



---

west virginia department of environmental protection

---

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

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Wednesday, June 18, 2025  
WELL WORK PERMIT  
Horizontal 6A / New Drill

EXPAND OPERATING LLC  
6100 N WESTERN AVE.

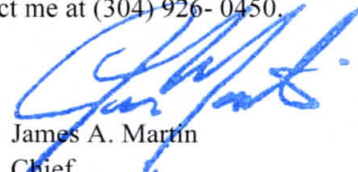
OKLAHOMA CITY, OK 73118

Re: Permit approval for DAVID REINBEAU MSH 410H  
47-051-02558-00-00

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.



James A. Martin  
Chief

Operator's Well Number: DAVID REINBEAU MSH 410H  
Farm Name: SHELLY A & DAVID W REINBEAU  
U.S. WELL NUMBER: 47-051-02558-00-00  
Horizontal 6A New Drill  
Date Issued: 6/18/2025

## 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.

06/20/2025

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

1) Well Operator: Expand Operating LLC 494533012 051-Marshall 07-Union 486-Moundsville  
Operator ID County District Quadrangle

2) Operator's Well Number: David Reinbeau MSH 410H Well Pad Name: David Reinbeau MSH

3) Farm Name/Surface Owner: Shelly A. & David W. Reinbeau Public Road Access: Sorghum Ridge Road

4) Elevation, current ground: 1251' Elevation, proposed post-construction: 1251'

5) Well Type (a) Gas ☒ Oil ☐ Underground Storage ☐  
Other ☐  
(b) If Gas Shallow ☒ Deep ☐  
Horizontal ☒

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Target Formation- Marcellus, Down-Dip well to the North, Target Top TVD- 6476', Target Base TVD- 6528', Anticipated Thickness- 52', Associated Pressure- 4243

8) Proposed Total Vertical Depth: 6508'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 28,970'

11) Proposed Horizontal Leg Length: 20,941.96'

12) Approximate Fresh Water Strata Depths: 426'

13) Method to Determine Fresh Water Depths: Deepest Nearby Water Well

14) Approximate Saltwater Depths: 883' Salinity Profile

15) Approximate Coal Seam Depths: 775'

16) Approximate Depth to Possible Void (coal mine, karst, other): None that we are aware of.

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes ☒ No ☐

(a) If Yes, provide Mine Info: Name: Ohio County Mine  
Depth: 775'  
Seam: Pittsburgh #8  
Owner: ACNR

RECEIVED  
Office of Oil and Gas  
MAY 07 2025  
WV Department of  
Environmental Protection

*Steve Lewis*  
STRADER GOWEN  
4/17/2025

WW-6B  
(04/15)

4705102558  
API NO. 47-051  
OPERATOR WELL NO. David Reinbeau MSH 410H  
Well Pad Name: David Reinbeau 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#	476'	476'	543 sx/CTS
Coal	See	Interm	Casing				
Intermediate	9 5/8"	New	J-55	36#	2091'	2091'	840 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	28970'	28970'	Tail 5460sx/ 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	Interm	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							

**PACKERS**

Kind:				
Sizes:				
Depths Set:				

RECEIVED  
Office of Oil and Gas  
MAY 07 2025  
WV Department of  
Environmental Protection

*St. L. G. Lower*  
STRADDER LOWER  
4/17/2025.

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): 18.42

22) Area to be disturbed for well pad only, less access road (acres): 10.4

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 \*\*\*

RECEIVED  
Office of Oil and Gas  
MAY 07 2025

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.

CEMENT ADDITIVES						
INTERVAL	SCHLUMBERGER PRODUCT NAME	BJ PRODUCT NAME	NEXTIER PRODUCT NAME	PRODUCT USE	CHEMICAL NAME	CAS-Number
SURFACE (FRESHWATER) <small>up to 3%</small>		INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	S001	A-7P	0110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
COAL PROTECTION <small>up to 3%</small>		INTEGRA SEAL	0600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
INTERMEDIATE	D020	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	0047	FP 28L		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			CJ111	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		VISCOFI 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

RECEIVED  
Office of Oil and Gas  
MAY 07 2025  
WV Department of  
Environmental Protection

06/20/2025

Expand Energy				Proposed Drilling Program	
Well:	DAVID REINBEAU MSH 401H			Drilling Rig:	EDC 41
Field:	PANHANDLE FIELD			Formation:	Marcellus Shale
County:	MARSHALL			State:	WV
SHL (NAD83):	39.992759 Latitude	-80.661422 Longitude			
BHL (NAD83):	39.942258 Latitude	-80.631421 Longitude			
KB Elev:	1,277 ft MSL	KB Height: 26 ft AGL	GL Elev:	1,251 ft MSL	

NO COAL VOID EXPECTED

PROD TOC @ 2,091' MD

TUBULAR DETAIL					
Casing String	Casing Size (in)	Weight (Min)	Grade (Min)	Planned Interval	
				From	To
Conductor	20	94.0 #	J-55	0'	136'
Surface	13.375	54.4 #	J-55	0'	476'
Intermediate/Coal	9.625	36.0 #	J-55	0'	2,091'
Production	5.5	20.0 #	P-110 HP	0'	28,970'

