODIUM CHLORIDE	7440-23-5
	XXXXXX	55-IIW	0880	SURFACTANT	NONIONIC SURFACTANT	6540-99-4
	D047	FP 28L	XXXXXX	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
	XXXXXX	XXXXXX	OX157011	SOLID ANTIFOAM AGENT	FULLERS EARTH(ATTAPULGITE)	8031-18-3
	XXXXXX	XXXXXX	CJ540	HP FLUID LOSS ADDITIVE	ALIPHATICAMIDE POLYMER	PROPRIETARY
	0255	XXXXXX	XXXXXX	MED TEMP FLUID LOSS ADDITIVE	POLYACRILIC POLYMER	PROPRIETARY
	XXXXXX	XXXXXX	CJ213	RETARDER	CHRYSTALLINE SILICA	14808-60-7
	XXXXXX	FL-66	0501	LOW TEMP FLUID LOSS ADD	POWDERED POLYSACCHARIDE	PROPRIETARY
	XXXXXX	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D208	ASA-301	XXXXXX	VISCOFIER/ANTI- SETTLING AGENT	REFINED POLYMER/ CHRYSTALLINE SILICA	PROPRIETARY
	D198	R-3	XXXXXX	CEMENT RETARDER	LIGNIN	8068-51-6
	SUGAR	SUGAR	CJ795	CEMENT RETARDER	SUCROSE	57-50-1
	D065	XXXXXX	XXXXXX	DISPERSANT	SODIUM POLYNAPHTHALENE SULFONATE	8068-51-6
	D800	XXXXXX	XXXXXX	CEMENT RETARDER (Mid-Temperature)	SODIUM LIGNOSULFONATE	8061-51-6

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4705102580

Expand Energy				Proposed Drilling Program	
Well:	Betty Schafer MSH 6H			Drilling Rig:	EDC 41
Field:	Panhandle			Formation:	Marcellus Shale
County:	Marshall			State:	WV
SHL (NAD83):	39.990792	Latitude	-80.635672	Longitude	
BHL (NAD83):	39.929786	Latitude	-80.589994	Longitude	
KB Elev:	875 ft MSL	KB Height:	26 ft AGL	GL Elev:	849 ft MSL

NO COAL VOID EXPECTED

PROD TOC @ 1,705' MD

TUBULAR DETAIL					
Casing String	Casing Size (in)	Weight (Min)	Grade (Min)	Planned Interval	
				From	To
Conductor	20	94.0 #	J-55	0'	136'
Surface/Coal	13.375	54.4 #	J-55	0'	404'
Intermediate	9.625	36.0 #	J-55	0'	1,705'
Production	5.5	20.0 #	P-110 HP	0'	31,906'

CEMENT DETAIL

	Sacks	Class	Density
Conductor	173	A	19.3
Surface	459	A	15.6
Intermediate	686	A	15.6
Production	6142	A	14.5-15.0

KOP at 5,423' MD

Freshwater Depth - 281' TVD
Coal Depth - 354' TVD
Saltwater Depth - 810' TVD
TVD - 6,245'
TMD - 31,906'

6,007' TVD Target Center

TD at 31,906' MD
6,245' TVD

LP at 6,369' MD
SHL Onondaga 6,027' TVD

Onondaga 6,265' TVD

136' to 424'
↓
Air/Mist

424' to 1,725'
↓
Air/Mist

1,725' to 5,423'
↓
Air/Mist

TD at 5,423'

5,423' to 6,369'
12.0-12.5 ppg

6,369' to 31,906'
12.5-13.5 ppg

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STRADER GOWDER
3/21/2026

07/24/2026

4705102580

WW-9
(4/16)

API Number 47 - 051 -
Operator's Well No. Betty Schafer MSH 6H

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Expand Operating LLC OP Code 494533012

Watershed (HUC 10) Wheeling Creek Quadrangle Moundsville

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes ☒ No ☐

Will a pit be used? Yes ☐ No ☒

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes ☐ No ☒ If so, what ml.? _____

Proposed Disposal Method For Treated Pit Wastes:

- ☐ Land Application
- ☒ Underground Injection (UIC Permit Number Various Approved Facilities)
- ☒ Reuse (at API Number At the next anticipated well)
- ☐ Off Site Disposal (Supply form WW-9 for disposal location)
- ☒ Other (Explain recovery and solidification on site)

Will closed loop system be used? If so, describe: Yes- See Attachment 3A

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air drill to KOP, fluid drill with SOBM from KOP to TD

-If oil based, what type? Synthetic, petroleum, etc. Synthetic Oil Base

Additives to be used in drilling medium? Attachment 3B

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. landfill

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) _____

-Landfill or offsite name/permit number? Meadowfill SWF- 1032, Short Creek SWF-1034, Carbon Limestone MSWL018781, Wetzel County 1021

Apex Sanitary Landfill 06-08438, Brooke Co SWF-1013, FMS 353100

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Brittany Woody

Company Official (Typed Name) Brittany Woody

Company Official Title Senior Regulatory Analyst

Subscribed and sworn before me this 5 day of Feb, 20 26

Elizabeth Blankenship

My commission expires 6/23/2029

Notary Public



Operator's Well No. Betty Schafer MSH 6HExpand Operating LLCProposed Revegetation Treatment: Acres Disturbed 7.82 Prevegetation pH _____Lime as determined by pH test min.2 Tons/acre or to correct to pH 2.99Fertilizer type 10-20-20Fertilizer amount 600/500 lbs/acreMulch Hay/Straw Tons/acreSeed MixturesTemporaryPermanent

Seed Type lbs/acre

Seed Type lbs/acre

Attachment 3C

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Steve and STRADERGOWER

Comments: _____

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WV Department of
Environmental ProtectionTitle: Oil & Gas InspectorDate: 3/24/2026

Field Reviewed?

☒ Yes☐ No

07/24/2026

4705102580

MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN



Expand Energy
1300 Fort Pierpont Drive, Suite 201
Morgantown, West Virginia 26508

API NO. 47-XXX-XXXXX
WELL NAME: Betty Schafer MSH 6H
Moundsville QUAD
Sand Hill DISTRICT
MARSHALL COUNTY, WEST VIRGINIA

Submitted by:

Name: Brittany Woody

Brittany Woody

Date: 1/14/2026

Title: Senior Regulatory Analyst

Expand Energy

Approved by:

Name: STRADER GOWER

Date: 3/26/2026

Title: OIL & GAS INSPECTOR

Approved by:

Name: _____

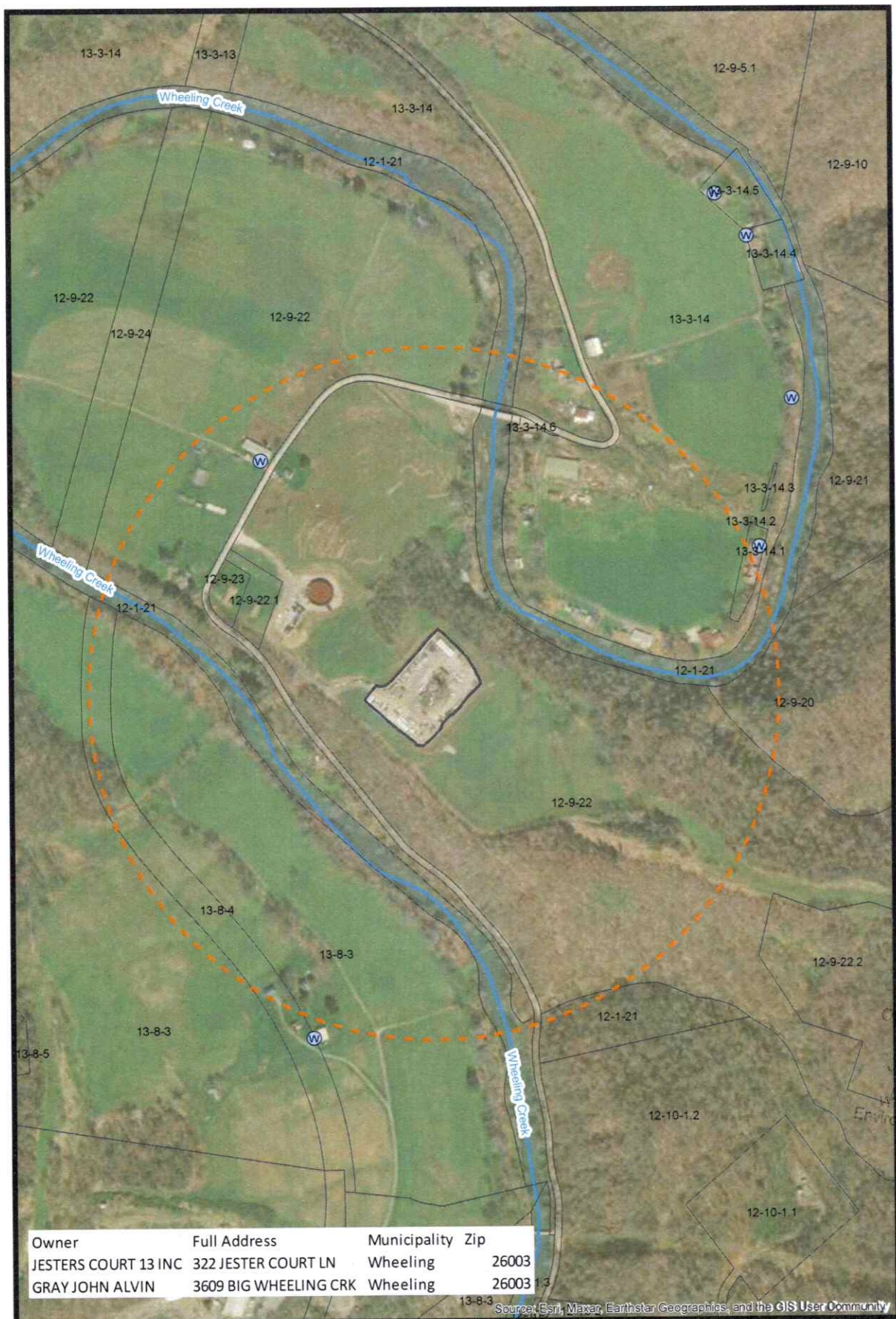
Date: _____

Title: _____

Expand Energy – CONFIDENTIAL

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The intent of this map is for general reference only. Information on this map was created using the best available data at the time but is not guaranteed accurate.

Water Purveyor Map		Well Pad: Betty Schafer	County: Marshall
Radius - 1500 ft	Map by: youngst Nad 83 UTM Zone 17	Date: 6/12/2023 	1 inch = 472 feet

Water Sources
 ● Spring
 W Water Well
 ● Pond

07/24/2026

JACKSON SURVEYING
INC.
2413 EAST PIKE ST. # 112
Clarksburg, WV 26302
304-623-5851

Latitude: 39°57'30" SURFACE HOLE 2990'
BOTTOM HOLE 1,867'

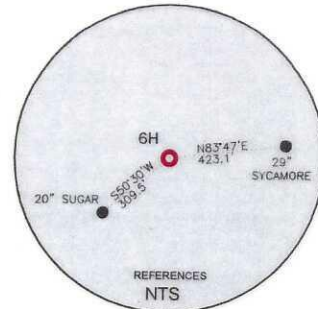
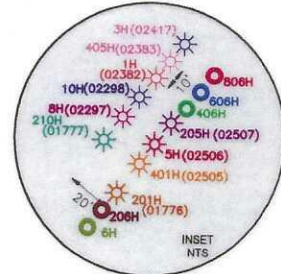
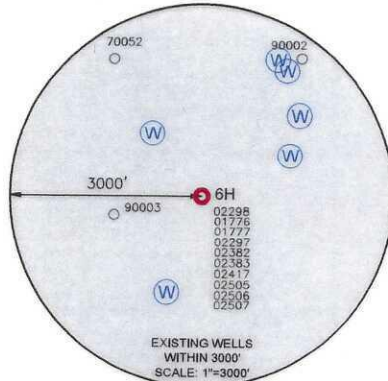
SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,426,798.750
EASTING: 531,103.172

LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,426,608.890
EASTING: 531,121.768

BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,420,044.704
EASTING: 535,033.884

GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 70°18'46" W	800.88'	SHL TO LANDMARK	FD. 5/8" REBAR
L2	S 60°04'01" E	1700.21'	SHL TO LANDMARK	FD. 5/8" REBAR
L4	S 51°28'28" E	3463.91'	AZL3 TO AZL4	
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	S 05°35'38" W	625.88'	769.82'	SHL TO LPL



WELL RESTRICTIONS

- NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
- NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
- NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
- NO PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
- NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

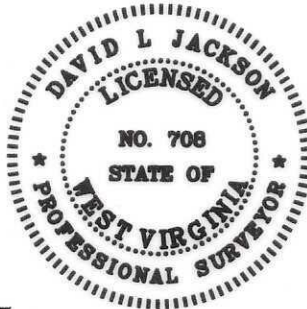
NOTES ON SURVEY

- SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 708

David L Jackson



2000 0 2000
GRAPHIC SCALE IN FEET

COMPANY:

expand



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25034

MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)

BETTY SCHAFER MSH
OPERATOR'S WELL #: 6H
API WELL #: 47 051 02580
STATE COUNTY PERMIT

WELL TYPE: OIL ☐ WASTE DISPOSAL ☐ PRODUCTION ☒ DEEP ☐ GAS ☒ LIQUID INJECTION ☐ STORAGE ☐ SHALLOW ☒
WATERSHED: WHEELING CREEK (HUC-10) ELEVATION: 848.4'
DISTRICT: SAND HILL COUNTY: MARSHALL QUADRANGLE: MOUNDSVILLE, WV
SURFACE OWNER: APPALACHIA MIDSTREAM SERVICES ACREAGE: ±205.06
OIL & GAS ROYALTY OWNER: BRENDA M. SCHAFER & ROY ALVIN SCHAFER, JR. ACREAGE: ±205.06
DRILL ☒ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☒ PLUG OFF OLD FORMATION ☐ PERFORATE NEW FORMATION ☐
CONVERT ☐ PLUG & ABANDON ☐ CLEAN OUT & REPLUG ☐ OTHER CHANGE ☐ (SPECIFY) 07/24/2026
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,245 TVD 31,906 TMD

WELL OPERATOR: EXPAND OPERATING LLC
ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200
CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

DESIGNATED AGENT: BRITTANY WOODY
ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200
CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

LEGEND:

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- EXISTING / PRODUCING WELLHEAD
- LPL: LANDING POINT LOCATION
- EXISTING WATER WELL
- EXISTING SPRING

- SURVEYED BOUNDARY
- DRILLING UNIT
- LEASE BOUNDARY
- PROPOSED PATH

REVISIONS:

