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 406H
47-051-02582-00-00

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.

H. Jason Harmon
Chief

Operator's Well Number:	BETTY SCHAFER MSH 406H
Farm Name:	APPALACHIAN MIDSTREAM SERVICES
U.S. WELL NUMBER:	47-051-02582-00-00
Horizontal 6A	New Drill
Date Issued:	7/24/2026

07/24/2026

API Number: **47-051-02582**

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

WW-6B
(04/15)

API NO. 47- 051 - 4705102582
OPERATOR WELL NO. Betty Schafer MSH 406H
Well Pad Name: Betty Schafer MSH

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

1) Well Operator: Expand Operating LLC | 494533012 (Operator ID) | 051-Marshal (County) | 6-Sand H (District) | 486-Moundsville (Quadrangle)

2) Operator's Well Number: Betty Schafer MSH 406H 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 x Oil _____ Underground Storage _____
Other _____
(b)If Gas Shallow x Deep _____
Horizontal x

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- 5967', Target Base TVD- 6019', Anticipated Thickness- 52', Associated Pressure- 3899

8) Proposed Total Vertical Depth: 6,238'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 33,449'

11) Proposed Horizontal Leg Length: 25,245.08'

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 x No _____

(a) If Yes, provide Mine Info: Name: Ohio County Mine
Depth: 354'
Seam: Pittsburgh
Owner: ACNR

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Strader Gower
3/24/2026

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WW-6B
(04/15)

API NO. 47- 051 - 4705102582
OPERATOR WELL NO. Betty Schafer MSH 406H
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#	33449'	33449'	Tail 6456sx/ 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:				

Stephen Cooper
STRAPER COOPER
3/26/2026

07/24/2026

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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WV Department of Environmental Protection

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.

07/24/2026

CEMENT ADDITIVES						
INTERVAL	SCHLUMBERGER PRODUCT NAME	BJ PRODUCT NAME	NEXTIER PRODUCT NAME	PRODUCT USE	CHEMICAL NAME	CAS-Number
SURFACE (FRESHWATER)		INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
up to 3%	S001	A-7P	0110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
COAL PROTECTION		INTEGRA SEAL	0600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
up to 3%	S001	A-7P	CJIIO	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
INTERMEDIATE	D020	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	0047	FP 28L		LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
		INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	CemNet			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			CJIII	ACCELERATOR	SODIUM CHLORIDE	7440-23-5
		55-IIW	0880	SURFACTANT	NONIONIC SURFACTANT	6540-99-4
	DO47	FP 28L		LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
			OX157011	SOLID ANTIFOAM AGENT	FULLERS EARTH(ATTAPULGITE)	8031-18-3
			CJ540	HP FLUID LOSS ADDITIVE	ALIPHATICAMIDE POLYMER	PROPRIETARY
	0255			MED TEMP FLUID LOSS ADDITIVE	POLYACRILIC POLYMER	PROPRIETARY
			CJ213	RETARDER	CHRYSTALLINE SILICA	14808-60-7
		FL-66	0501	LOW TEMP FLUID LOSS ADD	POWDERED POLYSACCHARIDE	PROPRIETARY
		BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D208	ASA-301		VISCOSI FIER/ANTI-SETTLING AGENT	REFINED POLYMER/ CHRYSTALLINE SILICA	PROPRIETARY
	D198	R-3		CEMENT RETARDER	LIGNIN	8068-51-6
	SUGAR	SUGAR	CJ795	CEMENT RETARDER	SUCROSE	57-50-1
	D065			DISPERSANT	SODIUM POLYNAPHTHALENE SULFONATE	8068-51-6
	D800			CEMENT RETARDER (Mid-Temperature)	SODIUM LIGNOSULFONATE	8061-51-6

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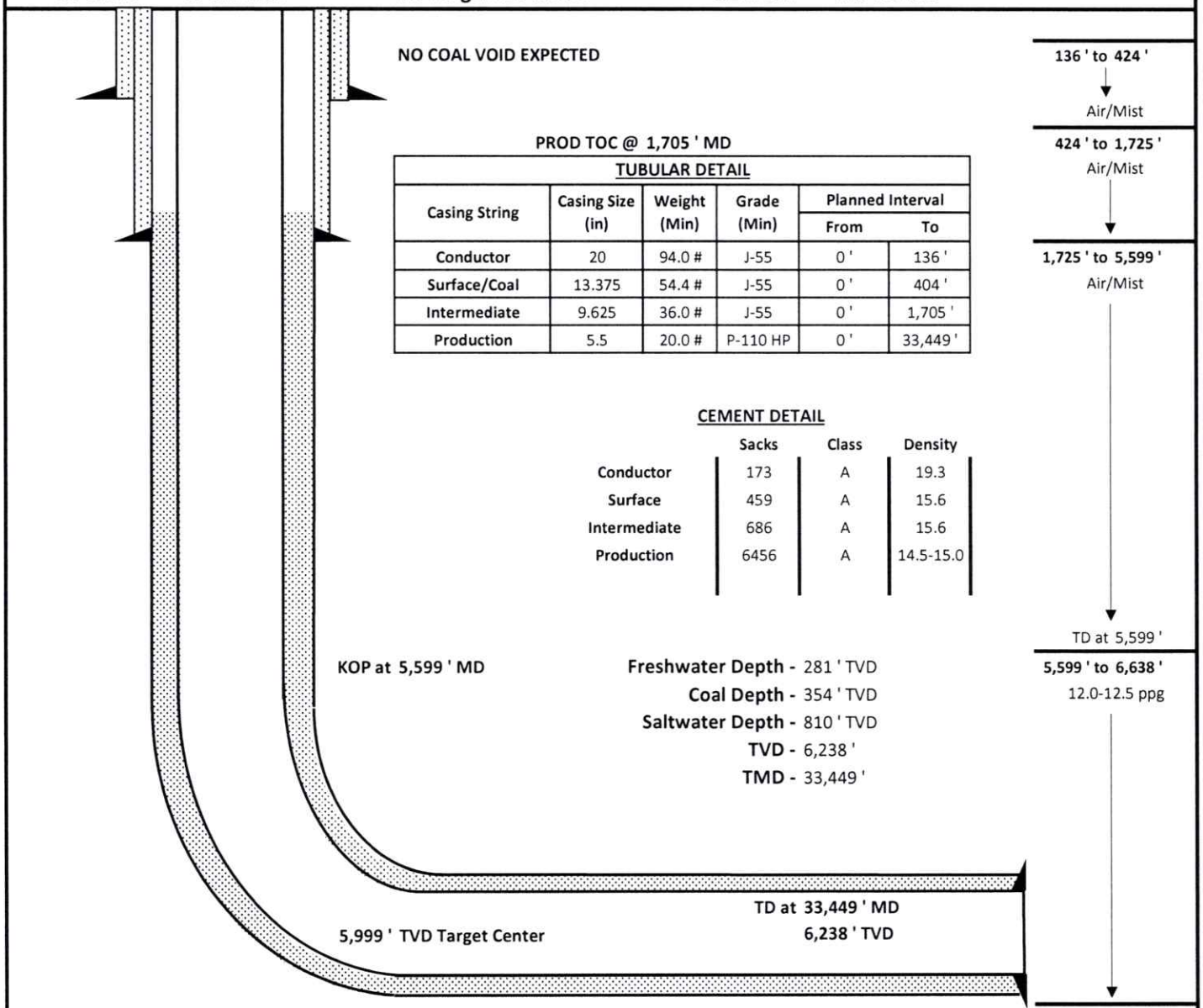
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4705102582

Expand Energy | Proposed Drilling Program

Well:	Betty Schafer MSH 406H	**Drilling Rig:**	EDC 41
Field:	Panhandle	**Formation:**	Marcellus Shale
County:	Marshall	**State:**	WV
SHL (NAD83):	39.990939 Latitude	-80.635511 Longitude	
BHL (NAD83):	39.924902 Latitude	-80.594168 Longitude	
KB Elev:	875 ft MSL	KB Height: 26 ft AGL	GL Elev: 849 ft MSL



TUBULAR DETAIL

Casing String	Casing Size (in)	Weight (Min)	Grade (Min)	Planned Interval From	Planned Interval 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 '	33,449 '

CEMENT DETAIL

	Sacks	Class	Density
Conductor	173	A	19.3
Surface	459	A	15.6
Intermediate	686	A	15.6
Production	6456	A	14.5-15.0

Created by: Tyler McCullar on 03/02/2026

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Stephen Gower
STRADER GOWER
3/26/2026

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WW-9
(4/16)

API Number 47 - 051 -
Operator's Well No. Betty Schafer MSH 406H

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 anticpiated 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, PMS 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.