CEMENT DETAIL

	Sacks	Class	Density
Conductor	173	A	19.3
Surface	543	A	15.6
Intermediate	840	A	15.6
Production	5460	A	14.5-15.0

136' to 496'

Air/Mist

496' to 2,111'

Air/Mist

2,111' to 6,383'

Air/Mist

TD at 6,383'

6,383' to 7,754'

12.0-12.5 ppg

RECEIVED  
Office of Oil and Gas  
MAY 07 2025  
WV Department of  
Environmental Protection

7,754' to 28,970'

12.5-13.5 ppg

KOP at 6,383' MD

Freshwater Depth - 426' TVD

Coal Depth - 775' TVD

Saltwater Depth - 883' TVD

TVD - 6,508'

TMD - 28,970'

6,358' TVD Target Center

TD at 28,970' MD

6,508' TVD

Onondaga 6,528' TVD

LP at 7,754' MD

SHL Onondaga 6,378' TVD

Created by: Sebastian Ziaja on 04/14/2025

STRADER lower  
 4/17/2025

06/20/2025

4705102558

Reinbeau MSH 410H AOR

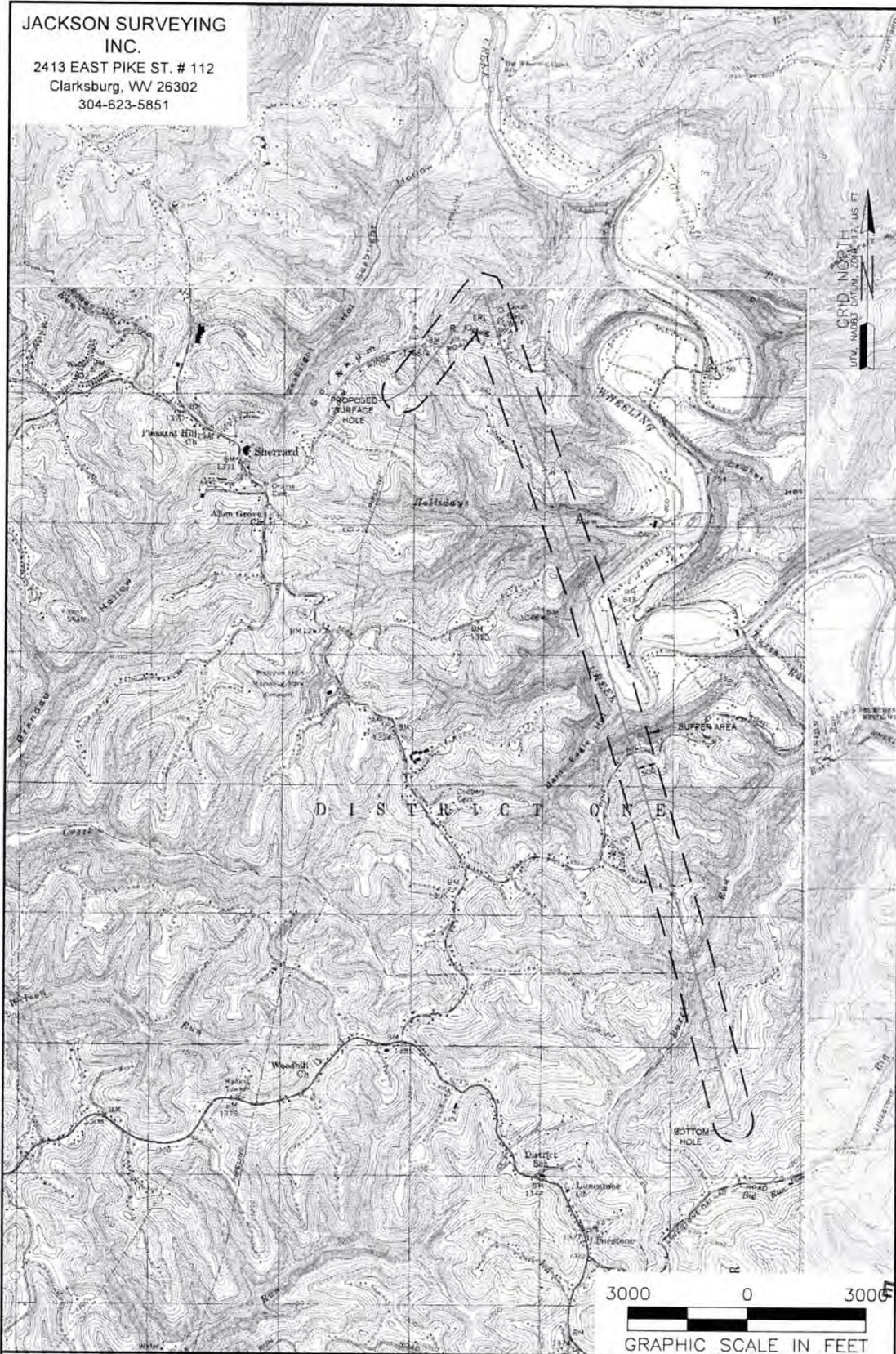
API	Operator	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones Not Perforated
051-30090	Unknown	Unknown	***	***	1,476'	Salt Sand	N/A
051-30430	Unknown	Unknown	***	***	Unknown	Unknown	Unknown
051-30014	Unknown	Unknown	***	***	1,549'	Salt Sand	N/A