DATE: 02-16-2026

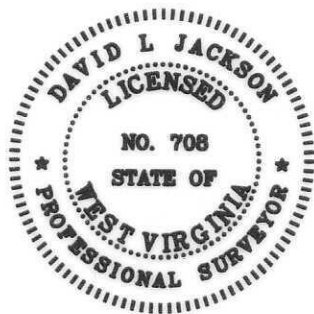
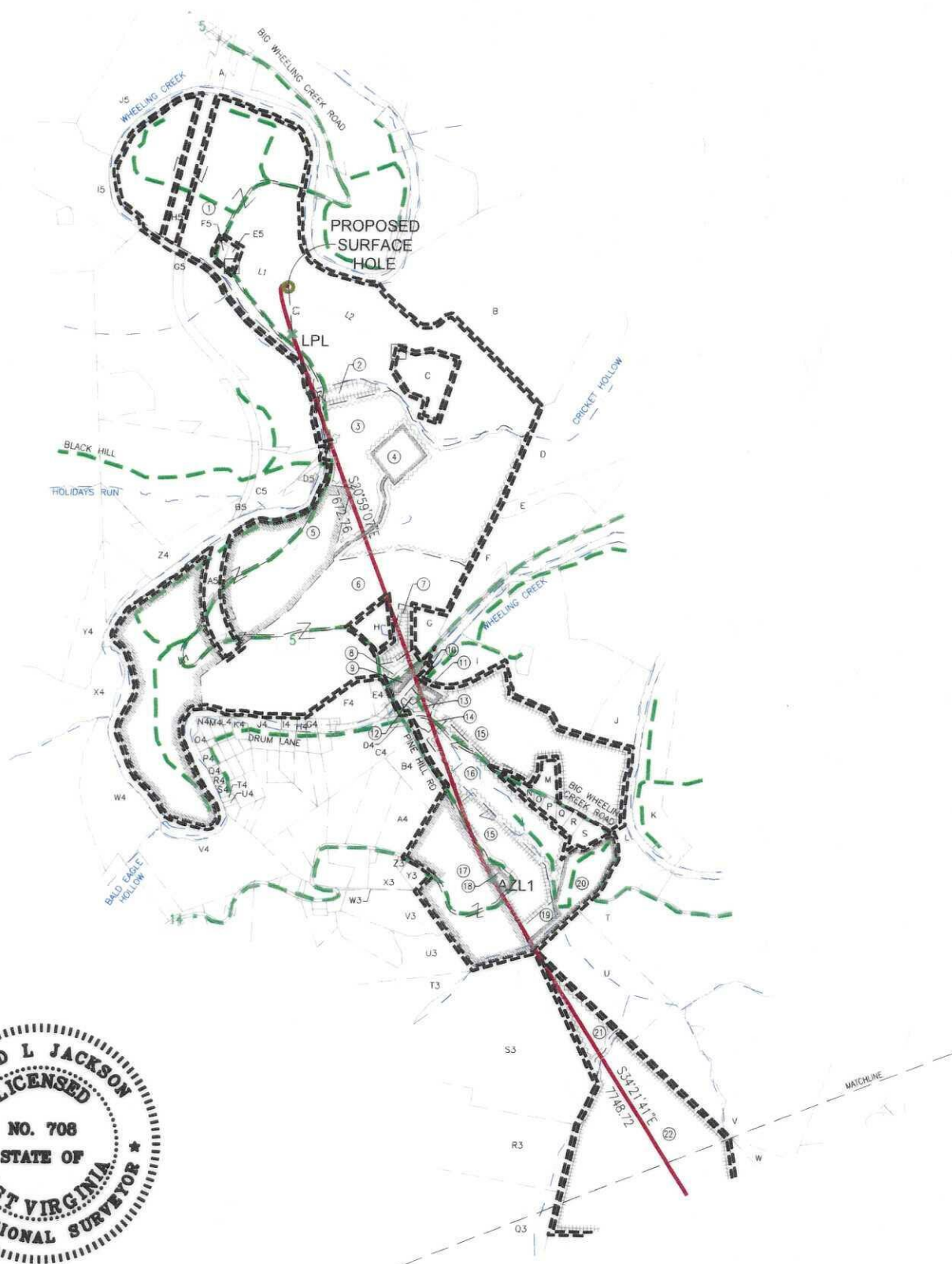
DRAWN BY: N. MANO

SCALE: 1" = 2000'

DRAWING NO:

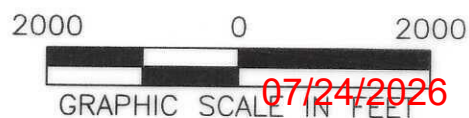
WELL LOCATION PLAT

2413 EAST PIKE ST. # 112
Clarksburg, WV 26302
304-623-5851



P.S. 708

DEPARTMENT OF ENVIRONMENTAL PROTECTION.
David L Jackson



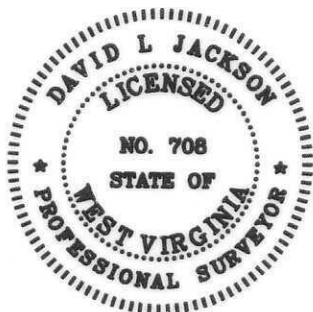
REVISIONS: 47-051-02580

COMPANY:



OPERATOR'S BETTY SCHAFFER MSH		API #	DATE: 02-16-2026
WELL #: 6H		47-051-0258	DRAWN BY: N. MANO
DISTRICT: SAND HILL	COUNTY: MARSHALL	STATE: WV	SCALE: 1" = 2000'
			DRAWING NO:
			WELL LOCATION PLAT 2

2413 EAST PIKE ST. # 112
Clarksburg, WV 26302
304-623-5851



I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 708

David L Jackson

07/24/2026

REVISIONS: 47-051-02580 	COMPANY: 		
	OPERATOR'S BETTY SCHAFER MSH WELL #: 6H	API # 47-051-	DATE: 02-16-2026
	DISTRICT: SAND HILL	COUNTY: MARSHALL	DRAWN BY: N. MANO
		STATE: WV	SCALE: N/A
			DRAWING NO:
			WELL LOCATION PLAT 3

JACKSON SURVEYING
INC.
2413 EAST PIKE ST. # 112
Clarksburg, WV 26302
304-623-5851

WELL BORE TRACTS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	APPALACHIA MIDSTREAM SERVICES (S)/SCHAFER BRENDA M. & SCHAFER ROY ALVIN JR. (R)	12-9-22
TRACT	SURFACE OWNER (S)	TAX PARCEL
2	ROMAN EUGENE H (S)	12-10-1
3	FISH PATRICIA A & FREDERICK W(S)	12-10-1.2
4	OHIO COUNTY COAL RESOURCES INC (S)	12-10-1.1
5	MEADOW LAKE CLUB CO (S)	12-10-2
6	WILSON RUSSELL ROBERT II & ZUREK CHRISTINE (S)	12-10-4
7	WILSON CHARLES H EST (S)	12-10-4.1
8	WILSON PHILIP C ET AL (S)	12-10-6
9	WILSON CHARLES H EST (S)	12-10-4.2
10	WILSON PHILIP C & NANCY L (S)	15-1-4.7
11	WILSON PHILIP C & NANCY L (S)	15-1-4.4
12	WILSON PHILIP C & NANCY L (S)	15-1-4.5
13	WILSON PHILIP C & NANCY L (S)	15-1-4.6
14	WILSON PHILIP C & NANCY L (S)	15-1-4.13
15	GEETA (S)	15-1-4
16	STATE OF W VA THE CONSER COMM (S)	15-1-4.1
17	WHITLATCH DEBORAH S & BRENDA J HARRIS (S)	13-9-18
18	HERCULES TINA (S)	15-1-4.2
19	WISELKA MELINDA DAWN (S)	15-1-4.3
20	STATE OF W VA THE CONSER COMM (S)	15-1-5.1
21	WHITLATCH DEBORAH S & HARRIS BRENDA J EST (S)	15-1-21
22	ISKCON - NEW MATHURA VRINDABAN (S)	15-2-2
23	WEBER GIRIDHARI D (S)	15-2-5.5
24	SATSANGI ADITYA & KONISHA (S)	15-2-5.4
25	ISKCON NEW VRINDABAN INC (S)	15-2-5
26	VRINDAVILLE DEVELOPMENT INC (S)	15-2-5.11
27	CARLSON GREGORY D & MADRI (S)	15-2-12.12
28	GENTLE SEAN & LISA (S)	15-2-12.13
29	CLOTHIER VRINDA D ET AL (S)	15-2-12.11
30	ORTEGA GILDA (S)	15-2-12.6
31	MARCELO VANESSA (S)	15-2-12.9
32	MOHAN NAITHANI P & RENATA (S)	15-2-12.4
33	COFFIELD CLARENCE EST (S)	15-3-29
34	GIVENS JASPER N (S)	15-3-28
35	GALL EDNA S & FRANK P LAUTAR (S)	15-6-1
36	FITZSIMMONS MARK B & DEBORAH A (S)	15-6-2
37	FITZSIMMONS MARK B & DEBORAH A (S)	15-6-9
38	FITZSIMMONS MARK B & DEBORAH A (S)	15-6-8
39	FITZSIMMONS MARK B ET UX - TOD (S)	15-6-12
40	FITZSIMMONS KATIE L (S)	15-6-13
41	FITZSIMMONS MARK B & DEBORAH A- TOD (S)	15-6-15
42	KAISER JOE M & SHIRLEY A FAMILY REVOCABLE TRUST (S)	15-6-17

07/24/2026

REVISIONS:	47-051-02580	COMPANY:			
					
		OPERATOR'S BETTY SCHAFER MSH		API #	DATE: 02-16-2026
		WELL #: 6H		47-051-02580	DRAWN BY: N. MANO
		DISTRICT:	COUNTY:	STATE:	SCALE: N/A
		SAND HILL	MARSHALL	WV	DRAWING NO:
					WELL LOCATION PLAT 4

JACKSON SURVEYING
INC.

2413 EAST PIKE ST. # 112
Clarksburg, WV 26302
304-623-5851

ADJOINING OWNERS TABLE			ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL	TRACT	SURFACE OWNER	TAX PARCEL
A	GRAY JUDY C	13-3-13	G3	CLOTHIER THOMAS N & SARINA M LIVING REVOCABLE TRUST	15-2-12.10
B	FISHER CHARLES B & CARLA S	12-9-20	H3	DUDZINSKA IWONA	15-2-12.7
C	OHIO COUNTY COAL RESOURCES INC	12-9-22.2	I3	ONE WORLD ONE FAMILY SPIRITUAL SOCIETY INC	15-2-12.3
D	MERINAR CALVIN C - LIFE	12-9-19	J3	THIBEAULT PATRICIA	15-2-12.1
E	MERINAR CALVIN C - LIFE	12-10-7	K3	SINGH TARAN & SABITREE S	15-2-12
F	GEETA	15-1-2	L3	SINGH TARAN & SABITREE S	15-2-5.2
G	WILSON PHILIP C ET UX	12-10-4.3	M3	SINGH TARAN & SABITREE S	15-2-12.2
H	HICKS ROBT P & JANICE A	12-10-5	N3	CONNER LISA M	15-2-8.2
I	GEETA	15-1-3	O3	ONE WORLD ONE FAMILY SPIRITUAL SOCIETY INC	15-2-8.3
J	WHITE WILLIAM E & WILLIAM JAGANNATHA	15-1-2.2	P3	SNYDER HARRY BRENT	15-2-15
K	MERINAR KENNETH L ET AL	12-10-9	Q3	EQT PRODUCTION COMPANY	15-2-16
L	LORENCE THOMAS & SILVIA LAU	15-1-5	R3	EQT PRODUCTION COMPANY	15-2-1
M	PURE GHEE INC	15-1-4.15	S3	WHITLATCH DEBORAH S & HARRIS BRENDA J EST	15-1-22
N	GORAKSHYA-SEVA & ENVIRONMENTAL TRUST OF AMERICA	15-1-4.11	T3	BERTRAM LUKE D & ALISON M	13-14-19
O	GORAKSHYA-SEVA & ENVIRONMENTAL TRUST OF AMERICA	15-1-4.10	U3	BERTRAM LUKE D & ALISON M	13-9-23
P	NEWBERRY PHILIP E	15-1-4.16	V3	SHIPMAN CARRIE A ET AL	13-9-21
Q	NEWBERRY PHILIP E	15-1-4.9	W3	SHIPMAN CARRIE A ET AL	13-9-19
R	SHELDON TERRY RAY	15-1-4.12	X3	GARDNER ZACHARY R	13-9-20.2
S	ROBSON THEODORA J - TOD	15-1-4.8	Y3	PLANTS GARY & PAUL	13-9-18.1
T	GEETA	15-1-6	Z3	GARDNER ROBERT A ET UX	13-9-20.3
U	GEETA	15-1-20	A4	LYNSKEY MARY D	13-9-16.3
V	ROSE TATIA JOSEPHINE	15-1-19	B4	LYNSKEY JOHN T	13-9-17
W	GAFFOOR SHAM & VIDYA RAMKAREE	15-2-3.8	C4	LYNSKY JOHN T ET UX	13-9-16.1
X	ISKCON - NEW MATHURA VRINDABAN	15-2-3	D4	GEETA	13-9A-29
Y	ORDONEZ CARLOS	15-2-5.3	E4	WILSON PHILIP C & NANCY L	12-10-4.5
Z	PATEL RAMESH & VINA	15-2-5.7	F4	WILSON RUSSELL ROBERT II & ZUREK CHRISTINE	12-10-4.4
A2	IMSENG JOSEF & ARTHI SHIVANAND	15-2-5.10	G4	JOCHUM MARK SCOTT	13-9A-26
B2	L ONE LLC	15-2-5.6	H4	POMPEO MICHAEL J & ELIZABETH	13-9A-23
C2	SPIRIT GARDEN CHARITABLE FOUNDATION TRUST	15-2-5.8	I4	JOCHUM BRUCE & SALLY	13-9A-22
D2	SPIRIT GARDEN CHARITABLE FOUNDATION TRS	15-2-5.9	J4	STILLWELL ROBERT L - LIFE	13-9A-30
E2	GEETA	15-2-3.5	K4	CUNNINGHAM ROBERT T & MARY C	13-9A-20
F2	ANDERSON SARA JO	15-2-4	L4	CUNNINGHAM ROBERT T & MARY C	13-9A-19
G2	SHIPLEY JAMES S	15-3-27	M4	CUNNINGHAM ROBERT TERRY	13-9A-16
H2	SHIPLEY JAMES S	15-3-26	N4	JUREK EDWARD PAUL JR & TAMELA S	13-9A-15
I2	GRIMM JOYCE E	15-6-3	O4	WEST JONATHAN SCOTT	13-9A-13
J2	DUNLAP LARRY W & BARBARA E	15-6-9.2	P4	REAM FRED M & JUDITH P	13-9A-12
K2	STROPE ANTHONY	15-6-4	Q4	KIRCHNER GREGORY A & RYAN T	13-9A-4
L2	STROPE ANTHONY	15-6-6.5	R4	WHITE GLENN E & MARTHA R- TOD	13-9A-4.1
M2	DUNLAP LARRY W & BARBARA	15-6-9.1	S4	HUTCHISON J ROBERT	13-9A-3
N2	ANGEL KYLEA & ADAM	15-6-9.3	T4	NEIDHARDT CHRISTOPHER E - TOD	13-9A-2
O2	ANGEL KYLEA J	15-6-6.3	U4	NEIDHARDT CHRISTOPHER E - TOD	13-9A-2.1
P2	FITZSIMMONS KATIE L	15-6-7	V4	MCWHORTER WILLIAM L III & CRYSTAL A	13-9-13
Q2	BURKEY MICHAEL J & LUNDA	15-6-14	W4	MARSHALL LAND LLC	13-9-12
R2	FOSTER KERRY GLENN ET UX	15-6-24	X4	CUNNINGHAM BESSIE JANE	13-9-11
S2	STROPE CRAIG D	15-9-14	Y4	DEBOLT JANICE	13-9-2
T2	YOHO RONALD LEE	15-9-13	Z4	HOGG THOMAS G & DONN W ET AL	13-8-3
U2	YOHO RONALD LEE & REBECCA A	15-9-12	A5	MEADOW LAKE CLUB CO	12-10-3
V2	YOHO DONALD RET UX	15-9-12.2	B5	OHIO COUNTY COAL RESOURCES INC	13-8-4.1
W2	SIBURT RICHARD A & PAULA S	15-9-11.2	C5	OHIO COUNTY COAL RESOURCES INC	13-8-3.2
X2	ESTEL HERMAN D	15-6-17.2	D5	CNX LAND LLC	12-10-1.3
Y2	LILLEY RONALD E SR - TOD	15-6-17.1	E5	APPALACHIA MIDSTREAM SERVICES LLC	12-9-22.1
Z2	COFFIELD WILLIAM E & BRENDA K ET AL	15-6-16	F5	APPALACHIA MIDSTREAM SERVICES LLC	12-9-23
A3	MILLER R CRAIG & DONITA D	15-6-11	G5	HOGG THOMAS G DONN W ET AL	13-8-4
B3	KWIATKOSKI ANGELIQUE A	15-6-10	H5	APPALACHIA MIDSTREAM SERVICES LLC	12-9-24
C3	MOREAU DENIS J & MARGARET COUTU-MOREAU ET AL	15-6-24.4	I5	HART JOHN J & RENEE A	13-8-2.1
D3	ECO-VRINDABAN INC	15-2-13	J5	GRAY JUDY C	13-3-14
E3	BAUER SUSAN - TOD	15-2-12.8			
F3	LUKOSEVICIUS GINTARAS	15-2-12.5			