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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 Notary Public

My commission expires 6/23/2029

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
Elizabeth Blankenship
70 Jessica Road
Weston, WV 26452
My Commission Expires June 23, 2029

07/24/2026

Drilling Mediums

Surface/Coal (if present)/Freshwater Intervals

Air

Freshwater (if needed based on conditions)

Intermediate/Coal (if present)

Air

Freshwater (if needed based on conditions)

Brine (if needed, base fluid for mud systems)

Production Hole:

Air

Synthetic Oil (Base Fluid for mud system)

Barite

Calcium Chloride

Lime

Organophilic Bentonite

Primary and Secondary Emulsfiers

Gilsonite

Calcium Carbonate

Friction Reducers

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JUN 23 2026
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Form WW-9

Operator's Well No. Betty Schafer MSH 406H

Expand Operating LLC

Proposed Revegetation Treatment: Acres Disturbed 7.82 Prevegetation pH _____

Lime as determined by pH test min.2 Tons/acre or to correct to pH 2.99

Fertilizer type 10-20-20

Fertilizer amount 600/500 lbs/acre

Mulch Hay/Straw Tons/acre

Seed Mixtures

Temporary		Permanent	
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: STRADER GOWER

Comments: _____

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Title: Oil & Gas Inspector Date: 3/26/2026

Field Reviewed? (X) Yes ( ) No

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Attachment 3C

WVD Seeding Specification

To Order Seed contact John Dubowski office 304-209-5741 cell 346-773-6078 john.dubowski@expandenergy.com (please allow 7 to 10 days for delivery)

NON-ORGANIC PROPERTIES

Seed Mixture: ROW Mix	SWN Supplied
Orchardgrass	40%
Timothy	15%
Annual Ryegrass	15%
Brown Top Millet	5%
Red Top	5%
Medium Red Clover	5%
White Clover	5%
Birdsfoot Trefoil	5%
Rough Bluegrass	5%

All legumes are innoculated at 5x normal rate

Apply @ 100lbs per acre
April 16th- Oct. 14th

Apply @ 200lbs per acre
Oct. 15th- April 15th PLUS
50lbs per acre of Winter Wheat

SOIL AMENDMENTS

10-20-20 Fertilizer	*Apply @ 500lbs per Acre
Pelletized Lime	Apply @ 2 Tons per Acre

*unless otherwise dictated by soil test results

Seeding Calculation Information:

1452' of 30' ROW/LOD is One Acre
871' of 50' ROW/LOD is One Acre
622' of 70' ROW/LOD is One Acre

Synopsis:

Every 622 linear feet in a 70' ROW/LOD, you should be using (2) 50lb bags of seed, (4) 50lb bags of fertilizer and (80) 50lb bags of Lime (2x seed in winter months + 50lb Winter Wheat/ac).

Special Considerations:

Landowner Special Considerations including CREP program participants require additional guidance that is not given here. Discuss these requirements with Expand supervision at the beginning of the project to allow time for special seed delivery.

ORGANIC PROPERTIES

Seed Mixture: Expand Production Organic Mix	Expand Supplied
Organic Timothy	50%
Organic Red or White Clover	50%
OR	
Organic Perennial Ryegrass	50%
Organic Red or White Clover	50%

Apply @ 100lbs per acre
April 16th- Oct. 14th

Apply @ 200lbs per acre
Oct. 15th- April 15th

Organic Fertilizer @ 200lbs per Acre

Pelletized Lime @ 2 Tons per Acre

WETLANDS (delineated as jurisdictional wetlands)

Seed Mixture: Wetland Mix	Expand Supplied
VA Wild Ryegrass	20%
Annual Ryegrass	20%
Fowl Bluegrass	20%
Cosmos 'Sensation'	10%
Redtop	5%
Golden Tickseed	5%
Maryland Senna	5%
Showy Tickseed	5%
Fox Sedge	2.5%
Soft Rush	2.5%
Woolgrass	2.5%
Swamp Verbena	2.5%

Apply @ 25lbs per acre
April 16th- Oct. 14th

Apply @ 50lbs per acre
Oct. 15th- April 15th

NO FERTILIZER OR LIME INSIDE WETLAND LIMITS

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Rev.10/11/2024

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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 406H
Moundsville QUAD
Sand Hill DISTRICT
MARSHALL COUNTY, WEST VIRGINIA

Submitted by:

Name: Brittany Woody Date: 1/14/2026

Brittany Woody

Title: Senior Regulatory Analyst Expand Energy

Approved by:

Name: STRADER GOWER Date: 3/24/2026

Title: Oil & Gas Inspector

Approved by:

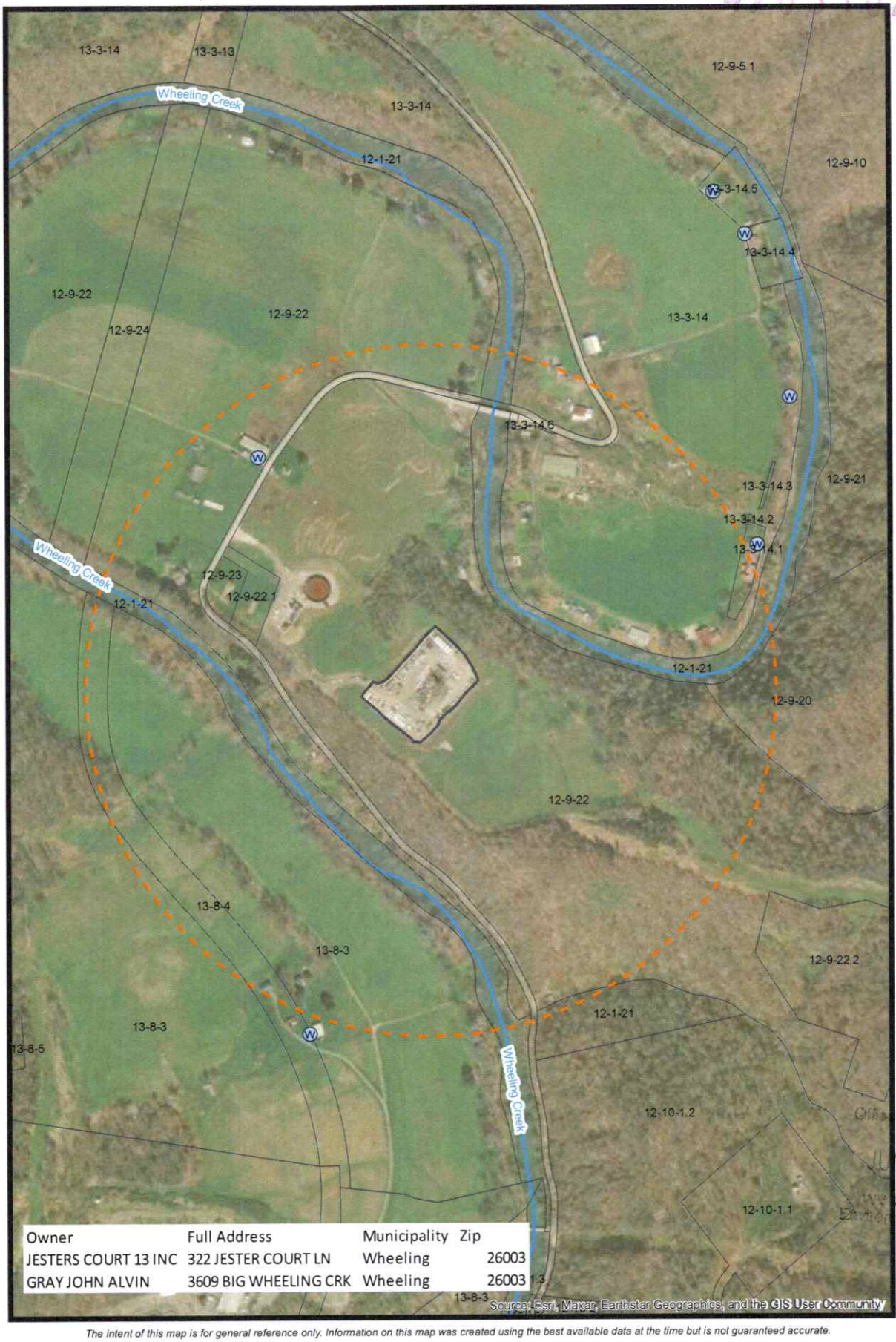
Name:_____ Date: _____

Title: _____

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Owner	Full Address	Municipality	Zip
JESTERS COURT 13 INC	322 JESTER COURT LN	Wheeling	26003
GRAY JOHN ALVIN	3609 BIG WHEELING CRK	Wheeling	26003 1 3