RECEIVED  
Office of Oil and Gas  
MAY 07 2025  
WV Department of  
Environmental Protection

06/20/2025

**JACKSON SURVEYING  
INC.**

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


**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.
3. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

**LEGEND:**

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- ⊗ EXISTING / PRODUCING WELLHEAD
- LPL\* LANDING POINT LOCATION
- FLOOD PLAIN
- ACCESS ROAD
- - - PUBLIC ROAD
- - - ACCESS ROAD TO PREV. SITE
- === LEASE BOUNDARY
- - - PROPOSED PATH

**WELL OPERATOR:**

EXPAND OPERATING LLC

**ADDRESS:**

1300 FORT PIERPONT ROAD, SUITE 200 MORGANTOWN, WV 26508

**SURFACE OWNER:**
**WELL (FARM) NAME:**

DAVID REINBEAU MSH

**WELL #**

410H

**SERIAL #****COUNTY - CODE**

MARSHALL - 051

**DISTRICT;  
UNION****USGS 7 1/2 QUADRANGLE MAP NAME**

MOONSVILLE, WV

RECEIVED  
Office of Oil and Gas

MAY 07 2025

WV Department of  
Environmental Protection

06/20/2025

WW-9  
(4/16)

API Number 47 - 051 -  
Operator's Well No. David Reinbeau MSH 405H

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) Holliday Run of Wheeling Creek Quadrangle Moundsville

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

Will a pit be used? Yes ☐ No ☒

If so, please describe anticipated pit waste: \_\_\_\_\_

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

Proposed Disposal Method For Treated Pit Wastes:

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

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

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

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

Additives to be used in drilling medium? Attachment 3B

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

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

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

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

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

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

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

Company Official Signature *Brittany Woody*

Company Official (Typed Name) Brittany Woody

Company Official Title Staff Regulatory Specialist

RECEIVED  
Office of Oil and Gas

MAY 07 2025

WV Department of  
Environmental Protection

Subscribed and sworn before me this 25 day of March 2025

*Elizabeth Blankenship*

My commission expires 6/23/2029

Notary



06/20/2025

Expand Operating LLCProposed Revegetation Treatment: Acres Disturbed 18.42 Prevegetation pH \_\_\_\_\_Lime as determined by pH test min. 2 Tons/acre or to correct to pH 10.4Fertilizer type 10-20-20Fertilizer amount 600/500 lbs/acreMulch Hay/Straw Tons/acreSeed 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: \_\_\_\_\_

Comments: \_\_\_\_\_

RECEIVED  
Office of Oil and Gas

MAY 07 2025

WV Department of  
Environmental ProtectionTitle: Oil & Gas Inspector Date: \_\_\_\_\_

Field Reviewed? ( ) Yes ( ) No

See page 1

06/20/2025

## 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 Emulsifiers

Gilsonite

Calcium Carbonate

Friction Reducers

RECEIVED  
Office of Oil and Gas  
MAY 07 2025  
WV Department of  
Environmental Protection

06/20/2025

## Attachment 3A

## CLOSED LOOP SYSTEM

The closed loop system is designed to eliminate the use of reserve pits by providing a higher level of solids control processing and using steel pits for capture of drill cuttings. The cuttings are then processed to achieve landfill requirements before hauling to approved landfills. The liquids are processed to recycle into the active mud system or to transfer to onsite temporary storage as needed.

The closed loop system consists of a Shale Gas Separator, several banks of solids shakers, high speed centrifuges (1 or 2) used to process the fluid portion of the mud system to remove low gravity solids, low speed centrifuge used for barite recovery in highly weighted liquid drilling systems, a dewatering system (for air intervals and if freshwater mud systems are in use) used to further clean liquids by flocculation and additional mechanical separation, associated open top tanks for processing liquids and capturing solids for disposal, and transfer pumps to move fluids through the processes. There is an area adjacent to the cuttings tanks (Red Zone) where a track hole is utilized to recover the processed cuttings for loading into containers for haul off to an approved landfill site. (See attached schematic of a generic closed loop system layout)

Below are discussions of the processes used when drilling the air interval or liquids interval.

## AIR DRILLING INTERVALS

During air drilling operations, flow from the rig will pass down the flowline to the Shale Gas Separator where gas and liquids/solids are separated. Gas is sent to the flare scrubber tank and is flared at the flare stack. Solids and fluids pass across a shaker system to separate solids from liquids. Solids pass into the cuttings tanks where they are captured for drying and hauloff to an approved landfill site. Liquids fall into a shaker tank and are collected by a centrifugal pump to be processed by the high speed centrifuge to further separate liquids and solids. Solids are then dumped into the cuttings tank for drying and hauloff. Liquids are further processed to remove additional low gravity solids before being reused or transferred to onsite storage.