07/24/2026

REVISIONS: 47-051-02580

COMPANY:



OPERATOR'S BETTY SCHAFFER MSH

API #

DATE: 02-16-2026

WELL #: 6H

47-051-02580

DRAWN BY: N. MANO

DISTRICT: SAND HILL

COUNTY: MARSHALL

STATE: WV

SCALE: N/A

DRAWING NO:

WELL LOCATION PLAT 5

WW-6A1
(5/13)

Operator's Well No. Betty Schafer MSH 6H

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
See Exhibit "A"				

*Co-tenancy utilization - At least 75% of the royalty owners have consented to the lawful use or development of the oil or natural gas mineral property on the tract. The interests of the remaining co-tenants will be secured pursuant to the Co-tenancy Modernization and Majority Protection Act.

*Horizontal well unit utilization - Subject to unitization filing with the West Virginia Oil and Gas Conservation Commission.

*Potentially Impacted Parcels - Parcels that may be impacted during drilling.

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: Expand Operating LLC

By: Kelley Ryan

Its: Landman II

RECEIVED
Office of Oil and Gas

JUN 23 2026

WV Department of
Environmental Protection

4705102580

EXHIBIT "A"
Betty Schafer MSH 6H
Marshall County, West Virginia

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by Expand Operating LLC, Operator

#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG	% INTEREST NOT LEASED BY EXPAND APPALACHIA LLC
1	12-9-22	Betty Jane Schafer, Widow, Roy Alvin Schafer, Jr. and Edward J Schafer	Tri Energy Holdings, LLC NPAR, LLC Chevron U.S.A. Inc Chesapeake Appalachia, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	722/505 24/199 756/332 30/532 33/110 1094/490	0%
		Roy Alvin Schafer, Jr.	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1077/97 1094/490	
		Edward John Schafer	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1077/102 1094/490	
2	12-10-1	Jewell L. Roman, a widow	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	852/615 1094/490	0%
3	12-10-1.2	Master Mineral Holdings I, L.P., by and through its general partner, PBEX Resources, LLC, by Charles W. Perry, Manager	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1120/19 1094/490	*50%
		Jewell L. Roman	CNX Gas Company LLC Noble Energy Inc HG Energy II Appalachia, LLC Antero Appalachia II LLC *See Letter Agreement Attached	at least 1/8th per WV Code §22-6-8	699/527 36/126 39/1 2/535	
		Janice Marie Yocum, a single woman	CNX Gas Company LLC Chesapeake Appalachia LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	700/21 840/180 33/110 1094/490	
4	12-10-1.1	Master Mineral Holdings I, L.P., by and through its general partner, PBEX Resources, LLC, by Charles W. Perry, Manager	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1120/19 1094/490	*50%
		Jewell L. Roman	CNX Gas Company LLC Noble Energy Inc HG Energy II Appalachia, LLC Antero Appalachia II LLC *See Letter Agreement Attached	at least 1/8th per WV Code §22-6-8	699/527 36/126 39/1 2/535	
		Janice Marie Yocum, a single woman	CNX Gas Company LLC Chesapeake Appalachia LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	700/21 840/180 33/110 1094/490	
5	12-10-2	Meadow Lake Club Company	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	940/77 54/254 1093/34, 48/263 1094/490	0%
6	12-10-4	Russell Robert Wilson II	Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1274/175	0%
		Sylvia Christine Zurek	Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1274/167	
7	12-10-4.1	Rebecca Walters and Glenn Walters, wife and husband	TH Exploration, LLC EQT TGH Exploration, LLC et al Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1160/275 2/463, 2/472 54/238	0%
		Philip C. Wilson and Nancy L. Wilson, husband and wife	TH Exploration, LLC EQT TGH Exploration, LLC et al Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1159/389 2/463, 2/472 54/238	
		David Matthew Dawson, a/k/a David Dawson and Carrie Dawson, husband and wife	TH Exploration, LLC EQT TGH Exploration, LLC et al Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1159/386 2/463, 2/472 54/238	
		George William Chaney, Jr., individually and Charlotte Chaney, his wife, by her Attorney-in-Fact, George William Chaney, Jr.	TH Exploration, LLC EQT TGH Exploration, LLC et al Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1159/392 2/463, 2/472 54/238	
8	12-10-6	Rebecca Walters and Glenn Walters, wife and husband	TH Exploration, LLC EQT TGH Exploration, LLC et al Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1160/275 2/463, 2/472 54/238	0%
		Philip C. Wilson and Nancy L. Wilson, husband and wife	TH Exploration, LLC EQT TGH Exploration, LLC et al Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1159/389 2/463, 2/472 54/238	

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Office of Oil and Gas
JUN 23 2026
WV Department of
Environmental Protection

		OWNER	INTEREST	WV CODE	WV CODE	PERCENTAGE OF INTEREST
		David Matthew Dawson, a/k/a David Dawson and Carrie Dawson, husband and wife	TH Exploration, LLC EQT TGHLL Exploration, LLC et al Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1159/386 2/463, 2/472 54/238	
		George William Chaney, Jr., individually and Charlotte Chaney, his wife, by her Attorney-in-Fact, George William Chaney, Jr.	TH Exploration, LLC EQT TGHLL Exploration, LLC et al Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1159/392 2/463, 2/472 54/238	
9	12-10-4.2	Rebecca Walters and Glenn Walters, wife and husband	TH Exploration, LLC EQT TGHLL Exploration, LLC et al Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1160/275 2/463, 2/472 54/238	0%
		Philip C. Wilson and Nancy L. Wilson, husband and wife	TH Exploration, LLC EQT TGHLL Exploration, LLC et al Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1159/389 2/463, 2/472 54/238	
		David Matthew Dawson, a/k/a David Dawson and Carrie Dawson, husband and wife	TH Exploration, LLC EQT TGHLL Exploration, LLC et al Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1159/386 2/463, 2/472 54/238	
		George William Chaney, Jr., individually and Charlotte Chaney, his wife, by her Attorney-in-Fact, George William Chaney, Jr.	TH Exploration, LLC EQT TGHLL Exploration, LLC et al Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1159/392 2/463, 2/472 54/238	
10	15-1-4.7	Philip C. Wilson and Nancy L. Wilson, husband and wife, as joint tenants with right of survivorship	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1071/632 1094/490	0%
		Zeborah H. Fried, a widow	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1034/291 54/254 1093/34, 48/263 1094/490	
		William F. Shepherd and Vicki S. Shepherd, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1052/572 54/254 1093/34, 48/263 1094/490	
		Wendy Jo Warsinsky and William L. Warsinsky, III, wife and husband	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1040/131 54/254 1093/34, 48/263 1094/490	
		Barbara J. Morris, widow	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1014/119 54/254 1093/34, 48/263 1094/490	
		Thomas P. Curow, a single man	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1032/62 54/254 1093/34, 48/263 1094/490	
		Thomas A. Naquin, a widower	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1046/607 54/254 1093/34, 48/263 1094/490	
		Sonja Taylor, widow	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1020/69 54/254 1093/34, 48/263 1094/490	
		Scott W. Lemmon, a single man	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1031/169 54/254 1093/34, 48/263 1094/490	
		Sandra H. Daigle and John R. Daigle, wife and husband	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1046/610 54/254 1093/34, 48/263 1094/490	
11	15-1-4.4	Cathy Lemmon, widow	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1020/22 54/254 1093/34, 48/263 1094/490	46%
		Kip Layne Wilson, a married man dealing in his sole and separate property	TH Exploration, LLC EQT TGHLL Exploration, LLC et al Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1144/554 2/463, 2/472 54/238	
		John K. Shepherd, Jr., a single man	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1032/36 54/254 1093/34, 48/263 1094/490	

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#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG	% INTEREST NOT LEASED BY EXPAND APPALACHIA LLC
		Jodi Ann Maddox and Sheldon S. Maddox, wife and husband	TH Exploration, LLC EQT TGH Exploration, LLC et al Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1144/549 2/463, 2/472 54/238	
		Jason R. Daigle and Rachel Y. Daigle, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1046/603 54/254 1093/34, 48/263 1094/490	
		APP Minerals LLC	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1091/455 54/254 1093/34, 48/263 1094/490	
		Bruce W. Shepherd and Diana K. Shepherd, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1052/565 54/254 1093/34, 48/263 1094/490	
		Brian J. Naquin, a single man	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1031/637 54/254 1093/34, 48/263 1094/490	
		Angelice Tibbitts, a married woman dealing in her sole and separate property	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1032/427 54/254 1093/34, 48/263 1094/490	
		Unleased owner (s) subject to unitization filing	N/A	N/A	N/A	
12	15-1-4.5	Zeborah H. Fried, a widow	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1034/291 54/254 1093/34, 48/263 1094/490	46%
		William F. Shepherd and Vicki S. Shepherd, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1052/572 54/254 1093/34, 48/263 1094/490	
		Wendy Jo Warsinsky and William L. Warsinsky, III, wife and husband	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1040/131 54/254 1093/34, 48/263 1094/490	
		Barbara J. Morris, widow	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1014/119 54/254 1093/34, 48/263 1094/490	
		Thomas P. Curow, a single man	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1032/62 54/254 1093/34, 48/263 1094/490	
		Thomas A. Naquin, a widower	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1046/607 54/254 1093/34, 48/263 1094/490	
		Sonja Taylor, widow	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1020/69 54/254 1093/34, 48/263 1094/490	
		Scott W. Lemmon, a single man	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1031/169 54/254 1093/34, 48/263 1094/490	
		Sandra H. Daigle and John R. Daigle, wife and husband	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1046/610 54/254 1093/34, 48/263 1094/490	
		Cathy Lemmon, widow	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1020/22 54/254 1093/34, 48/263 1094/490	
		Kip Layne Wilson, a married man dealing in his sole and separate property	TH Exploration, LLC EQT TGH Exploration, LLC et al Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1144/554 2/463, 2/472 54/238	

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		John K. Shepherd, Jr., a single man	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1032/36 54/254 1093/34, 48/263 1094/490	
		Jodi Ann Maddox and Sheldon S. Maddox, wife and husband	TH Exploration, LLC EQT TGH Exploration, LLC et al Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1144/549 2/463, 2/472 54/238	
		Jason R. Daigle and Rachel Y. Daigle, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1046/603 54/254 1093/34, 48/263 1094/490	
		APP Minerals LLC	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1091/455 54/254 1093/34, 48/263 1094/490	
		Bruce W. Shepherd and Diana K. Shepherd, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1052/565 54/254 1093/34, 48/263 1094/490	
		Brian J. Naquin, a single man	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1031/637 54/254 1093/34, 48/263 1094/490	
		Angelice Tibbils, a married woman dealing in her sole and separate property	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1032/427 54/254 1093/34, 48/263 1094/490	
		Unleased owner (s) subject to unitization filing	N/A	N/A	N/A	
13	15-1-4.6	Zeborah H. Fried, a widow	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1034/291 54/254 1093/34, 48/263 1094/490	46%
		William F. Shepherd and Vicki S. Shepherd, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1052/572 54/254 1093/34, 48/263 1094/490	
		Wendy Jo Warsinsky and William L. Warsinsky, III, wife and husband	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1040/131 54/254 1093/34, 48/263 1094/490	
		Barbara J. Morris, widow	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1014/119 54/254 1093/34, 48/263 1094/490	
		Thomas P. Curow, a single man	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1032/62 54/254 1093/34, 48/263 1094/490	
		Thomas A. Naquin, a widower	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1046/607 54/254 1093/34, 48/263 1094/490	
		Sonja Taylor, widow	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1020/69 54/254 1093/34, 48/263 1094/490	
		Scott W. Lemmon, a single man	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1031/169 54/254 1093/34, 48/263 1094/490	
		Sandra H. Daigle and John R. Daigle, wife and husband	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1046/610 54/254 1093/34, 48/263 1094/490	