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	Date: 6/12/2023
Nad 83 UTM Z one 17	expand

Water Sources
- Spring
- Water Well
- Pond

1 inch = 472 feet

0 165 330 660 990 1,320

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Latitude: 40°00'00" SURFACE HOLE 2,945'

Latitude: 39°57'30" BOTTOM HOLE 3,037'

SURFACE HOLE 3,301'

Longitude: 80°37'30"

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

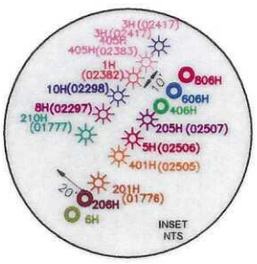
SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,426,815.142 EASTING: 531,116.858
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,426,545.187 EASTING: 530,668.834
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,419,500.940 EASTING: 534,679.705

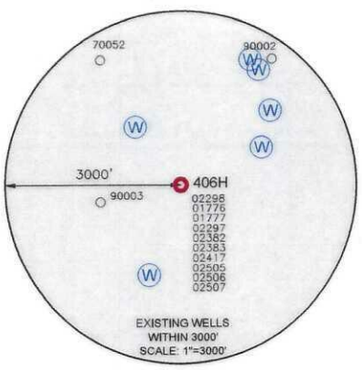
SHL

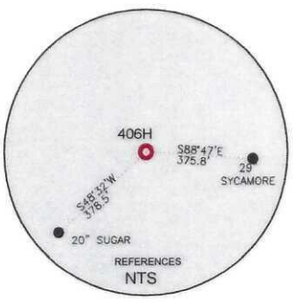
LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 74°52'12" W	827.65'	SHL TO LANDMARK	FD. 5/8" REBAR
L2	S 57°43'34" E	1689.55'	SHL TO LANDMARK	FD. 5/8" REBAR
L4	S 30°16'04" E	1540.65'	AZL1 TO AZL2	

LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	S 58°55'44" W	1716.10'	2210.85'	SHL TO LPL

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







BHL

BOTTOM HOLE 12,179'

Longitude: 80°35'00"

WELL RESTRICTIONS

1. NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
2. NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
3. NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
4. NO PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
5. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
6. 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

1. 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.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. 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

DAVID L JACKSON LICENSED NO. 708 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

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 SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)

OPERATOR'S WELL #: BETTY SCHAFER MSH 406H

API WELL #: 47 (STATE) 051 (COUNTY) 02582 (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: 6,238 TVD 33,449 TMD

WELL OPERATOR: EXPAND OPERATING LLC DESIGNATED AGENT: BRITTANY WOODY

ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200

CITY: MORGANTOWN STATE: WV ZIP CODE: 26508 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

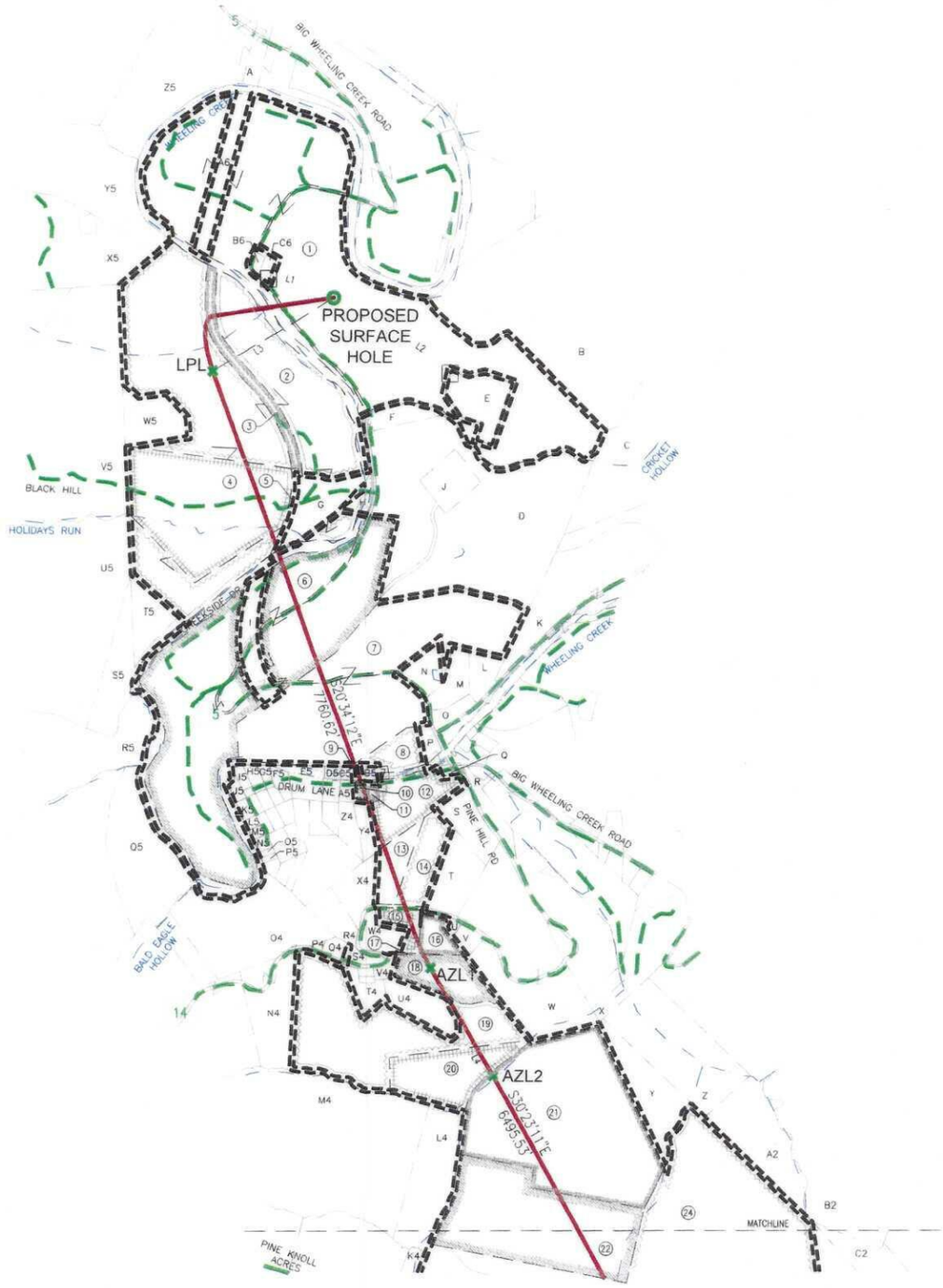
LEGEND:
- PROPOSED SURFACE HOLE / BOTTOM HOLE
- EXISTING / PRODUCING WELLHEAD
- LPL LANDING POINT LOCATION
- (W) EXISTING WATER WELL
- (S) EXISTING SPRING
- SURVEYED BOUNDARY
- DRILLING UNIT
- LEASE BOUNDARY
- PROPOSED PATH