## LIQUIDS DRILLING (FRESHWATER, BRINE, SOBM)

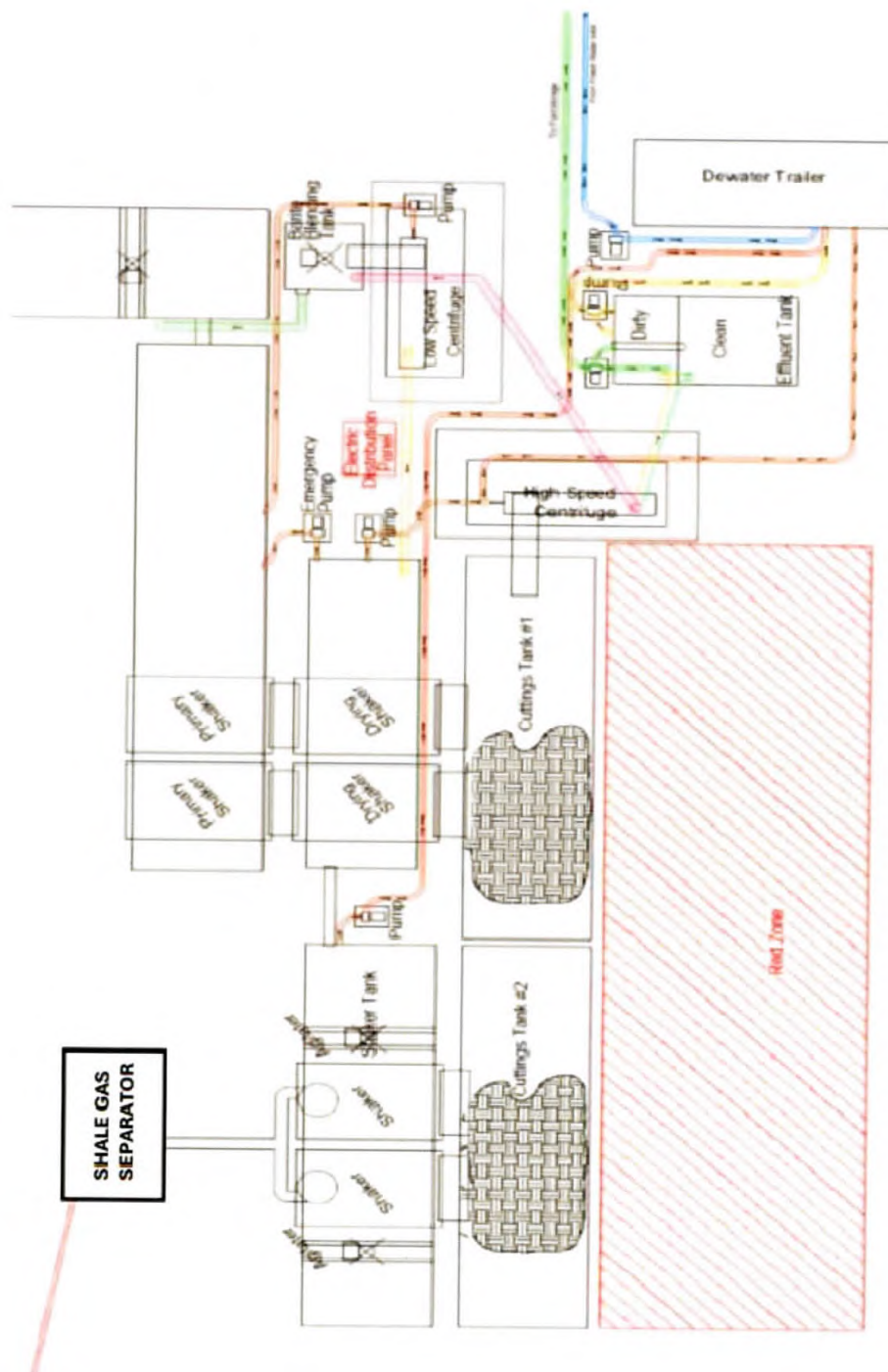
When drilling is converted to liquids drilling, the Shale Gas Separator and associated shaker tank are bypassed, and the liquids system is processed over the primary and drying shaker systems. Cuttings drop into the cuttings tank for additional processing. Any recoverable associated liquids attached to the cutting are recovered out the tank and processed through the low gravity (high speed) and barite recovery centrifuges (low speed) to further remove low gravity solids and to recover barite for reuse in the mud systems.

RECEIVED  
Office of Oil and Gas  
MAY 07 2025  
WV Department of  
Environmental Protection

3.10.2025  
06/20/2025

expand

# Solids Control Layout





## WVD Seeding Specification

To Order Seed contact Lyndsi Eddy Flippo office 570-996-4271 cell 501-269-5451 lyndsi\_eddy@swn.com (please allow 7 to 10 days for delivery)

NON-ORGANIC PROPERTIES		
Seed Mixture: ROW Mix	SWN Supplied	
Orchardgrass	40%	All legumes are innoculated at 5x normal rate
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%	
<p>Apply @ 100lbs per acre April 16th- Oct. 14th</p> <p>Apply @ 200lbs per acre Oct. 15th- April 15th PLUS 50lbs per acre of Winter Wheat</p>		
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 SWN supervision at the beginning of the project to allow time for special seed delivery.		