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		Cathy Lemmon, widow	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1020/22 54/254 1093/34, 48/263 1094/490	
		Kip Layne Wilson, a married man dealing in his sole and separate property	TH Exploration, LLC EQT TGH Exploration, LLC et al Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1144/554 2/463, 2/472 54/238	
		John K. Shepherd, Jr., a single man	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1032/36 54/254 1093/34, 48/263 1094/490	
		Jodi Ann Maddox and Sheldon S. Maddox, wife and husband	TH Exploration, LLC EQT TGH Exploration, LLC et al Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1144/549 2/463, 2/472 54/238	
		Jason R. Daigle and Rachel Y. Daigle, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1046/603 54/254 1093/34, 48/263 1094/490	
		APP Minerals LLC	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1091/455 54/254 1093/34, 48/263 1094/490	
		Bruce W. Shepherd and Diana K. Shepherd, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1052/565 54/254 1093/34, 48/263 1094/490	
		Brian J. Naquin, a single man	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1031/637 54/254 1093/34, 48/263 1094/490	
		Angelice Tibbitts, a married woman dealing in her sole and separate property	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1032/427 54/254 1093/34, 48/263 1094/490	
Unleased owner (s) subject to unitization filing		N/A	N/A	N/A		
14	15-1-4.13	Philip C. Wilson and Nancy L. Wilson, husband and wife, as joint tenants with right of survivorship	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1071/632 1094/490	0%
15	15-1-4	Gorakshya-Seva and Environmental Educational Trust of America, Inc. (d/b/a GEETA)	NPAR, LLC Chevron U.S.A. Inc Chesapeake Appalachia LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	696/102 756/332 30/532 33/110 1094/490	0%
16	15-1-4.1	State of West Virginia, Department of Commerce, Division of Natural Resources	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1186/1 1094/490	0%
17	13-9-18	Brenda J. Harris, a married woman dealing in her sole and separate property	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1188/173 1094/490	0%
		Gary Plants and Helen V. Plants, husband and wife	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1193/252 1094/490	
		James W. Plants, a married man dealing in his sole and separate property	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1191/279 1094/490	
		Paul W. Plants and Constance Plants, husband and wife	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1191/653 1094/490	

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		Deborah S. Whitlatch, a/k/a Deborah Whitlatch, a married woman dealing in her sole and separate property	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1192/416 1094/490	
18	15-1-4.2	Zeborah H. Fried, a widow	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1034/291 54/254 1093/34, 48/263 1094/490	46%
		William F. Shepherd and Vicki S. Shepherd, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1052/572 54/254 1093/34, 48/263 1094/490	
		Wendy Jo Warsinsky and William L. Warsinsky, III, wife and husband	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1040/131 54/254 1093/34, 48/263 1094/490	
		Barbara J. Morris, widow	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1014/119 54/254 1093/34, 48/263 1094/490	
		Thomas P. Curow, a single man	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1032/62 54/254 1093/34, 48/263 1094/490	
		Thomas A. Naquin, a widower	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1046/607 54/254 1093/34, 48/263 1094/490	
		Sonja Taylor, widow	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1020/69 54/254 1093/34, 48/263 1094/490	
		Scott W. Lemmon, a single man	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1031/169 54/254 1093/34, 48/263 1094/490	
		Sandra H. Daigle and John R. Daigle, wife and husband	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1046/610 54/254 1093/34, 48/263 1094/490	
		Cathy Lemmon, widow	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1020/22 54/254 1093/34, 48/263 1094/490	
		Kip Layne Wilson, a married man dealing in his sole and separate property	TH Exploration, LLC EQT TGH Exploration, LLC et al Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1144/554 2/463, 2/472 54/238	
		John K. Shepherd, Jr., a single man	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1032/36 54/254 1093/34, 48/263 1094/490	
		Jodi Ann Maddox and Sheldon S. Maddox, wife and husband	TH Exploration, LLC EQT TGH Exploration, LLC et al Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1144/549 2/463, 2/472 54/238	
		Jason R. Daigle and Rachel Y. Daigle, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1046/603 54/254 1093/34, 48/263 1094/490	
	APP Minerals LLC	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1091/455 54/254 1093/34, 48/263 1094/490		
	Bruce W. Shepherd and Diana K. Shepherd, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1052/565 54/254 1093/34, 48/263 1094/490		

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		Brian J. Naquin, a single man	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1031/637 54/254 1093/34, 48/263 1094/490	
		Angelice Tibbils, a married woman dealing in her sole and separate property	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1032/427 54/254 1093/34, 48/263 1094/490	
		Unleased owner (s) subject to unitization filing	N/A	N/A	N/A	
19	15-1-4.3	Melinda Dawn Etheredge, a married woman dealing in her sole and separate property	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1033/530 54/254 1093/34, 48/263 1094/490	0%
20	15-1-5.1	State of West Virginia, Department of Commerce, Division of Natural Resources	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1186/1 1094/490	0%
21	15-1-21	Brenda J. Harris, a married woman dealing in her sole and separate property	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1188/173 1094/490	0%
		Gary Plants and Helen V. Plants, husband and wife	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1193/252 1094/490	
		James W. Plants, a married man dealing in his sole and separate property	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1191/279 1094/490	
		Paul W. Plants and Constance Plants, husband and wife	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1191/653 1094/490	
		Deborah S. Whitlatch, a/k/a Deborah Whitlatch, a married woman dealing in her sole and separate property	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1192/416 1094/490	
22	15-2-2	AMP Fund III, LP	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	925/459 44/254 1093/34, 48/263 1094/490	0%
23	15-2-5.5	Giridhari D. Weber	NPAR, LLC Chevron U.S.A. Inc Chesapeake Appalachia LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	698/125 756/332 30/532 33/110 1094/490	0%
24	15-2-5.4	ISKCON New Vrindaban, Inc.	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1208/332 1094/490	0%
25	15-2-5	International Society of Krishna Consciousness – New Mathura Vrindabn, Inc.	NPAR, LLC Chevron U.S.A. Inc Chesapeake Appalachia LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	696/148 756/332 30/532 33/110 1094/490	0%
26	15-2-5.11	International Society of Krishna Consciousness – New Mathura Vrindabn, Inc.	NPAR, LLC Chevron U.S.A. Inc Chesapeake Appalachia LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	696/148 756/332 30/532 33/110 1094/490	0%
27	15-2-12.12	Hema K. Mulchand, a single woman	EQT TGH Exploration, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1192/139 54/238	0%
28	15-2-12.13	Peaceful Manor, LLC	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1197/361 1094/490	0%

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29	15-2-12.11	Vrinda D. Clothier	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1207/671 1094/490	0%
		Christopher L. Harkness	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1230/43 1094/490	
30	15-2-12.6	Gelda Ortega	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1208/326 1094/490	0%
31	15-2-12.9	Theresa Marie Linerode, a/k/a Theresa M. Prebble, a married woman dealing in her sole and separate property	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1199/418 1094/490	0%
32	15-2-12.4	Naithani Prakash Mohan and Renata Bruza	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1208/22 1094/490	0%
33	15-3-29	Bernice Brock, a single woman	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1018/39 44/254 1093/34, 48/263 1094/490	0%
		Bill Coffield and Sharon Coffield, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1019/631 44/254 1093/34, 48/263 1094/490	
		Harold A. Coffield and Donna Coffield, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1018/31 44/254 1093/34, 48/263 1094/490	
		John M. Coffield, a widow	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1020/1 44/254 1093/34, 48/263 1094/490	
		Robert W. Coffield and Mary M. Coffield, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1018/47 44/254 1093/34, 48/263 1094/490	
		Alva Ealy, a widow	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1018/35 44/254 1093/34, 48/263 1094/490	
		Emma Jane Edgell and Edward Edgell, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1019/639 44/254 1093/34, 48/263 1094/490	
		Christina Hicks, a single woman	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1021/42 44/254 1093/34, 48/263 1094/490	
		Cindy Klinger and Randy Klinger, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1019/635 44/254 1093/34, 48/263 1094/490	
		John Maxwell, a single man	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1021/46 44/254 1093/34, 48/263 1094/490	
		Robert Maxwell and Aimee Maxwell, husband and wife, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1021/30 44/254 1093/34, 48/263 1094/490	
		Shirley Ann Sayre and Roscoe Sayre, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1018/43 44/254 1093/34, 48/263 1094/490	
		Sarah Shape and Leonard Prusakowski, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1019/643 44/254 1093/34, 48/263 1094/490	
		Charlotta Wright, a widow	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1019/647 44/254 1093/34, 48/263 1094/490	
		Unknown Heirs or Assigns of Mildred Coffield	Cotenancy pursuant to West Virginia Code §37B-1-1, et seq.	at least 1/8th per WV Code §22-6-8	1276/220	

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34	15-3-28					
		Harry W. Lilley and Elnor V. Lilley, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1019/623 44/254 1093/34, 48/263 1094/490	27%
		Bernice Brock, a single woman	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1018/39 44/254 1093/34, 48/263 1094/490	
		Cathy Caldwell and Jerry W. Caldwell, wife and husband	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1021/38 44/254 1093/34, 48/263 1094/490	
		Barbara J. Cantrell and Jesse A. Cantrell, by his Attorney-In-Fact, Barbara J. Cantrell, wife and husband	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1021/286 44/254 1093/34, 48/263 1094/490	
		Bill Coffield and Sharon Coffield, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1019/631 44/254 1093/34, 48/263 1094/490	
		Harold A. Coffield and Donna Coffield, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1018/31 44/254 1093/34, 48/263 1094/490	
		John M. Coffield, a widow	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1020/1 44/254 1093/34, 48/263 1094/490	
		Robert W. Coffield and Mary M. Coffield, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1018/47 44/254 1093/34, 48/263 1094/490	
		Linda A. Confalone and Anthony E. Confalone, wife and husband	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1021/22 44/254 1093/34, 48/263 1094/490	
		Mary H. Conley, widow	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1020/32 44/254 1093/34, 48/263 1094/490	
		Sarah E. Dean, a married woman dealing in her sole and separate property	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1247/296 1094/490	
		Alva Ealy, a widow	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1018/35 44/254 1093/34, 48/263 1094/490	
		Emma Jane Edgell and Edward Edgell, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1019/639 44/254 1093/34, 48/263 1094/490	
		Harry O. Givens, Jr. and Rosemarie F. Givens, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1017/482 44/254 1093/34, 48/263 1094/490	
		James B. Givens, widower	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1017/472 44/254 1093/34, 48/263 1094/490	
		Mary Jane Thomas, widow	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1017/469 44/254 1093/34, 48/263 1094/490	
		David A. Heaton and Mananne E. Heaton, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1021/353 44/254 1093/34, 48/263 1094/490	
		Quentin L. Heaton and Dalene G. Heaton, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1021/345 44/254 1093/34, 48/263 1094/490	
		Christina Hicks, a single woman	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1021/42 44/254 1093/34, 48/263 1094/490	

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NAME	ADDRESS	INTEREST	ROYALTY	REMARKS	DATE OF ACQUISITION
Michael D. Holloway and Brenda L. Holloway, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1021/337 44/254 1093/34, 48/263 1094/490		
Barbara J. Jackson, a widow	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1020/26 44/254 1093/34, 48/263 1094/490		
Cindy Klinger and Randy Klinger, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1019/635 44/254 1093/34, 48/263 1094/490		
Connie Jo Lilley, a single woman	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1017/475 44/254 1093/34, 48/263 1094/490		
Daniel J. Lilley and Danielle D. Lilley, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1017/455 44/254 1093/34, 48/263 1094/490		
Joe Lilley, a/k/a Joey R. Lilley	Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1248/95		
Amanda MacKay, a married woman dealing in her sole and separate property	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1249/74 1094/490		
Ruth V. Mangus and Larry P. Mangus, wife and husband	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1021/54 44/254 1093/34, 48/263 1094/490		
John Maxwell, a single man	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1021/46 44/254 1093/34, 48/263 1094/490		
Robert Maxwell and Aimee Maxwell, husband and wife, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1021/30 44/254 1093/34, 48/263 1094/490		
Cathy L. Maze and Raymond D. Maze, wife and husband	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1017/451 44/254 1093/34, 48/263 1094/490		
William N. McCordie and Virginia L. McCordie, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1017/465 44/254 1093/34, 48/263 1094/490		
Anthony A. McGowan and Martha Lea Boschuk, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1021/66 44/254 1093/34, 48/263 1094/490		
David J. McGowan and Karen L. McGowan, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1033/553 44/254 1093/34, 48/263 1094/490		
Thomas O. McGowan and Kimberly A. Baker, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1017/478 44/254 1093/34, 48/263 1094/490		
Jerry Jay Miller, Jr., a married man dealing in his sole and separate property	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1253/496 1094/490		
John T. Miller and Sally J. Miller, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1019/615 44/254 1093/34, 48/263 1094/490		
Arty James Conley, single	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1020/29 44/254 1093/34, 48/263 1094/490		
Mountain View Minerals, LLC	Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1250/425		
APP Minerals LLC	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1091/459 44/254 1093/34, 48/263 1094/490		

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		Judith A. Roach and Bruce R. Roach, wife and husband	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1021/34 44/254 1093/34, 48/263 1094/490	
		Nancy L. Saggio and John P. Saggio, wife and husband	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1021/26 44/254 1093/34, 48/263 1094/490	
		Shirley Ann Sayre and Roscoe Sayre, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1018/43 44/254 1093/34, 48/263 1094/490	
		Barbara J. Seibert and Randall L. Seibert, wife and husband	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1019/619 44/254 1093/34, 48/263 1094/490	
		Sarah Shape and Leonard Prusakowski, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1019/643 44/254 1093/34, 48/263 1094/490	
		Carl K. Lilley, a widower	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1017/459 44/254 1093/34, 48/263 1094/490	
		Russell E. Lilley and Shirley A. Lilley, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1019/627 44/254 1093/34, 48/263 1094/490	
		Terry A. Vacheresse, a widower	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1017/462 44/254 1093/34, 48/263 1094/490	
		George E. Vacheresse, Jr. and Susann M. Vacheresse, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1021/62 44/254 1093/34, 48/263 1094/490	
		Gerry C. Ward, Sr. and Cheryl M. Ward, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1021/58 44/254 1093/34, 48/263 1094/490	
		Charlotta Wright, a widow	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1019/647 44/254 1093/34, 48/263 1094/490	
		Unleased owner (s) subject to unitization filing	N/A	N/A	N/A	
35	15-6-1	Jane Breakall Elliott and Kendall C. Elliott, II, wife and husband	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1018/55 44/254 1093/34, 48/263 1094/490	0%
		Karen A. Joseph, a married woman dealing in her sole and separate property, Life Estate	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1014/100 44/254 1093/34, 48/263 1094/490	
		Leslie Kaye Harclerode, a married woman, dealing in her sole and separate property, (Remainderman)	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1014/108 44/254 1093/34, 48/263 1094/490	
		Lisa Ann Jackson, a married woman dealing in her sole and separate property, (Remainderman)	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1018/59 44/254 1093/34, 48/263 1094/490	
		Paul D. Lautar and Judy B. Lautar, husband and wife	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1010/547 44/254 1093/34, 48/263 1094/490	
		Ellen G. Miller and Richard R. Miller, wife and husband	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1014/96 44/254 1093/34, 48/263 1094/490	
		Ann B. Montgomery, a married woman dealing in her sole and separate property	Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1263/245	
		Janet G. Murray, a single woman	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1014/104 44/254 1093/34, 48/263 1094/490	