REVISIONS:	DATE: 02-16-2026
	DRAWN BY: N. MANO
	SCALE: 1" = 2000'
	DRAWING NO:
	WELL LOCATION PLAT

Z:\2026 BACKUPS\1-02-26 DJ\EXPAND\BETTY SCHAFER\BETTY SCHAFER\WELL PLAT\406H\FINAL\SCHAFER 406H 2-16-26\B.SCHAFER MSH 406H WELL PLAT 2-16-26.DWG
MONDAY FEBRUARY 16 2026 08:50AM

PROPERTY NUMBER 675884
PAD ID 3001161677

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



DAVID L JACKSON
LICENSED
NO. 708
STATE OF
WEST VIRGINIA
PROFESSIONAL SURVEYOR

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

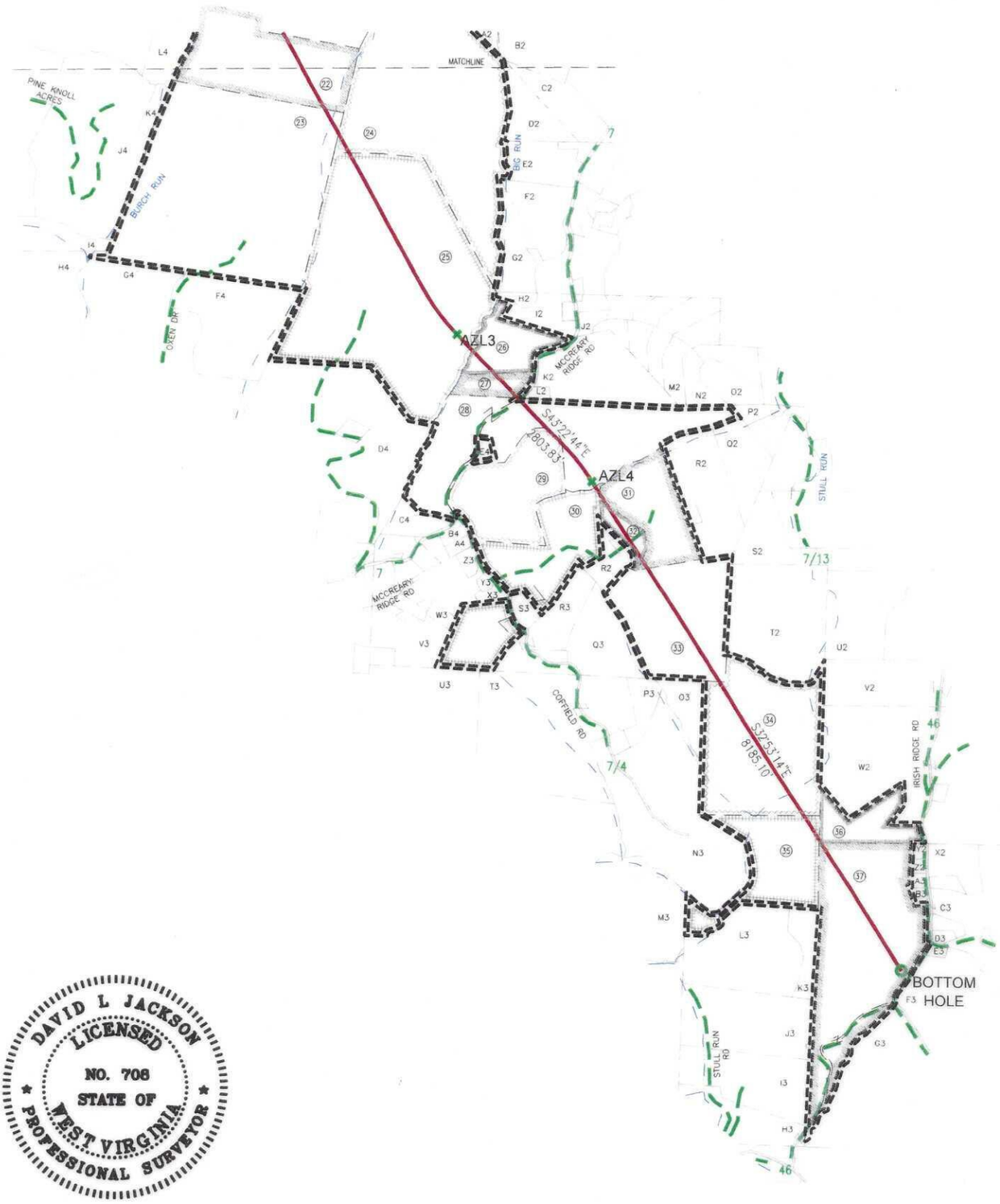
2000 0 2000
GRAPHIC SCALE IN FEET

07/24/2026

REVISIONS: 47-051-02582	COMPANY: expand		
OPERATOR'S WELL #: BETTY SCHAFER MSH 406H		API # 47-051-	DATE: 02-16-2026
DISTRICT: SAND HILL	COUNTY: MARSHALL	STATE: WV	DRAWN BY: N. MANO SCALE: 1" = 2000' DRAWING NO: WELL LOCATION PLAT 2

Z:\2026 BACKUPS\1-02-26 DJ\EXPAND\BETTY SCHAFER\BETTY SCHAFER\WELL PLAT\406H\FINAL\SCHAFER 406H 2-16-26\B.SCHAFER MSH 406H WELL PLAT 2-16-26.DWG
MONDAY FEBRUARY 16 2026 08:52AM

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



DAVID L JACKSON
LICENSED
NO. 708
STATE OF
WEST VIRGINIA
PROFESSIONAL SURVEYOR

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: 47-051-02582	COMPANY: expand			
OPERATOR'S WELL #:	BETTY SCHAFER MSH 406H		API # 47-051-02582	DATE: 02-16-2026
DISTRICT: SAND HILL	COUNTY: MARSHALL	STATE: WV		DRAWN BY: N. MANO
				SCALE: N/A
				DRAWING NO:
				WELL LOCATION PLAT 3

Z:\2026 BACKUPS\1-02-26 DJ\EXPAND\BETTY SCHAFER\BETTY SCHAFER\WELL PLAT\406H\FINAL\SCHAFER 406H 2-16-26\B.SCHAFER MSH 406H WELL PLAT 2-16-26.DWG
MONDAY FEBRUARY 16 2026 08:52AM

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	HOGG THOMAS G & DONN W ET AL (S)	13-8-3
3	HOGG THOMAS G & DONN W ET AL (S)	13-8-4
4	OHIO COUNTY COAL RESOURCES INC (S)	13-8-3.1
5	OHIO COUNTY COAL RESOURCES INC (S)	13-8-4.1
6	MEADOW LAKE CLUB CO (S)	12-10-2
7	WILSON RUSSELL ROBERT II & ZUREK CHRISTINE (S)	12-10-4
8	WILSON RUSSELL ROBERT II & ZUREK CHRISTINE (S)	12-10-4.4
9	JOCHUM MARK SCOTT (S)	13-9A-26
10	JOCHUM MARK SCOTT (S)	13-9A-25
11	LYNSKEY JOHN (S)	13-9A-28
12	LYNSKY JOHN T ET UX (S)	13-9-16.1
13	SHAW JEFFERY	13-9-16.4
14	QUINN KEVIN T ET UX	13-9-16.2
15	SHIPMAN CARRIE A	13-9-20
16	GARDNER ZACHARY R	13-9-20.2
17	SHIPMAN CARRIE A ET AL	13-9-19
18	SHIPMAN CARRIE A ET AL	13-9-21
19	BERTRAM LUKE D & ALISON M	13-9-23
20	BERTRAM LUKE D & ALISON M	13-14-19
21	WHITLATCH DEBORAH S & HARRIS BRENDA J EST	15-1-22
22	EQT PRODUCTION COMPANY	15-2-1
23	EQT PRODUCTION COMPANY	15-2-16
24	ISKCON - NEW MATHURA VRINDABAN	15-2-2
25	SNYDER HARRY BRENT	15-2-15
26	ONE WORLD ONE FAMILY SPIRITUAL SOCIETY INC	15-2-8
27	MAHATME HIRA	15-2-9
28	ECO-VRINDABAN INC	15-2-13
29	PARSONS HAROLD A	15-2-13.1
30	BOCK THOMAS A ET UX	15-7-22
31	ISKCON - NEW MATHURA VRINDABAN	15-7-24.2
32	HOUSMAN BRUCE J	15-7-24.3
33	GEETA	15-7-24.1
34	COFFIELD WILLIAM E & BRENDA K ET AL	15-6-16
35	SCHRACK DAVID W	15-7-30
36	LILLEY RONALD E SR - TOD	15-6-17.1
37	SIBURT RICHARD A ET UX	15-9-11