ORGANIC PROPERTIES		
Seed Mixture: SWN Production Organic Mix	SWN 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	SWN 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

RECEIVED  
Office of Oil and Gas  
MAY 07 2025  
WV Department of  
Environmental Protection

NO FERTILIZER OR LIME INSIDE WETLAND LIMITS

RECEIVED  
Office of Oil and Gas  
MAY 07 2025  
WV Department of  
Environmental Protection

**NO FERTILIZER OR LIME INSIDE WETLAND LIMITS**

06/20/2025

# MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN

4705102558



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

**API NO. 47-XXX-XXXXX**  
**WELL NAME: David Reinbeau MSH 410H**  
**Moundsville QUAD**  
**Union DISTRICT**  
**MARSHALL COUNTY, WEST VIRGINIA**

Submitted by:

Name: Brittany Woody

*Brittany Woody*

Date: 3/25/2025

Title: Staff Regulatory Specialist

Expand Energy

Approved by:

Name: STRADER LOWE

Date: 4/17/2025

Title: Oil & Gas Inspector

Approved by:

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Title: \_\_\_\_\_

RECEIVED  
Office of Oil and Gas

MAY 07 2025

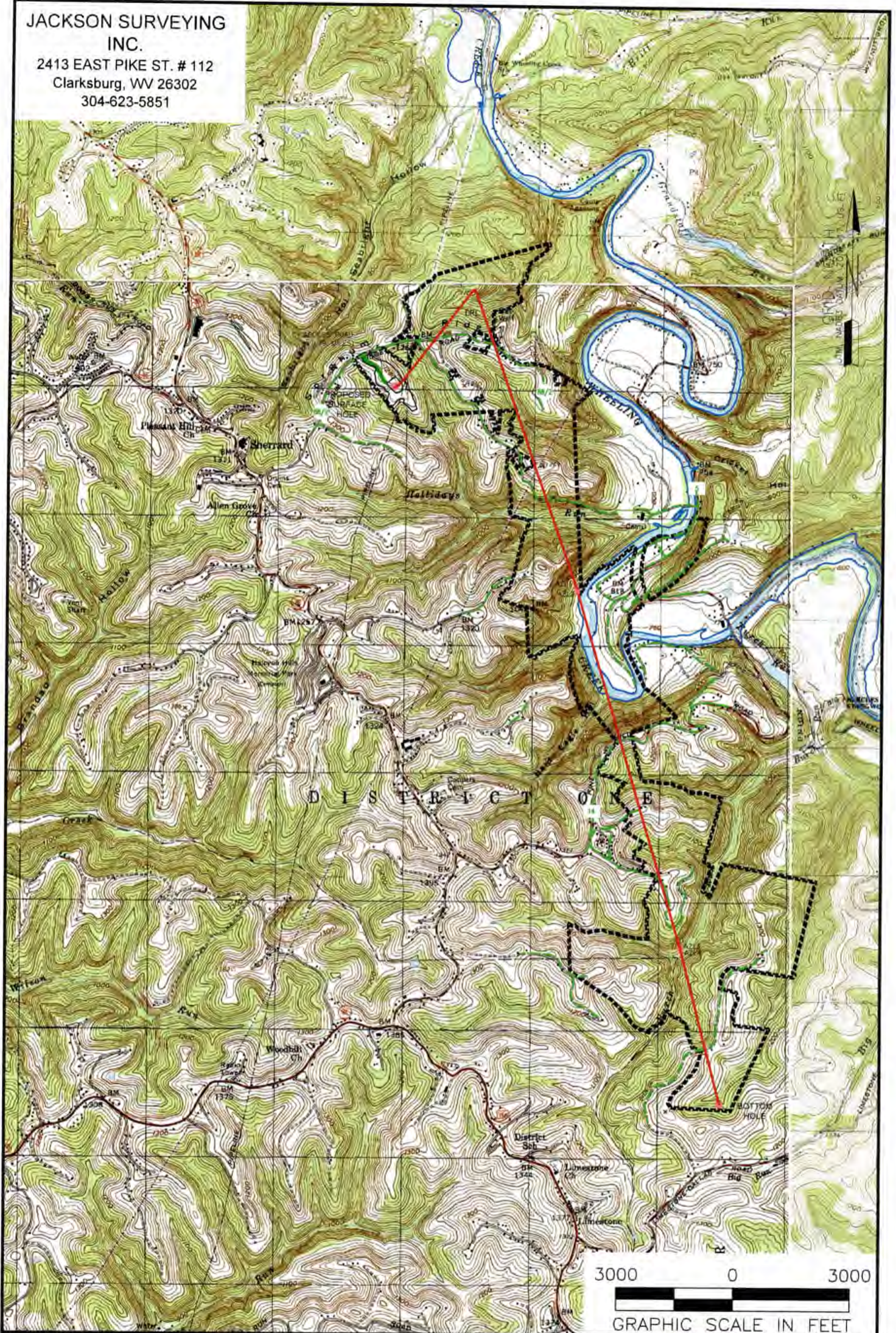
WV Department of  
Environmental Protection

Expand Energy – CONFIDENTIAL

06/20/2025

JACKSON SURVEYING  
INC.

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



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.