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		Susan Gall Smith, a married woman dealing in her sole and separate property	Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1263/251	
		Leslie Gall Underdonk and Charles Allen Underdonk, wife and husband	American Petroleum Partners Operating, LLC High Road Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1014/112 44/254 1093/34, 48/263 1094/490	
36	15-6-2	Mark Brent Fitzsimmons, married, dealing in his sole and separate property	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1192/351 1094/490	*50%
		Gary W. Strope and Rickee J. Strope, Trustees of the Strope Family Trust dated March 29, 2017	TH Exploration, LLC EQT TGH Exploration, LLC et al *See Letter Agreement Attached for remaining 50%	at least 1/8th per WV Code §22-6-8	1136/209 2/463, 2/472	
37	15-6-9	Mark Brent Fitzsimmons, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC *See Letter Agreement with EQT for remaining 50%	at least 1/8th per WV Code §22-6-8	690/383 33/110 1094/490	*50%
		Rickee Jo Strope, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC *See Letter Agreement with EQT for remaining 50%	at least 1/8th per WV Code §22-6-8	690/380 33/110 1094/490	
38	15-6-8	Michael J. Burkey and Linda V. Burkey, husband and wife	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1192/182	0%
39	15-6-12	Wendy Maxim and Corey Maxim, her husband	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	736/500 33/110 1094/490	0%
		Timothy G. Riley and Judy W. Riley, his wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	730/81 33/110 1094/490	
		Rose L. Riley, a widow	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	730/65 33/110 1094/490	
		Robert J. Riley, III and Tammy J. Riley, his wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	730/76 33/110 1094/490	
		Vicki F. Riley, a widow	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	730/70 33/110 1094/490	
		Brent M. Ruffner, a single man	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	736/510 33/110 1094/490	
		James B. Riley, Jr. and Catalina E. Riley, his wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	736/515 33/110 1094/490	
		Frederick W. Dague, a married man dealing in his sole and separate property	Chevron U.S.A. Inc. EQT Aurora LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1027/390 47/1 53/349 1094/490	
		Harriet C. Riggie, a/k/a Harriet C. Dauge Riggie, a married woman dealing in her sole and separate property	Chevron U.S.A. Inc. EQT Aurora LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1027/393 47/1 53/349 1094/490	
		Ellen W. Riley and Mark D. Flower, her husband	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	734/370 33/110 1094/490	
		David B. Riley and Kelly R. Riley, his wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	730/86 33/110 1094/490	
		Wendy Rosian, Guardian and Mother of Daniel D. Rufner, for and on behalf of Daniel D. Rufner, a minor child	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	782/403 33/110 1094/490	
40	15-6-13	Wendy Maxim and Corey Maxim, her husband	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	736/500 33/110 1094/490	0%
		Timothy G. Riley and Judy W. Riley, his wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	730/81 33/110 1094/490	
		Rose L. Riley, a widow	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	730/65 33/110 1094/490	

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		Robert J. Riley, III and Tammy J. Riley, his wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	730/76 33/110 1094/490	
		Vicki F. Riley, a widow	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	730/70 33/110 1094/490	
		Brent M. Ruffner, a single man	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	736/510 33/110 1094/490	
		James B. Riley, Jr. and Catalina E. Riley, his wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	736/515 33/110 1094/490	
		Frederick W. Dague, a married man dealing in his sole and separate property	Chevron U.S.A. Inc. EQT Aurora LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1027/390 47/1 53/349 1094/490	
		Harriet C. Riggle, a/k/a Harriet C. Dauge Riggle, a married woman dealing in her sole and separate property	Chevron U.S.A. Inc. EQT Aurora LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1027/393 47/1 53/349 1094/490	
		Ellen W. Riley and Mark D. Flower, her husband	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	734/370 33/110 1094/490	
		David B. Riley and Kelly R. Riley, his wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	730/86 33/110 1094/490	
		Wendy Rosian, Guardian and Mother of Daniel D. Rufner, for and on behalf of Daniel D. Rufner, a minor child	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	782/403 33/110 1094/490	
41	15-6-15	Mark B. Fitzsimmons and Deborah A. Fitzsimmons, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	690/320 33/110 1094/490	0%
42	15-6-17	Mark B. Fitzsimmons and Deborah A. Fitzsimmons, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	690/320 33/110 1094/490	0%
		Mary Jane Thomas	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1034/173 1094/490	
		Virgil Leroy Lilley	CNX Gas Company LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	696/272 46/123 1094/490	
		James Earl Lilley	CNX Gas Company LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	696/258 46/123 1094/490	
		Harry W. Lilley	CNX Gas Company LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	696/250 46/123 1094/490	
		Carl K. Lilley	CNX Gas Company LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	696/276 46/123 1094/490	
		Russell Eugene Lilley	CNX Gas Company LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	696/264 46/123 1094/490	
*Co-tenancy utilization - At least 75% of the royalty owners have consented to the lawful use or development of the oil or natural gas mineral property on the tract. The interests of the remaining co-						
*Horizontal well unit utilization - Subject to unitization filing with the West Virginia Oil and Gas Conservation Commission.						
*Potentially Impacted Parcels - Parcels that may be impacted during drilling.						

End of Exhibit "A"

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Execution Version

February 25, 2026

Antero Resources Corporation
1615 Wynkoop St.
Denver, CO 80202

Via Email: jhurst@anteroresources.com;

RE: Drill Letter – Marshall County, WV

Dear Mr. Hurst:

1. Per our discussions, Expand Appalachia LLC, a Oklahoma limited liability company ("**Expand**") and Antero Resources Corporation ("**ARC**") (ARC and Expand may be referred to individually as a "**Party**" and collectively as the "**Parties**"), are in the process of negotiating an acreage trade agreement (the "**Trade Agreement**") for the exchange, assignment and/or granting of certain oil and gas leases in Doddridge, Harrison, Tyler, Marshall, Lewis, Ritchie, and Wetzel Counties, West Virginia (the "**Proposed Transaction**"), to facilitate each of their respective drilling and development needs.

2. As currently contemplated by the Parties, pursuant to the Trade Agreement, ARC will assign to Expand certain oil and gas leases in exchange for Expand assigning and/or granting to ARC certain oil and gas leases.

3. Among the ARC oil and gas leases contemplated to be included in the Proposed Transaction are the oil and gas leases or portions thereof described on **Exhibit A** attached hereto, comprising approximately 277 NRI Acres (the "**Drilling Leases**"). As used in this letter agreement, "**NRI Acres**" shall have the definition set forth on **Schedule 1**.

4. The Parties desire to accommodate Expand's drilling and development of certain Expand units in advance of the execution of the Trade Agreement. Therefore, ARC hereby grants to Expand and/or its designated affiliates the right to drill, complete, produce, and obtain all necessary permits and governmental approvals, in order to drill, complete and produce one (1) or more wellbore laterals ("**Wells**") through and in the Marcellus Formation of the lands covered by the Drilling Leases; *provided, however*, that ARC hereby expressly withholds to itself and its successors and assigns and does not grant to Expand (a) the right to complete in any formation covered by the Drilling Leases other than the Marcellus Formation (*provided that Expand may drill through such formations*) or (b) the right to access the surface of or to conduct surface operations on the lands covered by the Drilling Leases unless Expand enters into a separate agreement with the surface owner(s). As used in this letter agreement, "**Marcellus Formation**" shall have the definition set forth on **Schedule 1**.

5. Expand hereby agrees to indemnify, defend and hold harmless ARC and its affiliates, equity holders, subsidiaries or related companies (the "**Indemnified Parties**") for, from and against any and all Claims (as defined below) sustained by the Indemnified Parties resulting from or in connection with Expand's and/or its designated affiliates' activities with respect to the Drilling Leases, including, without limitation, the drilling of the Wells and Expand's development and operation of the Drilling Leases, that arise on or after the date of this letter agreement but before the date on which Expand acquires any of the

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Drilling Leases. Notwithstanding the foregoing sentence, if the Parties close the transactions contemplated by the Trade Agreement with respect to any Drilling Lease, any Claims arising from or relating to the period of time prior to such closing shall remain subject to this letter agreement, and any Claims arising on or after such closing may be subject to the terms and conditions of the executed Trade Agreement. As used in this letter agreement, "**Claims**" shall mean any and all losses, suits, proceedings, actions, causes of action, in law or at equity, demands, penalties, fines, fees, charges, assessments, liabilities (including environmental liabilities), damages (including environmental and natural resources damages), claims, judgments, executions, costs and expenses of any kind (including, without limitation, attorney's fees, expert's fees, court costs and other out-of-pocket fees and disbursements), fines, taxes, and interest, whether existing or incurred or asserted in the future, in connection with (a) any such claim or the defense thereof, (b) amounts paid in settlement, orders, liens, or decrees, or (c) any injury or damage of any kind and nature to persons (including sickness, illness and death), mines, wells, or property claims or to the Drilling Lease, or natural resources, and with respect to any of the foregoing, whether sustained or brought by or against ARC or any third party. Notwithstanding any of the foregoing, Expand shall have no obligation to indemnify the Indemnified Parties for any Claim to the extent arising out of an Indemnified Party's gross negligence or willful misconduct. The indemnity obligation set forth in this section shall survive (a) any execution of a Trade Agreement or assignment of the Drilling Leases or other mutually agreed transaction pursuant to which Expand acquired any of the Drilling Leases, or (b) any termination of all or any part of this letter agreement; *provided*, that if Expand unitizes all or any portion of the Drilling Leases, then this paragraph shall terminate and be of no further force and effect (with the terms and conditions of the JOA (as defined below) to govern the respective liability of the parties thereunder).



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7. If any assignment of the acreage is made, such properties shall be assigned and/or granted, as the case may be, free and clear of (a) all gathering or midstream dedications or commitments, and (b) all other senior mortgages, liens and encumbrances for which pre-closing waivers, releases or subordinations are customarily sought in transactions similar to the Proposed Transaction.

8. If any assignment of the acreage is made, the assigning or leasing Party shall make available to the other Party, electronically on a digital file-sharing service, electronic copies of its lease and payment files pertaining to such acreage (the "**Records**").

9. The Parties acknowledge and agree that the rights, obligations, and covenants set forth herein are independent of, and not contingent upon, the negotiation, execution, or performance of any acreage trade agreement or similar transaction between the Parties. Nothing in this letter agreement shall require the Parties to execute the Trade Agreement; *provided, however*, that in the event the Parties do not execute the Trade Agreement, the Parties' respective obligations under Sections 4 through 10 hereof shall be fully enforceable.

10. Except as otherwise provided herein, nothing in this letter agreement will diminish any current or future rights of ARC in the Drilling Leases or other properties. This letter agreement and the rights and obligations of ARC and Expand hereunder will terminate (on a Drilling Lease-by-Drilling Lease basis) upon the earliest of (a) if and when Expand and ARC consummate the closing, as applicable, as contemplated the Trade Agreement with respect to such Drilling Lease and (b) December 31, 2026 (the "**Expiration Date**").

[Signature page follows]

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If the above meets your approval, please execute in the space provided below and return one signed copy to my attention. Should you have any questions, please contact Andrew Smith at (346) 443-6432.

Sincerely,

EXPAND APPALACHIA LLC

**BY EXPAND ENERGY CORPORATION,
ITS SOLE MANAGER**



Name: Paul M. Bacho
Title: Sr. Manager - Land

AMS
GW

Acknowledged, accepted and agreed to on FEBRUARY 25TH, 2026.

ANTERO RESOURCES CORPORATION



Name: Jared Hurst
Title: Vice President - Land

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Signature Page to Drill Letter



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Schedule 1**Definitions**

"Marcellus Formation" means the stratigraphic equivalent of those depths and formations underlying such leases (or portions of leases) from 500' above the top of the Tully formation, as seen at 6943' MD in the log for the BIG57H1 well located in Wetzel County, West Virginia (API No. 4710302414) down to 200' below the top of the Onondaga formation, as seen in the log of such well at a depth of 7117' MD.

"Net Revenue Interest" means, with respect to the Marcellus Formation of each Drilling Lease, the interest in and to all hydrocarbons produced and sold from the Marcellus Formation of such Drilling Lease, after giving effect to all royalties, overriding royalties, production payments, carried interests, net profits interests, reversionary interests and other similar burdens upon, measured by or payable out of production therefrom.

"Net Working Interest Acreage" means, computed separately with respect to each Drilling Lease and with respect to the Marcellus Formation, (i) the number of gross mineral acres in the lands included in or encumbered by such Drilling Lease, multiplied by (ii) the percent interest of oil, gas and associated hydrocarbons in such Drilling Lease owned by the lessor upon its execution, multiplied by (iii) the assigning Party's Working Interest in the Drilling Lease as to the Marcellus Formation; **provided**, that if the Working Interest varies as to different areas within any tracts or parcels burdened by such Drilling Lease, a separate calculation shall be done for each area.

"NRI Acres" means, as computed separately with respect to each Drilling Lease, the (i) Net Working Interest Acreage, multiplied by (ii) the Party's Net Revenue Interest.

"Working Interest" means with respect to any Drilling Lease, the percentage of costs and expenses associated with the operating rights and the exclusive right to exploit hydrocarbons from the Drilling Lease required to be borne with respect thereto, but, for clarity, without regard to the effect of any royalties, overriding royalties, production payments, carried interests, net profits interests, reversionary interests and other similar burdens upon, measured by or payable out of production therefrom.