07/24/2026

REVISIONS: 47-051-02582	COMPANY: expand		
OPERATOR'S WELL #: BETTY SCHAFER MSH 406H		API # 47-051-	DATE: 02-16-2026
DISTRICT: SAND HILL	COUNTY: MARSHALL	STATE: WV	DRAWN BY: N. MANO SCALE: N/A DRAWING NO: WELL LOCATION PLAT 4

Z:\2026 BACKUPS\1-02-26 DJ\EXPAND\BETTY SCHAFER\BETTY SCHAFER\WELL PLAT\406H\FINAL\SCHAFER 406H 2-16-26\B.SCHAFER MSH 406H WELL PLAT 2-16-26.DWG
MONDAY FEBRUARY 16 2026 08:55AM

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

	ADJOINING OWNERS TABLE	
TRACT	SURFACE OWNER	TAX PARCEL
A	GRAY JUDY C	13-3-13
B	FISHER CHARLES B & CARLA S	12-9-20
C	MERINAR CALVIN C - LIFE	12-9-19
D	FISH PATRICIA A & FREDERICK W	12-10-1.2
E	OHIO COUNTY COAL RESOURCES INC	12-9-22.2
F	ROMAN EUGENE H	12-10-1
G	OHIO COUNTY COAL RESOURCES INC	13-8-3.2
H	CNX LAND LLC	12-10-1.3
I	MEADOW LAKE CLUB CO	12-10-3
J	OHIO COUNTY COAL RESOURCES INC	12-10-1.1
K	GEETA	15-1-2
L	WILSON PHILIP C ET UX	12-10-4.3
M	WILSON CHARLES H EST	12-10-4.1
N	HICKS ROBT P & JANICE A	12-10-5
O	WILSON PHILIP C ET AL	12-10-6
P	WILSON PHILIP C & NANCY L	12-10-4.5
Q	GEETA	13-9A-29
R	GEETA	15-1-4
S	LYNSKEY JOHN T	13-9-17
T	LYNSKEY MARY D	13-9-16.3
U	GARDNER ROBERT A ET UX	13-9-20.3
V	PLANTS GARY & PAUL	13-9-18.1
W	WHITLATCH DEBORAH S & BRENDA J HARRIS	13-9-18
X	STATE OF W VA THE CONSER COMM	15-1-5.1
Y	WHITLATCH DEBORAH S & HARRIS BRENDA J EST	15-1-21
Z	GEETA	15-1-20
A2	GEETA	15-1-6
B2	ROSE TATIA JOSEPHINE	15-1-19
C2	GAFFOOR SHAM & VIDYA RAMKAREE	15-2-3.8
D2	ISKCON - NEW MATHURA VRINDABAN	15-2-3
E2	ORDONEZ CARLOS	15-2-5.3
F2	WEBER GIRIDHARI D	15-2-5.5
G2	ISKCON NEW VRINDABAN INC	15-2-5
H2	ONE WORLD ONE FAMILY SPIRITUAL SOCIETY INC	15-2-8.3
I2	CONNER LISA M	15-2-8.2
J2	THIBEAULT PATRICIA	15-2-12.1
K2	SEWARD RALPH J & JANE D - TOD	15-2-11
L2	BRYANT CRINAIN	15-2-10
M2	LUKOSEVICIUS GINTARAS	15-2-12.5
N2	BAUER SUSAN - TOD	15-2-12.8
O2	MOHAN NAITHANI P & RENATA BRUZA	15-2-12.4
P2	COFFIELD CLARENCE EST	15-3-29
Q2	MOREAU DENIS J & MARGARET COUTU-MOREAU ET AL	15-7-24.4
R2	ISKCON - NEW MATHURA VRINDABAN	15-7-24
S2	KWIATKOSKI ANGELIQUE A	15-6-10
T2	MILLER R CRAIG & DONITA D	15-6-11
U2	FITZSIMMONS MARK B ET UX - TOD	15-6-12
V2	FITZSIMMONS MARK B & DEBORAH A- TOD	15-6-15
W2	KAISER JOE M & SHIRLEY A FAMILY REVOCABLE TRUST	15-6-17
X2	YOHO DONALD R ET UX	15-9-12.2
Y2	SIBURT RICHARD A & PAULA S	15-9-11.2
Z2	MCMILLAN TAMMY JO - LIFE	15-9-11.4
A3	MCMILLAN WILLARD L EST	15-9-11.1
B3	MCMILLAN TAMMY JO - LIFE	15-9-11.3
C3	YOHO RONALD LEE & REBECCA A	15-9-12
D3	JONES PATRICIA ANN	15-9-12.1
E3	STROPE MICHAEL A	15-9-10.4
F3	SCOTT GARY R EST	15-9-10.2
G3	HAWKINS GERALD B ET UX	15-9-10.3
H3	SCHRACK DAVID W - RIGHT TO OCCUPY	15-9-4
I3	SCHRACK DAVID W - RIGHT TO OCCUPY	15-9-3
J3	SCHRACK DAVID W - RIGHT TO OCCUPY	15-9-2
K3	SCHRACK DAVID W	15-9-1.1
L3	SCHRACK TROY D	15-9-1
M3	FRIED GABRIEL B	15-7-29
N3	LAWHEAD JUDITH & DEBORAH HOLDREN	15-7-26
O3	COFFIELD WILLIAM E & BRENDA K ET AL	15-7-25
P3	RICE STEVEN T & TAMMIE R	15-7-26.2