LEGEND:

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- EXISTING / PRODUCING WELLHEAD
- LPL\* LANDING POINT LOCATION
- FLOOD PLAIN

- ACCESS ROAD
- PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- LEASE BOUNDARY
- PROPOSED PATH

06/20/2025

WELL OPERATOR:  
EXPAND OPERATING LLC

ADDRESS:  
1300 FORT PIERPONT ROAD, SUITE 200 MORGANTOWN, WV 26508

SURFACE OWNER:

WELL (FARM) NAME:  
DAVID REINBEAU MSH

COUNTY - CODE  
MARSHALL - 051

USGS 7 1/2 QUADRANGLE MAP NAME  
MOUNDSVILLE, WV

WELL #  
410H

SERIAL #

DISTRICT;  
UNION

-SURFACE HOLE 10,204'

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

Latitude: 39°57'30" BOTTOM HOLE

1,800'

<b>SURFACE HOLE LOCATION (SHL):</b>
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,427,008.392
EASTING: 528,904.014
<b>LANDING POINT LOCATION (LPL):</b>
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,427,589.123
EASTING: 529,590.035
<b>BOTTOM HOLE LOCATION (BHL):</b>
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,421,413.457
EASTING: 531,488.324

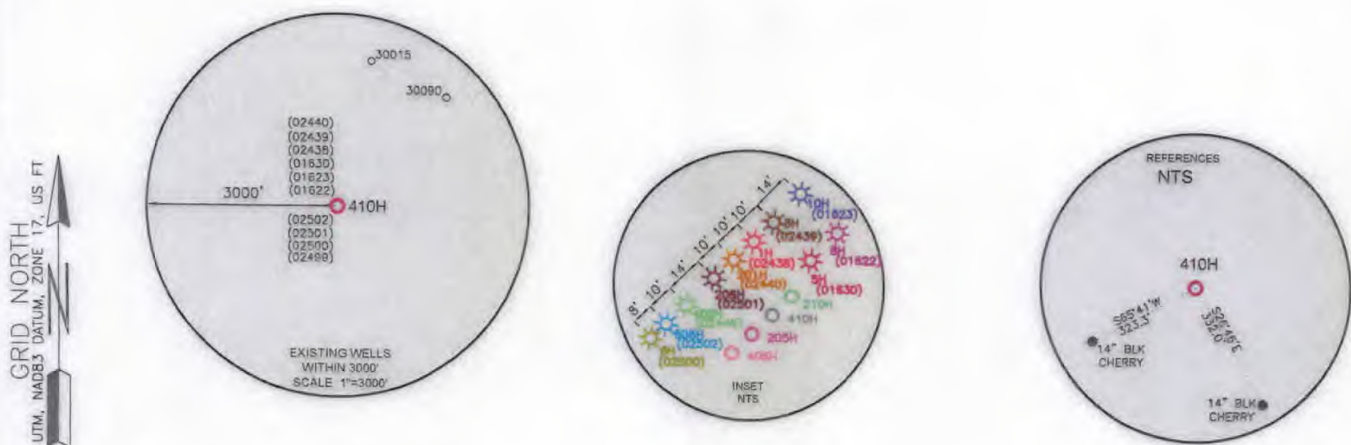


LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 19°12'25" W	1072.64'	SHL TO LANDMARK	FENCE CORNER
L2	N 58°50'56" W	1298.27'	SHL TO LANDMARK	FENCE CORNER
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	N 49°45'05" E	2948.87'	3887.20'	SHL TO LPL
L9	S 17°54'20" E	147.18'	147.19'	AZL7 TO AZL8
L11	S 15°26'47" E	100.62'	100.63'	AZL9 TO AZL11



Longitude: 80° 37' 30" |-----| BOTTOM HOLE 5,856'

Longitude: 80° 37' 30" SURFACE HOLE 2638' |-----|



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 REALTY 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



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)

DAVID REINBEAU MSH

OPERATOR'S WELL #: 410H








API WELL #:	47	051	02558
	STATE	COUNTY	PERMIT

WELL TYPE: OIL ☐ WASTE DISPOSAL ☐ PRODUCTION ☒ DEEP ☐ GAS ☒ LIQUID INJECTION ☐ STORAGE ☐ SHALLOW ☒  
WATERSHED: HOLLIDAYS RUN OF WHEELING CREEK (HUC-10) ELEVATION: 1250.7'  
DISTRICT: UNION COUNTY: MARSHALL QUADRANGLE: MOUNDSVILLE, WV  
SURFACE OWNER: SHELLY A. & DAVID W. REINBEAU ACREAGE: ±50.88  
OIL & GAS ROYALTY OWNER: SHELLY A. & DAVID W. REINBEAU ACREAGE: ±50.88  
DRILL ☒ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☒ PLUG OFF OLD FORMATION ☐ PERFORATE NEW FORMATION ☐  
CONVERT ☐ PLUG & ABANDON ☐ CLEAN OUT & REPLUG ☐ OTHER CHANGE ☐ (SPECIFY) \_\_\_\_\_  
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6508 TMD 28.970 TMD

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

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

**LEGEND:**

	PROPOSED SURFACE HOLE / BOTTOM HOLE		SURVEYED BOUNDARY
	EXISTING / PRODUCING WELLHEAD		DRILLING UNIT
	LPL LANDING POINT LOCATION		LEASE BOUNDARY
	EXISTING WATER WELL		PROPOSED PATH
	EXISTING SPRING		

REVISIONS:	DATE: 04-17-2025
△ ADDED SURFACE OWNER AND TRACT LINES TO DETAIL A & B. CORRECTED WELL BORE TRACT IN DETAIL B TO TRACT 30 06-09-2025	DRAWN BY: N. MANO SCALE: 1" = 2000'
	DRAWING NO:
	WELL LOCATION PLAT