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Exhibit A
Drilling Leases

Tract	Tract Description	NEP	Grant Year	Grant Acres	Subsequent	State	County	B. E. P. No.	Pay. 1 Assignment	Grant Number	Tract Description	
John T. Lynskey, a single man	Tri Energy Holdings, LLC	11/26/2010		7.61200	4.87800		WV	Marshall	720/502	Yes	12-0003-0010-0000	All lands not described as the tract(s) conveyed
Robert G. McVicker Jr. and Patricia L. McVicker, husband and wife	Noble Energy, Inc.	11/26/2014		87.25800	39.86800		WV	Marshall	850/290	Yes	12-0003-0011-0000	All lands not described as the tract(s) conveyed
C.W. Dague and Ora M. Dague, his wife	The Manufacturers Light & Heat Co	9/12/1950		14.84000	7.69100		WV	Marshall	272/44	Yes	12-0007-0010-0002	All lands not described as the tract(s) conveyed
Luke L. Morinar and Clara Morinar, his wife; LeMoine R. Morinar and Helen C. Morinar, his wife	The Manufacturers Light and Heat Company	10/29/1960		5.42000	5.42000		WV	Marshall	342/180	No	12-0007-0014-0000	All lands not described as the tract(s) conveyed
Robert J. Freidhof and Robin L. Freidhof, his wife	Tri Energy Holdings, LLC	9/23/2010		54.99000	37.32700		WV	Marshall	717/394	Yes	12-0007-0016-0000	All lands not described as the tract(s) conveyed
Garry L. Hillberry and Denise I. Hillberry, husband and wife	Noble Energy, Inc.	10/13/2014		56.19000	16.31500		WV	Marshall	851/403	Yes	12-0007-0018-0000	All lands not described as the tract(s) conveyed
Jewell L. Roman	CNX Gas Company, LLC	6/22/2011		86.43100	31.42446		WV	Marshall	699/527	Yes	12-0010-0001-0002	All lands not described as the tract(s) conveyed
Benton Hazlett and Olive Hazlett, husband and wife	The Manufacturers Light and Heat Company	2/5/1950		1.11160	1.11160		WV	Marshall	342/19	No	12-0011-0014-0001	All lands not described as the tract(s) conveyed
Luke L. Morinar and Clara Morinar, his wife; LeMoine R. Morinar and Helen C. Morinar, his wife	The Manufacturers Light and Heat Company	10/29/1960		132.02000	88.00000		WV	Marshall	342/180	Yes	12-0012-0002-0000	All lands not described as the tract(s) conveyed
Ethel Woodruff, widow	The Manufacturers Light and Heat Company	10/14/1960		176.58120	72.88620		WV	Marshall	342/299	Yes	12-0012-0003-0000	All lands not described as the tract(s) conveyed
Maude Dague, widow, Daniel Dague and Maria Dague, his wife, Olive Whipkey and Andy Whipkey, her husband, C.R. Dague and Jean R. Dague, his wife, Harry C. Dague, single, Isabel D. David and Charles C. Davis, her husband, George Dague and Martha V. Dague, his wife, Mabel Burley and Alfred Burley, her husband	The Manufacturers Light and Heat Company	4/9/1950		62.67000	1.57600		WV	Marshall	342/197	Yes	12-0012-0007-0003	All lands not described as the tract(s) conveyed
Maude Dague, widow, Daniel Dague and Maria Dague, his wife, Olive Whipkey and Andy Whipkey, her husband, C.R. Dague and Jean R. Dague, his wife, Harry C. Dague, single, Isabel D. David and Charles C. Davis, her husband, George Dague and Martha V. Dague, his wife, Mabel Burley and Alfred Burley, her husband	The Manufacturers Light and Heat Company	4/9/1950		8.76000	0.24100		WV	Marshall	342/197	Yes	12-0012-0007-0003	All lands not described as the tract(s) conveyed

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Exhibit A
Drilling Leases

Leaseholder	Operator	Lease Date	SR#	Lease Acres	Lease Acres	Lease Acres	Lease Acres	County	Book	Page	Lease Status	Lease Term	Lease Notes
Maude Dague, widow, Daniel Dague and Marla Dague, his wife, Olive Whipkey and Andy Whipkey, her husband, C.R. Dague and Jean R. Dague, his wife, Harry C. Dague, single, Isabel D. David and Charles C. Davis, her husband, George Dague and Martha V. Dague, his wife, Mabel Burley and Alfred Burley, her husband	The Manufacturers Light and Heat Company	4/9/1960		20.0000	2.0000			WV	Marshall	342/197	Yes	12-0012-0000-0000	All lands not described as the tract(s) conveyed
Maude Dague, widow, Daniel Dague and Marla Dague, his wife, Olive Whipkey and Andy Whipkey, her husband, C.R. Dague and Jean R. Dague, his wife, Harry C. Dague, single, Isabel D. David and Charles C. Davis, her husband, George Dague and Martha V. Dague, his wife, Mabel Burley and Alfred Burley, her husband	The Manufacturers Light and Heat Company	4/9/1960		42.89900	14.81200			WV	Marshall	342/197	Yes	12-0012-0000-0000	All lands not described as the tract(s) conveyed
Anna Wilson and Luther Wilson, her husband; Harry Toland, single; William R. Toland and Pearl Toland, his wife; Arthur S. Toland and Dorothy Toland, his wife; Elizabeth Riggle and Orville Riggle, her husband; James E. Toland, single; Myrtle Gray and Presley Gray, her husband; Zelma Gray and Harry Gray, her husband; Herbert L. Toland and Dortha Toland, his wife	The Manufacturers Light and Heat Company	9/12/1960		24.11000	24.11000			WV	Marshall	342/173	No	12-0012-0009-0000	All lands not described as the tract(s) conveyed
George N. Jenkins and Isabell Jenkins, his wife	The Manufacturers Light & Heat Co.	9/13/1960		30.55000	0.84000			WV	Marshall	342/169	Yes	12-0012-0010-0000	All lands not described as the tract(s) conveyed

(End of Exhibit A)

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EXHIBIT B

Form of Imbalance Agreement

This Imbalance Agreement (this "Imbalance Agreement"), dated [____], 2026 (the "Execution Date"), is by and between Antero Resources Corporation, a Delaware corporation ("Antero"), and Expand Appalachia LLC, a Oklahoma limited liability company ("Expand"). Each of Antero and Expand is a "Party" and together are the "Parties". For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties agree as follows:

1. Permission Letter. Antero and Expand are parties to the letter agreement, dated [____], 2026 (as amended from time to time, the "Permission Letter"). Capitalized terms used but not defined in this Imbalance Agreement have the meanings given to them in the Permission Letter. This Imbalance Agreement is being delivered pursuant to Antero's election to non-consent to the drilling of a Well governed by a JOA.

2. JOA Imbalance. Pursuant to that certain JOA and at the execution of this Imbalance Agreement, Antero assigned or leased, as applicable, [____] NRI Acres of O&G Interests to Expand, resulting in an acreage imbalance as of the date hereof of [____] NRI Acres owed by Expand to Antero (the "JOA Imbalance").

3. Reconciliation.

(a) The Parties agree that the JOA Imbalance shall be carried forward to be reconciled and satisfied in a future trade or other transaction between the Parties or their respective Affiliates wherein the Parties shall endeavor to mutually agree on oil and gas leases (or portions thereof) or fee mineral interests (or portions thereof) to be assigned or leased, as applicable, between the Parties.

(b) To the extent the JOA Imbalance is not reconciled and satisfied in full within twelve (12) months from the Execution Date, Expand shall deliver to Antero a reconciliation statement (the "Reconciliation Statement") setting forth (x) the JOA Imbalance (also reflective of any adjustments under this Section 3), and (y) setting forth a reasonably detailed calculation of the Final Payment in accordance with this Section 3(b).

(i) If the adjusted JOA Imbalance is owed to Expand, then Antero shall owe to Expand [____] per NRI Acre of such JOA Imbalance;

(ii) If the adjusted JOA Imbalance is owed to Antero, then Expand shall owe to Antero [____] per NRI Acre of such JOA Imbalance;

Based upon the amounts set forth in clauses (i) and (ii) above, Expand shall calculate and set forth on the Reconciliation Statement the net amount owed and the Party to whom such amount is owed. Such amount shall be the "Final Payment". The Party obligated to pay such amount is the "Shortfall Party", and the Party entitled to receive such amount is the "Overage Party". Within five (5) Business Days following Antero's receipt of the Reconciliation Statement, the Shortfall Party shall pay the Final Payment to the Overage Party to the account designated in writing by such Overage Party by wire transfer of immediately available funds.

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4. Assignment. This Imbalance Agreement shall be binding upon and shall inure to the benefit of the Parties and their respective permitted successors and assigns. Notwithstanding the preceding sentence, neither of the Parties shall assign this Imbalance Agreement or be released from their rights or obligations hereunder without the other Party's prior written consent, with any assignment or delegation without such consent being void *ab initio*.

5. Entire Agreement. This Imbalance Agreement, together with the Permission Letter and JOA, constitutes the entire understanding of the Parties with respect to the subject matter hereof and thereof, superseding all related negotiations, prior discussions and prior agreements and understandings with respect to the subject matter hereof.

6. Severability. If a court of competent jurisdiction determines that any clause or provision of this Imbalance Agreement is void, illegal, or unenforceable, the other clauses and provisions of this Imbalance Agreement shall remain in full force and effect to the extent permitted by law and if commercially reasonable and consistent with the original intent of the Parties.

7. Advice of Counsel. The Parties acknowledge and represent that they have carefully read and know the contents of this Imbalance Agreement, fully understand its terms, have had the opportunity to consult legal counsel prior to signing this Imbalance Agreement, have been given a reasonable amount of time to enter this Imbalance Agreement, and enter into it voluntarily.

8. Governing Law.

- (a) This Imbalance Agreement shall be governed by, construed, interpreted and applied in accordance with the laws of the State of Texas, excluding any choice of law rules which would refer the matter to the laws of another jurisdiction.
- (b) The Parties agree that the appropriate, exclusive and convenient forum for any disputes between the Parties arising out of this Imbalance Agreement, the agreements and certificates delivered pursuant hereto and the transactions contemplated hereby or thereby shall be in any state or federal court in Houston, Texas and each of the Parties irrevocably submits to the jurisdiction of such courts solely in respect of any proceeding arising out of or related to this Imbalance Agreement. The Parties further agree that the Parties shall not bring suit with respect to any disputes arising out of this Imbalance Agreement, any agreement or certificate delivered pursuant hereto or the transactions contemplated hereby or thereby in any court or jurisdiction other than the above specified courts. The Parties further agree, to the extent permitted by law, that a final and nonappealable judgment against a Party in any action or proceeding contemplated above shall be conclusive and may be enforced in any other jurisdiction within or outside the United States by suit on the judgment, a certified or exemplified copy of which shall be conclusive evidence of the fact and amount of such judgment.
- (c) THE PARTIES HERETO AGREE THAT THEY HEREBY KNOWINGLY, VOLUNTARILY AND INTENTIONALLY IRREVOCABLY WAIVE THE RIGHT TO TRIAL BY JURY IN ANY ACTION BASED HEREON, OR ARISING OUT OF, UNDER OR IN CONNECTION WITH THIS IMBALANCE AGREEMENT, ANY AGREEMENT OR CERTIFICATE DELIVERED PURSUANT HERETO OR THE TRANSACTIONS CONTEMPLATED HEREBY OR THEREBY.

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9. Notices.

- (a) Any notice given hereunder shall be deemed to have been duly made and the receiving Party charged with notice (i) if personally delivered, when delivered, (ii) if mailed (which shall be certified mail, return receipt requested), when received or (iii) if sent by overnight courier, one day after sending. All notices shall be addressed as follows:

ANTERO:

Antero Resources Corporation
 Attn: Jared Hurst
 1615 Wynkoop Street
 Denver, Colorado 80202

With copies to:

Antero Resources Corporation
 Attn: General Counsel
 1615 Wynkoop Street
 Denver, Colorado 80202

and

Expand:

[]
 Attn: []
 []
 []

With a copy to:

[]
 Attn: []
 []
 []

- (b) Each Party may change its address at any time and from time to time by giving written notice to the other Party.

10. Further Assurances. From and after the Execution Date, at the request of a Party, the other Party shall without additional consideration execute and deliver or use reasonable efforts to cause to be executed and delivered such other instruments of conveyance and take such other actions as the requesting Party reasonably may request to otherwise accomplish the transactions contemplated by this Imbalance Agreement.

11. Counterpart Execution. This Imbalance Agreement may be executed in a number of counterparts, each of which shall be considered an original for all purposes, but shall not be binding until fully executed by all Parties. Execution of this Imbalance Agreement by an electronic form of signature (including .PDFs) that is an exact copy of the original signature shall be deemed to be, and shall have the same effect as, execution by original signature.

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[Signature pages follow.]

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IN WITNESS WHEREOF, the duly authorized representatives of the Parties have caused this Imbalance Agreement to be executed as of the Execution Date.

ANTERO RESOURCES CORPORATION

By:

Name: Jared Hurst

Title: Vice President - Land

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Signature Page to Imbalance Agreement

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EXPAND APPALACHIA LLC
BY: EXPAND ENERGY CORPORATION, ITS SOLE MANAGER

By: _____
Name: _____
Title: _____

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EQT Production Company
EQT CHAP LLC
EQT Aurora LLC
EQT TGH Exploration LLC
EQT TGH Exploration II LLC
EQT TGH Exploration III LLC
2200 Energy Drive
Canonsburg, PA 15317
Attn: Greg Godbey

Re: Leasehold Commitment Agreement
Proposed Betty Schafer South A, B, C, D, and E Unit
Proposed Michael Southworth Southeast D and E Unit
Marshall County, West Virginia

Dear Greg:

This letter (this "**Leasehold Commitment Agreement**") shall serve as a formal agreement between Expand Appalachia LLC, an Oklahoma limited liability company, a subsidiary of Expand Energy Corporation, sole manager, with an address of 10000 Energy Drive, Spring, Texas 77389 ("EXE"), Equinor USA Onshore Properties Inc., a Delaware corporation, whose address is 2107 City West Blvd, Houston, Texas 77042 ("EQNR") (EXE and EQNR are collectively referred to as "EXE/EQNR") and EQT Production Company, a Pennsylvania Limited Liability Corporation ("EPC"), whose address is 2200 Energy Drive, Canonsburg, Pennsylvania 15317 and EQT CHAP LLC, a Delaware limited liability company ("CHAP"), whose address is 2200 Energy Drive, Canonsburg, Pennsylvania 15317, and EQT Aurora LLC, a Delaware limited liability company ("Aurora"), whose address is 2200 Energy Drive, Canonsburg, Pennsylvania 15317, and EQT TGH Exploration LLC, a Texas limited liability company ("TGH"), whose address is 2200 Energy Drive, Canonsburg, Pennsylvania 15317, and EQT TGH Exploration II LLC, a Texas limited liability company ("TGH II"), whose address is 2200 Energy Drive, Canonsburg, Pennsylvania 15317, and EQT TGH Exploration III LLC, a Texas limited liability company ("TGH III"), whose address is 2200 Energy Drive, Canonsburg, Pennsylvania 15317 (EPC, CHAP, TGH, TGH II, TGH III, and Aurora are collectively referred to as "EQT") regarding certain tracts of land and leases in Marshall County, West Virginia, as described in the attached Exhibit "A", wherein EQT may own a leasehold or fee interest in the oil and gas rights (the "**Subject Tracts**"). Intending to be legally bound hereby, the parties agree as follows:

EXE/EQNR and EQT are currently negotiating an acreage trade with respect to certain tracts in Marshall and Wetzel County, West Virginia, covering the leasehold and fee interests owned by each company, and it has come to EXE/EQNR's attention that the Subject Tracts, which EQT and EXE/EQNR agree shall be included in said acreage trade, are located within EXE/EQNR's Betty Schafer South A, B, C, D, and E Unit and Michael Southworth Southeast D and E Unit (the "**Unit**"). EXE/EQNR plans to drill a well (the "**Well**") in this Unit and the wellbore lateral for such Well may reach the Subject Tract prior to EXE/EQNR and EQT finalizing the aforementioned trade agreement. EXE/EQNR intends to drill the Well to the Marcellus Formation. As used herein, "**Marcellus Formation**" means all depths and formations from 500' above the top of the Tully formation as seen at 6943' MD in the log for the BIG57H1 well located in Wetzel County, WV (API# 4710302414) down to 200' below the top of the Onondaga formation as seen in the aforementioned well log at a depth of 7117' MD.