	ADJOINING OWNERS TABLE	
TRACT	SURFACE OWNER	TAX PARCEL
Q3	HASLAM LORRAINE & SRI	15-7-23
R3	BOCEK LORRAINE D & KEITH C - TOD	15-7-23.3
S3	BURKLE GERALD E ET AL	15-7-22.1
T3	COFFIELD WILLIAM E & BRENDA K	15-7-27
U3	GEETA	15-7-19
V3	ECO-VRINDABAN INC	15-7-21
W3	SALVI SANDESH & CHARUTA	15-7-21.8
X3	WALKER MARCUS RAINER	15-7-21.7
Y3	PATEL MIRABEN & SHYAMSUNDAR & DEVKUMAR	15-7-21.2
Z3	RAMI ANIL	P-O 15-7-21
A4	FINK LAURENCE & NATALIA KISLITSINA	15-2-19
B4	SARKAR SUBHANANDA & MAJUMDER SUMON	15-7-21.5
C4	PARSONS NATASHA C	15-2-13.2
D4	SNYDER HARRY B ET UX	15-2-14
E4	VILLA ARTHUR & LINDA	P/O 15-2-13
F4	ECO-VRINDABAN INC	15-2-17.3
G4	PAYNE NORMA C ET AL	15-2-17.4
H4	SMITH RICHARD A	14-5-27
I4	GRAY CAROLYN L	13-14-24.2
J4	HEWITT PAUL	13-14-22
K4	EQT PRODUCTION COMPANY	13-14-21
L4	EQT PRODUCTION COMPANY	13-14-20
M4	HALL ALLEN W & MICHELLE S	13-14-18
N4	MCWHORTER WILLIAM L III & CRYSTAL A	13-9-24
O4	MCWHORTER WILLIAM L III & CRYSTAL A	13-9-13
P4	GARDNER ZACHARY R & KUTIS SHANNA	13-9-23.1
Q4	GARDNER ZACHARY R & KUTIS SHANNA	13-9-23.4
R4	RICHARDSON CHRIS A ET UX	13-9-16.5
S4	PATTERSON ERIC L	13-9-23.5
T4	BERTRAM LUKE D & ALISON M	13-9-22
U4	WEST NANCY L	13-9-23.3
V4	WEST NANCY L	13-9-22.1
W4	EWING ALICE M - LIFE	13-9-20.1
X4	SHAW JEFFERY WILLIAM & VICKIE	13-9-16.6
Y4	JOCHUM MARK SCOTT	13-9A-31
Z4	POMPEO MICHAEL J & ELIZABETH	13-9A-33
A5	POMPEO MICHAEL J & ELIZABETH	13-9A-24
B5	LYNSKY JOHN T ET UX	13-9A-27
C5	POMPEO MICHAEL J & ELIZABETH	13-9A-23
D5	JOCHUM BRUCE & SALLY	13-9A-22
E5	STILLWELL ROBERT L - LIFE	13-9A-30
F5	CUNNINGHAM ROBERT T & MARY C	13-9A-20
G5	CUNNINGHAM ROBERT T & MARY C	13-9A-19
H5	CUNNINGHAM ROBERT TERRY	13-9A-16
I5	JUREK EDWARD PAUL JR & TAMELA S	13-9A-15
J5	WEST JONATHAN SCOTT	13-9A-13
K5	REAM FRED M & JUDITH P	13-9A-12
L5	KIRCHNER GREGORY A & RYAN T	13-9A-4
M5	WHITE GLENN E & MARTHA R- TOD	13-9A-4.1
N5	HUTCHISON J ROBERT	13-9A-3
O5	NEIDHARDT CHRISTOPHER E - TOD	13-9A-2
P5	NEIDHARDT CHRISTOPHER E - TOD	13-9A-2.1
Q5	MARSHALL LAND LLC	13-9-12
R5	CUNNINGHAM BESSIE JANE	13-9-11
S5	DEBOLT JANICE	13-9-2
T5	DEBOLT JANICE	13-9-1
U5	CUNNINGHAM GEORGE A	13-9-3
V5	KINNEER VERNON A JR & JAMIE	13-8-6
W5	KINNEER VERNON A JR ET AL	13-8-5
X5	BLACK BONNIE J TRUST	13-8-2
Y5	HART JOHN J & RENEE A	13-8-2.1
Z5	GRAY JUDY C	13-3-14
A6	APPALACHIA MIDSTREAM SERVICES LLC	12-9-24
B6	APPALACHIA MIDSTREAM SERVICES LLC	12-9-23
C6	APPALACHIA MIDSTREAM SERVICES	13-9-22.1

07/24/2026

REVISIONS: 47-051-02582	COMPANY: expand		
OPERATOR'S WELL #: BETTY SCHAFER MSH 406H		API # 47-051-	DATE: 02-16-2026
DISTRICT: SAND HILL	COUNTY: MARSHALL	STATE: WV	DRAWN BY: N. MANO SCALE: N/A DRAWING NO: WELL LOCATION PLAT 5

Z:\2026 BACKUPS\1-02-26 DJ\EXPAND\BETTY SCHAFER\BETTY SCHAFER\WELL PLAT\406H\FINAL\SCHAFER 406H 2-16-26\B.SCHAFER MSH 406H WELL PLAT 2-16-26.DWG
MONDAY FEBRUARY 16 2026 08:55AM

4705102582

WW-6A1
(5/13)

Operator's Well No. Betty Schafer MSH 406H

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"				

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

*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 Kelley Ryan
Its: Landman II

07/24/2026

EXHIBIT "A"
Betty Schafer MSH 406H
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	13-8-3	Donn W. Hogg (Remainderman), 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	834/210	0%
		Judith Ann Stollar (Remainderman) and Ronald L. Stollar, her husband	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	837/66 33/110 1094/490	
		Nancy Hamby (Remainderman), a single woman	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	836/585 33/110 1094/490	
		Thomas G. Hogg (Remainderman), 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	836/579 33/110 1094/490	
		WesBanco Trust and Investment Services, Trustee, under Trust Agreement dated 02/29/2012, FBO Jane Marie Robertson (Remainderman), by Lea Ridenhour, Trust Officer	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	836/573 33/110 1094/490	
		WesBanco Trust and Investment Services, Trustee, under Trust Agreement dated 02/29/2012, FBO Margaret Ellen Hogg (Remainderman), by Lea Ridenhour, Trust Officer	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	836/563 33/110 1094/490	
3	13-8-4	Donn W. Hogg (Remainderman), 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	834/210	0%
		Judith Ann Stollar (Remainderman) and Ronald L. Stollar, her husband	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	837/66 33/110 1094/490	
		Nancy Hamby (Remainderman), a single woman	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	836/585 33/110 1094/490	
		Thomas G. Hogg (Remainderman), 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	836/579 33/110 1094/490	
		WesBanco Trust and Investment Services, Trustee, under Trust Agreement dated 02/29/2012, FBO Jane Marie Robertson (Remainderman), by Lea Ridenhour, Trust Officer	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	836/573 33/110 1094/490	
		WesBanco Trust and Investment Services, Trustee, under Trust Agreement dated 02/29/2012, FBO Margaret Ellen Hogg (Remainderman), by Lea Ridenhour, Trust Officer	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	836/563 33/110 1094/490	
4	13-8-3.1	CNX Gas Company, LLC	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	902/4 1094/490	0%
5	13-8-4.1	CNX Gas Company, LLC	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	902/4 1094/490	0%
6	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%
7	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	
8	12-10-4.4	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	
9	13-9A-26	Unleased owner (s) subject to unitization filing	N/A	N/A	N/A	100%

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10	13-9A-25	Unleased owner (s) subject to unitization filing	N/A	N/A	N/A	100%
11	13-9A-28	Unleased owner (s) subject to unitization filing	N/A	N/A	N/A	100%
12	13-9-16.1	Unleased owner (s) subject to unitization filing	N/A	N/A	N/A	100%
13	13-9-16.4	Unleased owner (s) subject to unitization filing	N/A	N/A	N/A	100%
14	13-9-16.2	Unleased owner (s) subject to unitization filing	N/A	N/A	N/A	100%
15	13-9-20	Phyllis J. Gatts, a widow, Life Tenant, William L. Ewing and Alice M. Ewing, husband and wife; Carrie A. Shipman, a married woman dealing in her sole and separate property, Remainderman	TH Exploration, LLC EQT TGHL Exploration, LLC et al Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1134/344 2/463, 2/472 54/238	0%
16	13-9-20.2	Zachary R. Gardner and Shanna M. Gardner, husband and wife	TH Exploration, LLC EQT TGHL Exploration, LLC et al Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1137/215 2/463, 2/472 54/238	0%
17	13-9-19	Sandra Sue McAfee, a widow	TH Exploration, LLC EQT TGHL Exploration, LLC et al Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1134/341 2/463, 2/472 54/238	0%
		Reynolds Property Holdings, LLC	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1196/283 1094/490	
		Kari L. McAfee	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1200/593 1094/490	
18	13-9-21	Sandra Sue McAfee, a widow	TH Exploration, LLC EQT TGHL Exploration, LLC et al Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1134/341 2/463, 2/472 54/238	0%
		Reynolds Property Holdings, LLC	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1196/283 1094/490	
		Kari L. McAfee	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1200/593 1094/490	
19	13-9-23	Luke D. Bertram and Alison M. Bertram, 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	684/577 33/110 1094/490	0%
20	13-14-19	Luke D. Bertram and Alison M. Bertram, 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	684/577 33/110 1094/490	0%
21	15-1-22	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	15-2-1	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	984/388 44/254 48/263 1094/490	0%
23	15-2-16	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	984/388 44/254 48/263 1094/490	0%
24	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%
25	15-2-15	Harry B. Snyder and Elizabeth Jane Snyder, his wife	TriEnergy, Inc. AB Resources, LLC Chief Exploration & Development, Radler 2000 LP Chevron U.S.A. Inc Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	654/65 741/88 19/138 24/319 25/1 30/532 33/110 1094/490	0%
		Sheri Abel	Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1270/615	
		Edith Mitchel, f/k/a Edith Kerekes, a married woman dealing in her sole and separate property	Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1267/155	