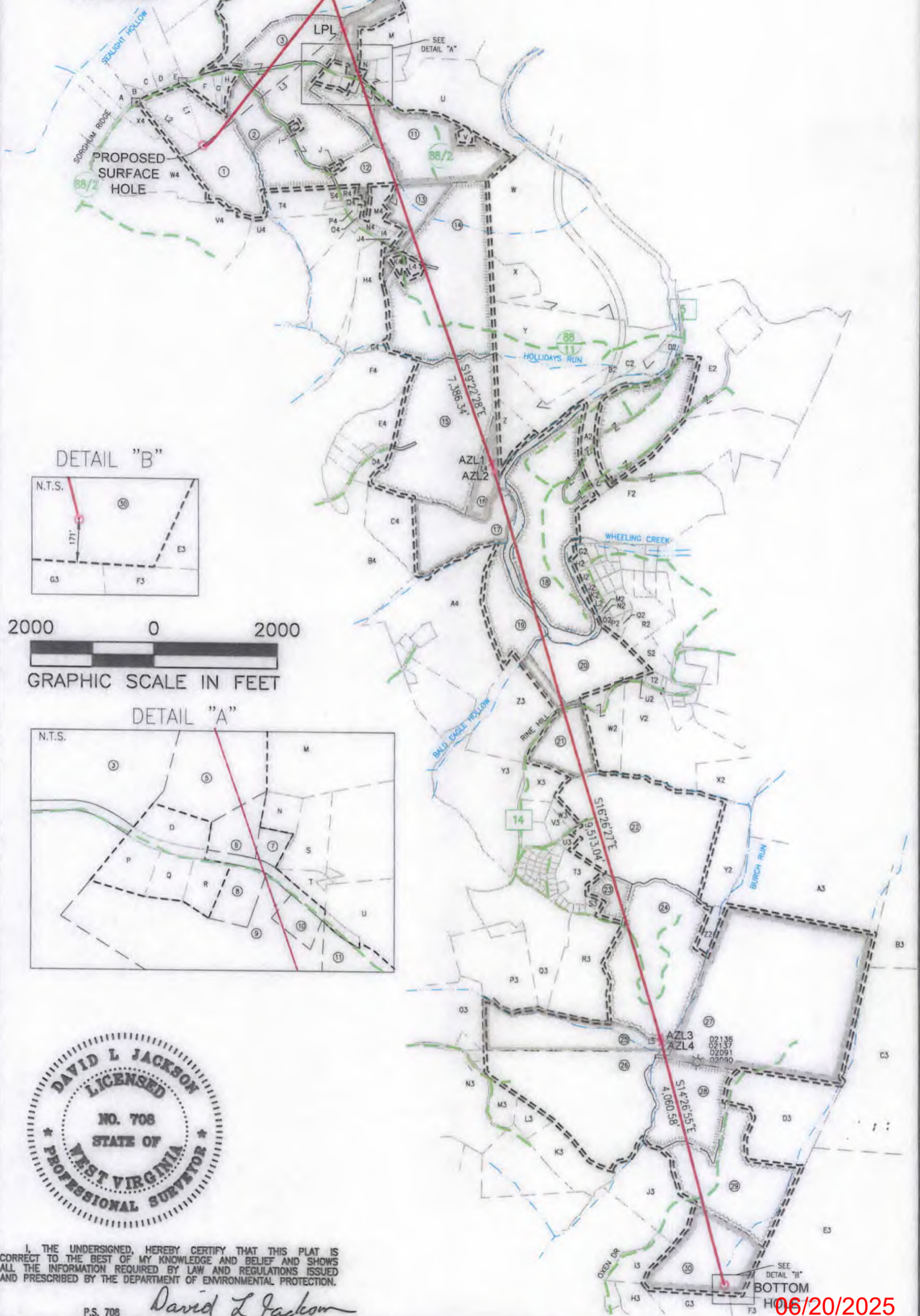
# JACKSON SURVEYING

INC.

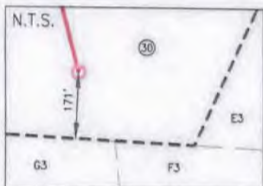
2413 EAST PIKE ST. # 112

Clarksburg, WV 26302

304-623-5851



DETAIL "B"



2000 0 2000

GRAPHIC SCALE IN FEET

DETAIL "A"



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*

## REVISIONS:

△ ADDED SURFACE OWNER AND TRACT LINES TO DETAIL A & B. CORRECTED WELL BORE TRACT IN DETAIL B TO TRACT 30 06-09-2025

## COMPANY:

**expand**

## OPERATOR'S

DAVID REINBEAU MSH

## WELL #:

410H

## DISTRICT:

UNION

## COUNTY:

MARSHALL

## STATE:

WV

DATE: 04-17-2025

DRAWN BY: N. MANO


SCALE: N/A

DRAWING NO:

WELL LOCATION PLAT 2

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


06/20/2025

REVISIONS:	COMPANY:			
△ ADDED SURFACE OWNER AND TRACT LINES TO DETAIL A & B. CORRECTED WELL BORE TRACT IN DETAIL B TO TRACT 30 06-09-2025				
	OPERATOR'S			DATE: 04-17-2025
	WELL #:			DRAWN BY: N. MANO
	DISTRICT:			SCALE: N/A
	UNION	COUNTY:	STATE:	DRAWING NO:
		MARSHALL	WV	WELL LOCATION PLAT 3