Subject to the terms and conditions of this Leasehold Commitment Agreement, EQT consents to and grants EXE/EQNR all of EQT's rights to make regulatory permit applications and, upon receipt of all necessary permits and governmental approvals, to proceed to develop such Oil and Gas Leases and Fee Interests and extract, produce and market the Hydrocarbons therefrom.

As noted above, EXE/EQNR and EQT are in the process of negotiating a mutually agreeable trade agreement, which shall include the Subject Tracts (the "**Trade Agreement**"). As used herein, the term "**Trade Deadline**" means the date that is 180 days following the date of this Leasehold Commitment Agreement. Within ten days following the earliest to occur (on a Subject Tract-by-Subject Tract basis) of the following (as applicable, the "**Termination Date**"): (a) the Trade Deadline, if by the Trade Deadline EQT and EXE/EQNR have not executed and delivered to one another a mutually acceptable and definitive Trade Agreement that includes such Subject Tracts; (b) the date that a Subject Tract is fully and finally excluded from the assignment or lease to occur pursuant to the Trade Agreement; or (c) the date that the Trade Agreement is terminated in accordance with its express terms, the following items in either clause (1) or (2) below shall occur pursuant to the written election of EQT (the "**Electing Party**") to EXE/EQNR. For clarity, those Subject Tracts that have not been committed to a Trade Agreement or assigned or leased to EXE/EQNR pursuant to a Trade Agreement on or before the applicable Termination Date are, collectively, the "**EQT Remaining Tracts**".

- (1) Electing Party and EXE/EQNR shall execute, acknowledge, and deliver to one another (i) an assignment, bill of sale, and conveyance pursuant to which Electing Party will assign to EXE/EQNR all of Electing Party's right, title, and interest in and to the EQT Remaining Tracts to which it owns leasehold, limited to the Marcellus Formation, and or (ii) an oil and gas lease pursuant to which Electing Party will lease to EXE/EQNR all of Electing Party's right, title, and interest in and to the EQT Remaining Tracts to which it owns fee interests, limited to the Marcellus Formation; and

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EXE/EQNR shall pay to EQT, by wire transfer of immediately available funds to an account designated in writing by EQT, an amount equal to (y) the sum of the net acres for the EQT Remaining Tracts which shall be equal to the number set forth in Exhibit "A" under the column heading "Lease Net Acres" for each such EQT Remaining Tract, multiplied by (z) [REDACTED]

(or)

- (2) Electing Party shall retain its Leasehold interest as to the EQT Remaining Tracts and Electing Party and EXE/EQNR shall promptly execute mutually agreed upon joint operating agreements, well elections, and pooling designations for the Units as though they were parties to the agreements from the date of this Leasehold Commitment Agreement. Electing Party's working interest in the Units shall be based upon the proportion of the net acres the EQT Remaining Tracts contribute to each individual Unit. For avoidance of doubt, electing this clause (2) by Electing Party is not, in and of itself, an election to participate in any well.

EXE/EQNR shall be fully responsible for and shall release, defend, indemnify and hold EQT harmless from and against any and all losses, expenses, damages, injuries, claims or obligations and liabilities (including attorneys' fees) arising from or relating to EXE/EQNR's activities and operations under this Leasehold Commitment Agreement.

This Leasehold Commitment Agreement is governed by the laws of West Virginia. This Leasehold Commitment Agreement may be executed in counterparts, which when taken together, will form one instrument. **Neither Party shall be liable to the other Party for any special, incidental, consequential, punitive or exemplary damages related to, arising out of, or connected with this Leasehold Commitment Agreement.** This Leasehold Commitment Agreement, together with the Trade Agreement, represent the entire agreement of the Parties with respect to the subject matter hereof and supersedes all prior verbal and/or written agreements with respect to the subject matter hereof.

If the above terms and conditions of this Leasehold Commitment Agreement are acceptable to you, please indicate your approval in the space provided below and return an executed copy of this Leasehold Commitment Agreement to the attention of the undersigned.

Should you have any questions, please contact the undersigned at (346) 535-0802 or by email at gavin.nadeau@expandenergy.com.

Respectfully,

Expand Appalachia LLC



Gavin Nadeau, RPL
Sr. Staff Landman

[SIGNATURE PAGE TO FOLLOW]

EXE:
EXPAND APPALACHIA LLC
By: Expand Energy Corporation, sole manager

Derek Cutright
3466F1A736084B1
By: Derek Cutright
Its: Vice President

Initial Initial Initial Initial
YN DW GN PMB

EQNR:
EQUINOR USA ONSHORE PROPERTIES INC.

Eric Luszc
46BC709B14C94A2
By: Eric Luszc
Its: Manager - Land

Initial
DB

EQT:
EQT PRODUCTION COMPANY

CC
D89B4A04E0C646A
By: Corey C. Peck
Its: Vice President - Land

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GG LMS ME

CC
D89B4A04E0C646A
By: Corey C. Peck
Its: Vice President - Land

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By: Corey C. Peck
Its: Vice President - Land

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By: Corey C. Peck
Its: Vice President - Land

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Exhibit "A"

Attachment to and made a part of that certain Leasehold Commitment Agreement, dated March 3, 2026, by and between EXE/EQNR and EQT.

Original Lessor	Original Lessee	LB/PG	Lease Effective Date	Assigned Gross Acres	Lease Net Acres	Tract(s) Conveyed
APP Minerals LLC	American Petroleum Partners Operating, LLC	384/388	10/1/2018	3.250000		13-0014-0321-0000
Michael L. Merrin and Vicki L. Merrin, his wife, as joint tenants	American Petroleum Partners Operating, LLC	925/473	5/8/2017	2.583000		12-0008-0316-0001
Timothy R. Merrin and Angela D. Merrin, husband and wife	TH Exploration, LLC	1136/663	5/13/2022	54.656000		12-0012-0301-0003
Carolyn J. Smith and Wayne Smith, wife and husband	American Petroleum Partners Operating, LLC	946/264	9/28/2017	2.000000		12-0008-0315-0002
Lisa G. McMillan, a widow	American Petroleum Partners Operating, LLC	945/116	9/23/2017	2.000000		12-0008-0315-0002
Robert W. McMillan and Rebecca K. McMillan, husband and wife	American Petroleum Partners Operating, LLC	945/73	9/23/2017	2.000000		12-0008-0315-0002
Carolyn J. Smith and Wayne Smith, wife and husband	American Petroleum Partners Operating, LLC	946/264	9/23/2017	1.984000		12-0008-0315-0004
Lisa G. McMillan, a widow	American Petroleum Partners Operating, LLC	945/116	9/23/2017	1.984000		12-0008-0315-0004
Robert W. McMillan and Rebecca K. McMillan, husband and wife	American Petroleum Partners Operating, LLC	945/73	9/23/2017	1.984000		12-0008-0315-0004
Michael L. Merrin and Vicki L. Merrin, his wife, as joint tenants	American Petroleum Partners Operating, LLC	925/473	5/8/2017	3.090000		12-0012-0301-0001
Rickey Jo Strope, a married woman dealing in her sole and	Chesapeake Appalachia, LLC	690/380	7/15/2009	22.449520		15-0006-0009-0000
Mark Brent Fitzsimmons, a married man dealing in his sole	Chesapeake Appalachia, LLC	690/380	7/15/2009	22.449520		15-0006-0009-0000
Mark B. Fitzsimmons and Deborah A. Fitzsimmons	Chesapeake Appalachia, LLC	690/320	7/15/2009	2.380000		15-0006-0015-0000
Sri Haslam, a single woman	Chevron U.S.A. Inc.	961/64	12/3/2017	1.178000		15-0007-0023-0002
William E. Corfield and Brenda K. Corfield, husband and wife	TH Exploration, LLC	1151/343	11/10/2022	7.334439		15-0007-0028-0000
David W. Schrack, a single man	Great Lakes Energy Partners, LLC	656/37	1/17/2007	40.000000		15-0007-0030-0000
Gary W. Strope and Rickey J. Strope, Trustees of the Strope	TH Exploration, LLC	1136/209	5/5/2022	4.600000		15-0006-0002-0000
Barbara Seibert and Randy Seibert, wife and husband	TH Exploration, LLC	1147/354	8/20/2022	1.102000		15-0006-0017-0002
Ruth Mangus	TH Exploration, LLC	1148/261	8/25/2022	1.102000		15-0006-0017-0002
Linda A. Confalone and Anthony Confalone, wife and husband	TH Exploration, LLC	1149/41	8/27/2022	1.102000		15-0006-0017-0002
Connie Jo Litley, a single woman	TH Exploration, LLC	1148/76	8/15/2022	1.102000		15-0006-0017-0002
Cathy J. Caldwell, a widow	TH Exploration, LLC	1146/323	9/6/2022	1.102000		15-0006-0017-0002
Daniel J. Litley and Danielle J. Litley, husband and wife	TH Exploration, LLC	1145/78	8/11/2022	1.102000		15-0006-0017-0002
Sarah E. Dean and Andrew Dean, wife and husband	TH Exploration, LLC	1147/350	9/14/2022	1.102000		15-0006-0017-0002
Stone Hill Minerals Holdings, LLC	TH Exploration, LLC	1142/257	8/15/2022	1.102000		15-0006-0017-0002
Stone Hill Minerals Holdings, LLC	TH Exploration, LLC	1148/328	10/14/2022	1.102000		15-0006-0017-0002
Amanda L. Mackay and Tyler Mackay, wife and husband	EQT TGH Exploration, LLC	1190/165	4/26/2024	1.102000		15-0006-0017-0002
Karen S. Altabay and Steve Altabay, wife and husband	EQT TGH Exploration, LLC	1191/99	5/3/2024	1.102000		15-0006-0017-0002
Ronald E. Litley, Sr., a single man	EQT TGH Exploration, LLC	1191/96	5/9/2024	1.102000		15-0006-0017-0002
David W. Litley, Sr. and Susan Litley, husband and wife	EQT TGH Exploration, LLC	1193/350	6/12/2024	1.102000		15-0006-0017-0002
Dawn Ward, a single woman	TH Exploration, LLC	1149/43	8/27/2022	1.102000		15-0006-0017-0002
Cheryl Ward, a widow	TH Exploration, LLC	1147/356	8/15/2022	1.102000		15-0006-0017-0002

End of Exhibit "A"



Click here to enter text.

February 5, 2026

Mr. Charles Brewer
WV DEP Office of Oil & Gas
601 57th St., SE
Charleston, WV 25304

RE: Expand's proposed New Well: Betty Schafer MSH 6H in Marshall County, West Virginia, Drilling under Big Wheeling Creek Road, Caldwell Hill Road, Pine Hill Road, McCreary's Ridge Road, Lower Stull Run Road, and Irish Ridge Road.

Dear Mr. Brewer:

Expand Operating LLC ("Expand") is applying for a drilling permit for the above referenced well. The State of West Virginia has raised some concern as to Expand's right to drill under Big Wheeling Creek Road, Caldwell Hill Road, Pine Hill Road, McCreary's Ridge Road, Lower Stull Run Road, and Irish Ridge Road. Please be advised that Expand has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Thank you.

Sincerely,

Julia Wynne
Staff Landman
Expand Operating LLC

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Expand Energy Corporation

Insert street address / Insert city, state, zip
Insert office phone / m: Insert mobile phone / Insert email address

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WW-PN
(11-18-2015)

**Horizontal Natural Gas Well Work Permit
Application Notice By Publication**

Notice is hereby given:

Pursuant to West Virginia Code 22-6A-10(e) prior to filing an application for a permit for a horizontal well the applicant shall publish in the county in which the well is located or is proposed to be located a Class II legal advertisement.

Paper: Moundsville Echo

Public Notice Date: February 12, 2026 & February 19, 2026

The following applicant intends to apply for a horizontal natural well work permit which disturbs three acres or more of surface excluding pipelines, gathering lines and roads or utilizes more than two hundred ten thousand gallons of water in any thirty day period.

Applicant: Expand Operating LLC **Well Number:** Betty Schafer MSH 6H

Address: 1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508

Business Conducted: Natural gas production.

Location –

State: West Virginia

County: Marshall

District: Sand Hill

Quadrangle: Moundsville

UTM Coordinate NAD83 Northing: 4,426,799

UTM coordinate NAD83 Easting: 531,103

Watershed: Wheeling Creek

Coordinate Conversion:

To convert the coordinates above into longitude and latitude, visit: http://tagis.dep.wv.gov/convert/llutm_conus.php

Electronic notification:

To receive an email when applications have been received or issued by the Office of Oil and Gas, visit <http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx> to sign up.

Reviewing Applications:

Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE Charleston, WV 25304 (304-926-0450). Full copies or scans of the proposed permit application will cost \$15, whether mailed or obtained at DEP headquarters. Copies may be requested by calling the office or by sending an email to DEP.comments@wv.gov.

Submitting Comments:

Comments may be submitted online at <https://apps.dep.wv.gov/oog/comments/comments.cfm>, or by letter to Permit Review, Office of Oil and Gas, 601 57th Street, SE Charleston, WV 25304. Please reference the county, well number, and operator when using this option.

Regardless of format for comment submissions, they must be received no later than thirty days after the permit application is received by the Office of Oil and Gas.

For information related to horizontal drilling visit: www.dep.wv.gov/oil-and-gas/pages/default.aspx

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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE CERTIFICATION

Date of Notice Certification: 4/17/20

API No. 47- 051 -
Operator's Well No. Betty Schafer MSH 6H
Well Pad Name: Betty Schafer MSH

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>531,103.172</u>
County:	<u>051-Marshall</u>		Northing:	<u>4,426,798.750</u>
District:	<u>Sand Hill</u>	Public Road Access:		<u>Big Wheeling Creek</u>
Quadrangle:	<u>Moundsville</u>	Generally used farm name:		<u>Betty Schafer MSH</u>
Watershed:	<u>Wheeling Creek</u>			

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:

*PLEASE CHECK ALL THAT APPLY

- | | | |
|--|----|---|
| ☐ 1. NOTICE OF SEISMIC ACTIVITY | or | ☒ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED |
| ☒ 2. NOTICE OF ENTRY FOR PLAT SURVEY | or | ☐ NO PLAT SURVEY WAS CONDUCTED |
| ☒ 3. NOTICE OF INTENT TO DRILL | or | ☐ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or |
| | | ☐ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) |
| ☒ 4. NOTICE OF PLANNED OPERATION | | |
| ☒ 5. PUBLIC NOTICE | | |
| ☒ 6. NOTICE OF APPLICATION | | |

OOG OFFICE USE ONLY

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Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

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4705102580

Certification of Notice is hereby given:

THEREFORE, I Brittany Woody, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator: Expand Operating LLC

By: Brittany Woody

Its: Senior Regulatory Analyst

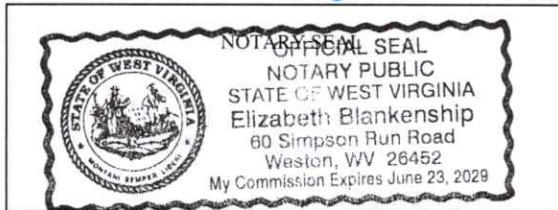
Telephone: 304-209-5688

Address: 1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508

Facsimile: 304-884-1690

Email: Brittany.Woody@expandenergy.com



Subscribed and sworn before me this 5 day of Feb 2026.