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		Misty Lynn Pearson, a/k/a Misty Dolin, a married woman dealing in her sole and separate property	Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1267/173	
		Tammy Dawn DeBolt, a/k/a Tammy Dolin, a married woman dealing in her sole and separate property	Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1267/164	
26	15-2-8	One World One Family Spiritual Society, Inc.	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1208/99 1094/490	0%
27	15-2-9	Hira Mahatme, 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	1208/86 1094/490	0%
28	15-2-13	Jeffrey T. Bock, a single man	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1191/203 1094/490	0%
		Sally Stollar, f/k/a Sally Hunter-Bock, 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	1218/399 1094/490	
29	15-2-13.1	Resource Minerals Headwater I, 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	1031/172 44/254 1093/34, 48/263 1094/490	0%
30	15-7-22	Thomas D. Cain and Carole L. Cain, husband and wife	TH Exploration, LLC EQT TGHL Exploration, LLC et al Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1125/486 2/463, 2/472 54/238	0%
		David S. Cain, divorced	TH Exploration, LLC EQT TGHL Exploration, LLC et al Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1125/662 2/463, 2/472 54/238	
		Brent E. Cain, divorced	TH Exploration, LLC EQT TGHL Exploration, LLC et al Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1126/540 2/463, 2/472 54/238	
		Thomas A. Bock and Pamela L. Bock, husband and wife	TH Exploration, LLC EQT TGHL Exploration, LLC et al Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1160/636 2/463, 2/472 54/238	
		Herman D. Lantz, a single man	Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1263/248	
31	15-7-24.2	ISKCON New Vrindaban, Inc.	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1207/660 1094/490	0%
32	15-7-24.3	Bruce J. Housman	TH Exploration, LLC EQT TGHL Exploration, LLC et al Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1125/664 2/463, 2/472 54/238	0%
33	15-7-24.1	Eco-Vrindaban, Inc.	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1207/663 1094/490	0%
34	15-6-16	William E. Coffield and Brenda K. Coffield, husband and wife	TH Exploration, LLC EQT TGHL Exploration, LLC et al Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1151/341 2/463, 2/472 54/238	
		Kimber Lee Lawhead and Judith Lawhead, husband and wife	TH Exploration, LLC EQT TGHL Exploration, LLC et al Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1151/356 2/463, 2/472 54/238	0%
		Paul Holdren and Deborah Holdren, husband and wife	TH Exploration, LLC EQT TGHL Exploration, LLC et al Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1151/349 2/463, 2/472 54/238	
35	15-7-30	David W. Schrack, a single man	Great Lakes Energy Partners, L.L.C. Range Resources - Appalachia, LLC Chesapeake Appalachia LLC, et al Chevron U.S.A. Inc American Petrolem Partners Operating LLC High Road Operating, LLC TH Exploration, LLC EQT TGHL Exploration, LLC et al * See Leasehold Committment Letter attached	at least 1/8th per WV Code §22-6-8	659/37 23/368 19/443 30/461, 30/427 43/529, 44/286 44/254 49/249 2/463, 2/472	100%
36	15-6-17.1	Harry W. Lilley and Elnor Lilley, husband and wife	Chevron U.S.A. Inc. EQT Aurora LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	983/484 47/1 54/238	0%
37	15-9-11	Richard A. Siburt and Paula S. Siburt, husband and wife	TH Exploration, LLC EQT TGHL Exploration, LLC et al Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1128/134 2/463, 2/472 54/238	0%

*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
*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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EQT Production Company
EQT CHAP LLC
EQT Aurora LLC
EQT TGHL Exploration LLC
EQT TGHL Exploration II LLC
EQT TGHL 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 TGHL Exploration LLC, a Texas limited liability company ("TGHL"), whose address is 2200 Energy Drive, Canonsburg, Pennsylvania 15317, and EQT TGHL Exploration II LLC, a Texas limited liability company ("TGHL II"), whose address is 2200 Energy Drive, Canonsburg, Pennsylvania 15317, and EQT TGHL Exploration III LLC, a Texas limited liability company ("TGHL III"), whose address is 2200 Energy Drive, Canonsburg, Pennsylvania 15317 (EPC, CHAP, TGHL, TGHL II, TGHL 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:

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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]

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EXE:
EXPAND APPALACHIA LLC
By Expand Energy Corporation, sole manager
DocuSigned by:
Derek Cutright
3466F1A736004B1...
By: Derek Cutright
Its: Vice President

Initial: GN | Initial: DW | Initial: GN | Initial: PMB

EQNR:
EQUINOR USA ONSHORE PROPERTIES INC.
DocuSigned by:
Eric Luszcz
46BC709B14C94A2...
By: Eric Luszcz
Its: Manager – Land

Initial: DB

EQT:
EQT PRODUCTION COMPANY
DocuSigned by:
B89B4A94E0C646A...
By: Corey C. Peck
Its: Vice President - Land

DS: GG | DS: LMS | DS: ME

EQT CHIVE LLC
DocuSigned by:
B89B4A94E0C646A...
By: Corey C. Peck
Its: Vice President - Land

DS: GG | DS: LMS | DS: ME

EQT AURORA LLC
DocuSigned by:
B89B4A94E0C646A...
By: Corey C. Peck
Its: Vice President - Land

DS: GG | DS: LMS | DS: ME

EQT DOHLE EXPLORATION LLC
DocuSigned by:
B89B4A94E0C646A...
By: Corey C. Peck
Its: Vice President - Land

DS: GG | DS: LMS | DS: ME

EQT DOHLE EXPLORATION II LLC
DocuSigned by:
B89B4A94E0C646A...
By: Corey C. Peck
Its: Vice President - Land

DS: GG | DS: LMS | DS: ME

EQT DOHLE EXPLORATION III LLC
DocuSigned by:
B89B4A94E0C646A...
By: Corey C. Peck
Its: Vice President - Land

DS: GG | DS: LMS | DS: ME

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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	984/388	10/1/2018	3.250000	[redacted]	13-0014-0021-0000
Michael L. Mennar and Vicki L. Mennar, his wife, as joint tenants	American Petroleum Partners Operating, LLC	925/473	5/8/2017	2.583000		12-0008-0016-0001
Timothy R. Mennar and Angela D. Mennar, husband and wife	TH Exploration, LLC	1136/663	5/19/2022	54.656000		12-0012-0001-0003
Carolyn L. Smith and Wayne Smith, wife and husband	American Petroleum Partners Operating, LLC	946/264	9/23/2017	2.000000		12-0008-0015-0002
Lisa G. McMillan, a widow	American Petroleum Partners Operating, LLC	945/118	9/20/2017	2.000000		12-0008-0015-0002
Robert W. McMillan and Rebecca K. McMillan, husband and wife	American Petroleum Partners Operating, LLC	945/73	9/20/2017	2.000000		12-0008-0015-0002
Carolyn L. Smith and Wayne Smith, wife and husband	American Petroleum Partners Operating, LLC	946/264	9/23/2017	1.984000		12-0008-0015-0004
Lisa G. McMillan, a widow	American Petroleum Partners Operating, LLC	945/118	9/20/2017	1.984000		12-0008-0015-0004
Robert W. McMillan and Rebecca K. McMillan, husband and wife	American Petroleum Partners Operating, LLC	945/73	9/20/2017	1.984000		12-0008-0015-0004
Michael L. Mennar and Vicki L. Mennar, his wife, as joint tenants	American Petroleum Partners Operating, LLC	925/473	5/8/2017	3.090000		12-0012-0001-0001
Rickee Jo Strope, a married woman dealing in her sole and	Chesapeake Appalachia, L.L.C.	690/380	7/15/2009	22.449520		15-0006-0009-0000
Mark Brent Fitzsimmons, a married man dealing in his sole	Chesapeake Appalachia, L.L.C.	690/385	7/15/2009	22.449520		15-0006-0009-0000
Mark B. Fitzsimmons and Deborah A. Fitzsimmons,	Chesapeake Appalachia, L.L.C.	690/320	7/15/2009	2.380000		15-0006-0015-0000
Sri Haslam, a single woman	Chevron U.S.A. Inc	961/64	12/9/2017	1.178000		15-0007-0023-0002
William E. Coffield and Brenda K. Coffield, husband and wife	TH Exploration, LLC	1151/345	11/10/2022	7.334439		15-0007-0028-0000
David W. Schrack, a single man	Great Lakes Energy Partners, L.L.C.	659/37	1/17/2007	40.000000		15-0007-0030-0000
Gary W. Strope and Rickee J. Strope, Trustees of the Strope	TH Exploration, LLC	1136/209	5/5/2022	4.000000		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	8/26/2022	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 Lilley, a single woman	TH Exploration, LLC	1146/76	8/16/2022	1.102000		15-0006-0017-0002
Cathy J. Cardwell, a widow	TH Exploration, LLC	1148/323	9/6/2022	1.102000		15-0006-0017-0002
Daniel L. Lilley and Danielle Lilley, husband and wife	TH Exploration, LLC	1146/78	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	ECT TGHL Exploration, LLC	1190/165	4/26/2024	1.102000		15-0006-0017-0002
Karen S. Altabas and Steve Altabas, wife and husband	ECT TGHL Exploration, LLC	1191/99	5/3/2024	1.102000		15-0006-0017-0002
Ronald E. Lilley, Sr., a single man	ECT TGHL Exploration, LLC	1191/96	5/9/2024	1.102000		15-0006-0017-0002
David W. Lilley, Sr. and Susan Lilley, husband and wife	ECT TGHL 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	8/16/2022	1.102000		15-0006-0017-0002

End of Exhibit "A"

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WV Department of
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expand

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 406H in Marshall County, West Virginia, Drilling under Drum Lane, Pine Hill Road, McCreary's Ridge Road, and Bock Lane.

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 Drum Lane, Pine Hill Road, McCreary's Ridge Road, and Bock Lane. 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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Environmental Protection

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

07/24/2026

4705102582

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 406H

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: 4,426,815
UTM coordinate NAD83 Easting: 531,117
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.

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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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WW-6AC
(1/12)

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

Date of Notice Certification: 6/22

API No. 47- 051 -
Operator's Well No. Betty Schafer MSH 406H
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:	West Virginia	UTM NAD 83 Easting:	531,116.858
County:	051-Marshall	Northing:	4,426,815.142
District:	Sand Hill	Public Road Access:	Big Wheeling Creek
Quadrangle:	Moundsville	Generally used farm name:	Betty Schafer MSH
Watershed:	Wheeling Creek		

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

	OOG OFFICE USE ONLY
☐ 1. NOTICE OF SEISMIC ACTIVITY or ☑ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	☐ RECEIVED/ NOT REQUIRED
☑ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ☐ NO PLAT SURVEY WAS CONDUCTED	☐ RECEIVED
☑ 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)	☐ RECEIVED/ NOT REQUIRED
☑ 4. NOTICE OF PLANNED OPERATION	☐ RECEIVED
☑ 5. PUBLIC NOTICE	☐ RECEIVED
☑ 6. NOTICE OF APPLICATION	☐ RECEIVED

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WV Department of
Environmental Protection

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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WW-6AC
(1/12)

4705102582

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	Address:	1300 Fort Pierpont Dr., Suite 201
By:	Brittany Woody		Morgantown, WV 26508
Its:	Senior Regulatory Analyst	Facsimile:	304-884-1690
Telephone:	304-209-5688	Email:	Brittany.Woody@expandenergy.com

Brittany Woody

NOTARY SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
Elizabeth Blankenship
60 Simpson Run Road
Weston, WV 26452
My Commission Expires June 23, 2029

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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WW-6A
(9-13)

API NO. 47- 051 - 4705102582
OPERATOR WELL NO. Betty Schafer MSH 406H
Well Pad Name: Betty Schafer MSH

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: upon **Date Permit Application Filed:** upon

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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(9-13)

API NO. 47- 051 - 4705102582
OPERATOR WELL NO. Betty Schafer MSH 406H
Well Pad Name: Betty Schafer MSH

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

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WW-6A
(8-13)

API NO. 47- 051 - 4705102582
OPERATOR WELL NO. Betty Schafer MSH 406H
Well Pad Name: Betty Schafer MSH

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 or 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.

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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

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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

Office of Oil and Gas
JUN 23 2026
WV Department of
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

WW-6A
(8-13)

API NO. 47- 051 - 4705102582
OPERATOR WELL NO. Betty Schafer MSH 406H
Well Pad Name: Betty Schafer MSH

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.

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

07/24/2026

WW-6A
(8-13)

API NO. 47- 051 - 4705102582
OPERATOR WELL NO. Betty Schafer MSH 406H
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

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.

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
Elizabeth Blankenship
60 Simpson Run Road
Weston, WV 26452
My Commission Expires June 23, 2029

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

Notary Public

My Commission Expires 6/23/2029

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

07/24/2026

47-051-02582

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

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

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	Approx. Latitude & Longitude:	39.990980, -80.635696
County:	Marshall	Public Road Access:	Big Wheeling Creek Road
District:	Sand Hill	Watershed:	Grandstaff Run-Wheeling Creek
Quadrangle:	Moundsville	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	Address:	1300 Fort Pierpont Dr., Suite 201
Telephone:	304-209-5688		Morgantown, WV 26508
Email:	Brittany.Woody@expandenergy.com	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.

07/24/2026

47-051-02582

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

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

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: _____

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

47-051-02582

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

☐ MINERAL OWNER(s)
Name: _____
Address: _____

*please attach additional forms if necessary

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

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	Approx. Latitude & Longitude:	39.990980, -80.635696
County:	Marshall	Public Road Access:	Big Wheeling Creek Road
District:	Sand Hill	Watershed:	Grandstaff Run-Wheeling Creek
Quadrangle:	Moundsville	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	Address:	1300 Fort Pierpont Dr., Suite 201
Telephone:	304-209-5688		Morgantown, WV 26508
Email:	Brittany.Woody@expandenergy.com	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.

07/24/2026

WW-6A4
(1/12)

4705102582
Operator Well No. Betty Schafer MSH 406H

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Requirement: Notice shall be provided at least **TEN (10)** days prior to filing a permit application.
Date of Notice: 03/24/2026 **Date Permit Application Filed:** 4/22

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

☐ HAND DELIVERY ☑ CERTIFIED MAIL RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided,* That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however,* That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

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

Name:
Address:

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

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

State: West Virginia
County: Marshall
District: Sand Hill
Quadrangle: Moundsville
Watershed: Wheeling Creek

UTM NAD 83 Easting: 531,116.858
Northing: 4,426,815.142
Public Road Access: Big Wheeling Creek Road
Generally used farm name: Betty Schafer

This Notice Shall Include:
Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. 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.

Notice is hereby given by:

Well Operator: Expand Energy Company, LLC
Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
Telephone: (304) 209-5685
Email: steve.pauley@expandenergy.com
Facsimile:

Authorized Representative: Steven Pauley
Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
Telephone: (304) 209-5685
Email: steve.pauley@expandenergy.com
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.

07/24/2026

WW-6A5
(1/12)

Operator Well No. 4705102582 BETTY SCHAFER MSH 406H

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:** 4/22

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

☒ CERTIFIED MAIL RETURN RECEIPT REQUESTED ☐ HAND 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: _____

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

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: West Virginia
County: Marshall
District: Sand Hill
Quadrangle: Moundsville, WV
Watershed: BETTY SCHAFER MSH 6H

UTM NAD 83 Easting: 531,116.858
Northing: 4,426,815.142
Public Road Access: Big Wheeling Creek Road
Generally used farm name: Betty Schafer

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.

07/24/2026

4705102582

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,

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

Lacy D. Pratt

Lacy D. Pratt
Central Office O&G Coordinator

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

07/24/2026

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
		Triethyl phosphate	78-40-0
Ferriplex 80	Iron Control	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
		Didecyldimethylammonium 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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JUN 23 2026
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07/24/2026

WW-6A7
(6-12)

4705102582

OPERATOR: Expand Operating LLC WELL NO: Betty Schafer MSH 406H

PAD NAME: Betty Schafer MSH

REVIEWED BY: _____ SIGNATURE: Brittany Woody

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

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☐ 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

07/24/2026