Elizabeth Blankenship Notary Public

My Commission Expires 6/23/2029

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 6/24 **Date Permit Application Filed:** 6/24
Notice of:

- ☒ PERMIT FOR ANY WELL WORK ☐ CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- ☐ PERSONAL SERVICE ☒ REGISTERED MAIL ☐ METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

☒ Application Notice ☒ WSSP Notice ☒ E&S Plan Notice ☒ Well Plat Notice is hereby provided to:

☒ SURFACE OWNER(s)

Name: Appalachia Midstream Services LLC
Address: One Williams Center
Tulsa OK 74101
Name: _____
Address: _____

☐ SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: _____
Address: _____
Name: _____
Address: _____

☐ SURFACE OWNER(s) (Impoundments or Pits)

Name: _____
Address: _____

☒ COAL OWNER OR LESSEE

Name: C/O Leatherwood Inc Attn: Casey Saunders
Address: 275 Technology Drive Suite 101
Canonsburg PA 15317

☐ COAL OPERATOR

Name: _____
Address: _____

☒ SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: See Attachment 13A
Address: _____

☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____
Address: _____

*Please attach additional forms if necessary

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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 6/22 **Date Permit Application Filed:** 6/22
Notice of:

- ☒ PERMIT FOR ANY WELL WORK ☐ CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- ☐ PERSONAL SERVICE ☒ REGISTERED MAIL ☐ METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice ☐ Well Plat Notice is hereby provided to:

☐ SURFACE OWNER(s)

Name: _____
Address: _____

Name: _____
Address: _____

☐ SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: _____
Address: _____

Name: _____
Address: _____

☐ SURFACE OWNER(s) (Impoundments or Pits)

Name: _____
Address: _____

☒ COAL OWNER OR LESSEE

Name: ACNR Attn: Steve Bair
Address: 46226 National Road
St. Clairsville OH 43950

☐ COAL OPERATOR

Name: _____
Address: _____

☐ SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: _____
Address: _____

☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____
Address: _____

*Please attach additional forms if necessary

RECEIVED
Office of Oil and Gas

JUN 23 2026

WV Department of
Environmental Protection

07/24/2026

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.
Office of Oil and Gas

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

07/24/2026

WW-6A
(8-13)

API NO. 47-051

OPERATOR WELL NO. Betty Schafer MSH 6H

Well Pad Name: Betty Schafer MSH

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

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Environmental Protection

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. **NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

07/24/2026

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site <http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

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JUN 23 2026
WV Department of
Environmental Protection

07/24/2026

WW-6A
(8-13)

4705102580
API NO. 47- 051 -
OPERATOR WELL NO. Betty Schafer MSH 6H
Well Pad Name: Betty Schafer MSH

Notice is hereby given by:

Well Operator: Expand Operating LLC

Telephone: 304-209-5688

Email: Brittany.Woody@expandenergy.com

Brittany Woody

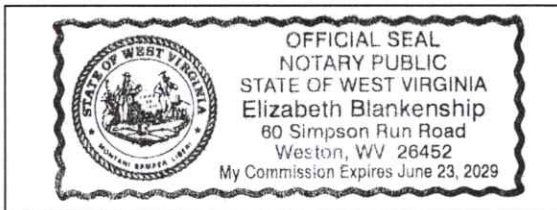
Address: 1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508

Facsimile: 304-884-1690

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



Subscribed and sworn before me this 5 day of Feb., 2026.
Elizabeth Blankenship Notary Public
My Commission Expires 6/23/2029

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Office of Oil and Gas
JUN 23 2026
WV Department of
Environmental Protection

07/24/2026

WW-6A3
(1/12)Operator Well No. Betty Schafer MSH

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Requirement: Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry

Date of Notice: 1/13/2026 **Date of Planned Entry:** 1/19/2026

Delivery method pursuant to West Virginia Code § 22-6A-10a

☐ **PERSONAL SERVICE** ☒ **REGISTERED MAIL** ☐ **METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION**

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

☒ **SURFACE OWNER(s)**

Name: Appalachia Midstream Services LLC
 Address: One Williams Center
Tulsa OK 74101

Name: _____
 Address: _____

Name: _____
 Address: _____

☐ **COAL OWNER OR LESSEE**

Name: C/O Leatherwood Inc Attn: Casey Saunders
 Address: 275 Technology Drive Suite 101
Canonsburg PA 15317

☒ **MINERAL OWNER(s)**

Name: Brenda M. Schafer
 Address: 871 Big Wheeling Creek Road
Wheeling, WV 26003

*please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: West Virginia
 County: Marshall
 District: Sand Hill
 Quadrangle: Moundsville

Approx. Latitude & Longitude: 39.990980, -80.635696
 Public Road Access: Big Wheeling Creek Road
 Watershed: Grandsstaff Run-Wheeling Creek
 Generally used farm name: Betty Schafer MSH

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

RECEIVED
Office of Oil and Gas

Notice is hereby given by:

Well Operator: Expand Operating LLC
 Telephone: 304-209-5688
 Email: Brittany.Woody@expandenergy.com

Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508

Facsimile: _____

JUN 23 2026

WV Department of
Environmental Protection

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

07/24/2026

WW-6A3
(1/12)Operator Well No. Betty Schafer MSH

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry

Date of Notice: 1/13/2026 **Date of Planned Entry:** 1/19/2026

Delivery method pursuant to West Virginia Code § 22-6A-10a

☐ PERSONAL SERVICE ☒ REGISTERED MAIL ☐ METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

☐ SURFACE OWNER(s)

Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

☐ COAL OWNER OR LESSEE

Name: _____
Address: _____

☒ MINERAL OWNER(s)

Name: Alvin Schafer
Address: 3609 Big Wheeling Creek Road
Wheeling, WV 26003

*please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: West Virginia
County: Marshall
District: Sand Hill
Quadrangle: Moundsville

Approx. Latitude & Longitude: 39.990980, -80.635696
Public Road Access: Big Wheeling Creek Road
Watershed: Grandstaff Run-Wheeling Creek
Generally used farm name: Betty Schafer MSH

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: Expand Operating LLC
Telephone: 304-209-5688
Email: Brittany.Woody@expandenergy.com

Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508

Facsimile: _____

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Office of Oil and Gas
JUN 23 2026
WV Department of
Environmental Protection

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

07/24/2026

WW-6A3
(1/12)Operator Well No. Betty Schafer MSH

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF ENTRY FOR PLAT SURVEY**

Notice Time Requirement: Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry

Date of Notice: 1/13/2026 **Date of Planned Entry:** 1/19/2026

Delivery method pursuant to West Virginia Code § 22-6A-10a

☐ PERSONAL SERVICE ☒ REGISTERED MAIL ☐ METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

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Notice is hereby provided to:

☐ SURFACE OWNER(s)

Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

☒ COAL OWNER OR LESSEE

Name: ACNR Attn: Steve Bair
Address: 46226 National Road
St. Clairsville OH 43950

☐ MINERAL OWNER(s)

Name: _____
Address: _____

*please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: West Virginia
County: Marshall
District: Sand Hill
Quadrangle: Moundsville

Approx. Latitude & Longitude: 39.990980, -80.635696
Public Road Access: Big Wheeling Creek Road
Watershed: Grandstaff Run-Wheeling Creek
Generally used farm name: Betty Schafer MSH

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: Expand Operating LLC
Telephone: 304-209-5688
Email: Brittany.Woody@expandenergy.com

Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508

Facsimile: _____

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Environmental Protection

Oil and Gas Privacy Notice:

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07/24/2026

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07/24/2026

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF PLANNED OPERATION

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 03/24/2026 **Date Permit Application Filed:** 4/1/26

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

☒ **CERTIFIED MAIL** ☐ **HAND**
RETURN RECEIPT REQUESTED **DELIVERY**

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name: Appalachia Midstream Services, LLC
Address: One Williams Center
Tulsa, OK 74172

Name: _____
Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>531,103.172</u>
County: <u>Marshall</u>		Northing: <u>4,426,798.750</u>
District: <u>Sand Hill</u>	Public Road Access: <u>Big Wheeling Creek Road</u>	
Quadrangle: <u>Moundsville, WV</u>	Generally used farm name: <u>Betty Schafer</u>	
Watershed: <u>BETTY SCHAFFER MSH 6H</u>		

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: Expand Energy Company, LLC
Telephone: (304) 209-5685
Email: steve.pauley@expandenergy.com

Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
Facsimile: _____

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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**WEST VIRGINIA
DEPARTMENT OF TRANSPORTATION**

1900 Kanawha Boulevard East • Building Five • Room 109
Charleston, West Virginia 25305-0440 • (304) 558-0444

Michael J. DeMers
Deputy Secretary of Transportation

Stephen T. Rumbaugh, P.E.
Secretary of Transportation
Commissioner of Highways

September 4, 2025

James A. Martin, Chief
Office of Oil and Gas
Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304

Subject: DOH Permit for the Betty Schafer Well Pad, Marshall County
Betty Schafer MSH 6H Well Site Betty Schafer MSH 206H Well Site
Betty Schafer MSH 406H Well Site Betty Schafer MSH 606H Well Site
Betty Schafer MSH 806H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2014-0640 which has been transferred to Expand Operating, LLC for access to the State Road for a well site located off Marshall County Route 5 SLS MP 3.71.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated March 6, 2023. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Lacy D. Pratt
Central Office O&G Coordinator

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Cc: Brittany Woody
Expand Operating, LLC
OM, D-6
File

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Attachment VI Frac Additives

Product Name	Product Use	Chemical Name	CAS Number
HCL	Solvent	Hydrochloric Acid	7647-01-0
		Water	7732-18-5
FSTI-CI-02	Corrosion Inhibitor	2-Butoxyethanol	111-76-2
		Ethylene glycol	107-21-1
		N,N-Dimethylformamide	68-12-2
		benzyl chloridequaternized	72480-70-7
		Cinnamaldehyde	104-55-2
		Isopropyl alcohol	67-63-0
		Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)- .omega.-hydroxy-	9016-45-9
		1-Decanol	112-30-1
		1-Octanol	111-87-5
Ferroplex 80	Iron Control	Triethyl phosphate	78-40-0
		Sodium Erythorbate	6381-77-7
Tolicide 4Frac	Biocide	Tetrakis(Hydroxymethyl) Phosphonium Sulfate	55566-30-8
		Quaternary ammonium compounds	68424-85-1
		Ethanol	64-17-5
		Water	7732-18-5
Plexslick 930	Friction Reducer	Hydrotreated Petroleum Distillate	64742-47-8
		Water	7732-18-5
		copolymer of 2-propenamide	69418-26-4
		Oleic Acid Diethanolamide	93-83-4
		Alcohol Ethoxylate Surfactants	68551-12-2
		Ammonium Chloride	12125-02-9
		Sodium Chloride	7647-14-5
Plexaid 655NM	Scale Inhibitor	ORGANIC PHOSPHONIC ACIDS SALTS	15827-60-8
		Water	7732-18-5
Plexslick V996	Friction Reducer	Hydrotreated Petroleum Distillate	64742-47-8
		Water	7732-18-5
		copolymer of 2-propenamide	69418-26-4
		Alcohol Ethoxylate Surfactants	68551-12-2
		Sodium Chloride	7647-14-5
Plexaid 655WG	Scale Inhibitor	ORGANIC PHOSPHONIC ACIDS SALTS	15827-60-8
		Water	7732-18-5
		Glycerin	67-56-1
Clearal 270	Biocide	Glutaraldehyde	111-30-8
		Didecyltrimethylammonium Chloride	7173-51-5
		Quaternary Ammonium compounds, Benzyl-C12-C16-alkyldimethyl, Chlorides	68424-85-1
		Ethanol	64-17-5
		Water	7732-18-5
StimSTREAM SC 398 CW	Scale Inhibitor	Ethylene glycol	107-21-1
		CHEMSTREAM-Polymer-10001	CHEMSTREAM-Polymer-10001
		CHEMSTREAM-Polymer-10002	CHEMSTREAM-Polymer-10002
		Water	7732-18-5
StimSTREAM FR 9800	Friction Reducer	Chemstream-Alkane-00001	Chemstream-Alkane-00001
		Chemstream-Polymer-00001	Chemstream-Polymer-00001
		Ethoxylated alcohols (C12-16)	68551-12-2
		Water	7732-18-5
StimSTREAM FR 2800	Friction Reducer	Distillates (petroleum), hydrotreated light	64742-47-8
		Alcohols, C11-14-iso, C13-rich, ethoxylated	78330-21-9
		Water	7732-18-5
StimSTREAM FR 9725	Friction Reducer	Distillates (petroleum), hydrotreated light	64742-47-8
		Ammonium Chloride	12125-02-9
		Water	7732-18-5
StimSTREAM SC 398 C	Scale Inhibitor	CHEMSTREAM-Polymer-10001	CHEMSTREAM-Polymer-10001
		CHEMSTREAM-Polymer-10002	CHEMSTREAM-Polymer-10002
		Water	7732-18-5

As of 7/5/2023

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OPERATOR: Expand Operating LLC

WELL NO: Betty Schafer MSH 6H

PAD NAME: Betty Schafer MSH

REVIEWED BY: _____

SIGNATURE: _____

Bethany Nady

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

Well Restrictions

****Pad Built 12/1/14**

- ☐ At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR
- ☐ DEP Waiver and Permit Conditions
- ☐ At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR
- ☐ DEP Waiver and Permit Conditions
- ☒ At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply; OR
- ☐ DEP Waiver and Permit Conditions
- ☐ At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR
- ☐ Surface Owner Waiver and Recorded with County Clerk, OR
- ☐ DEP Variance and Permit Conditions
- ☐ At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; OR
- ☐ Surface Owner Waiver and Recorded with County Clerk, OR
- ☐ DEP Variance and Permit Conditions
- ☐ At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad; OR
- ☐ Surface Owner Waiver and Recorded with County Clerk, OR
- ☐ DEP Variance and Permit Conditions

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