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

WELL BORE TRACTS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	REINBEAU SHELLY A & DAVID W (S)/(R)	13-8-29
TRACT	SURFACE OWNER (S)	TAX PARCEL
2	KOSEM DEBBIE & KARL (S)	13-8-32
3	CUSTER RITA M ET AL (S)	13-8-1
4	BONACCI FRANK A (S)	13-3-5.5
5	ARCHEY HEATHER M (S)	13-3-12.12
6	BLACK DONNA MARIE & WILLIAM RANDALL ARCHEY II (S)	13-3-12.5
7	LILLEY DEANNA KAY BLACK ET VIR (S)	13-3-12.6
8	MONTGOMERY JANET S (S)	13-3-12.4
9	BLACK BONNIE J TRUST (S)	13-3-12
10	BLACK BONNIE J TRUST (S)	13-3-12.2
11	BLACK BONNIE J TRUST (S)	13-8-2
12	ROUSH MATTHEW G (S)	13-8-34
13	KINNEER VERNON A JR ET AL (S)	13-8-7
14	KINNEER VERNON A JR & JAMIE (S)	13-8-6
15	CUNNINGHAM GEORGE A (S)	13-9-3
16	DEBOLT JANICE (S)	13-9-2
17	CUNNINGHAM BESSIE JANE (S)	13-9-11
18	MEADOW LAKE CLUB CO (S)	12-10-2
19	MARSHALL LAND LLC (S)	13-9-12
20	MCWHORTER WILLIAM L III & CRYSTAL A (S)	13-9-13
21	MCWHORTER WILLIAM L III & CRYSTAL A (S)	13-9-25
22	NICHOLSON BRIDGET A (S)	13-14-18
23	BURRALL KANDACE (S)	13-14-17
24	HEWITT PAUL (S)	13-14-22
25	GRAY CAROLYN L (S)	13-14-24.2
26	SMITH RICHARD A (S)	14-5-27
27	EQT TGHIL EXPLORATION LLC (S)	15-2-16
28	PAYNE NORMA C ET AL (S)	15-2-17.4
29	ECO-VRINDABAN INC (S)	15-2-17.1
30	ECO-VRINDABAN INC (S)	15-2-17.2

06/20/2025

REVISIONS:	COMPANY:		
△ ADDED SURFACE OWNER AND TRACT LINES TO DETAIL A & B. CORRECTED WELL BORE TRACT IN DETAIL B TO TRACT 30 06-09-2025			
	OPERATOR'S DAVID REINBEAU MSH		DATE: 04-17-2025
	WELL #: 410H		DRAWN BY: N. MANO
	DISTRICT: UNION	COUNTY: MARSHALL	STATE: WV
			SCALE: N/A
			DRAWING NO:
			WELL LOCATION PLAT 3

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

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	BOWMAN MICHAEL J & CONSTANCE G	13-7-21
B	ALEXANDER LORRAINE - TOD	13-7-20
C	ALEXANDER LORRAINE - TOD	13-7-18.1
D	ALEXANDER LORRAINE - TOD	13-7-18
E	SAMPSON EDITH VIRGINIA EST	13-7-19
F	NARRISH KEVIN	13-8-30
G	SOUTH CHRISTOPHER C	13-8-31
H	KOSTELECKY JOSEPH J JR & CAROLYN - TOD	13-8-31.1
I	BENSON WILLIAM A & COLLEEN V	13-8-33
J	KNOX VERNON GLEN ET UX	13-8-35
K	BONACCI FRANK A	13-3-5.5
L	HART JOHN J & RENEE A	13-3-11
M	ULLEY DEANNA BLACK & MICHAEL	13-3-12.11
N	LILLEY DEANNA K & MICHAEL C	13-3-12.3
O	ARCHEY OLIVIA V	13-3-12.1
P	BLACK KENNETH WILLIAM - TOD	13-3-12.9
Q	BLACK KENNETH W	13-3-12.10
R	MONTGOMERY JANET	13-3-12.13
S	BLACK TERRY J	13-3-12.8
T	BLACK TERRY J	13-3-12.7
U	HART JOHN J & RENEE A	13-8-2.1
V	BLACK KENNETH W	13-8-2.2
W	HOGG THOMAS G & DONN W ET AL	13-8-3
X	KINNEER VERNON A JR ET AL	13-8-5
Y	OHIO COUNTY COAL RESOURCES INC	13-8-3.1
Z	DEBOLT JANICE	13-9-1
A2	MEADOW LAKE CLUB CO	12-10-3
B2	OHIO COUNTY COAL RESOURCES INC	13-8-4.1
C2	OHIO COUNTY COAL RESOURCES INC	13-8-3.2
D2	CONSOLIDATION COAL COMPANY; MURRAY ENERGY C/O LAND DEPT	12-10-1.3
E2	FISH PATRICIA A & FREDERICK W	12-10-1.2
F2	WILSON RUSSELL ROBERT II & ZUREK CHRISTINE	12-10-4
G2	JUREK EDWARD PAUL JR & TAMELA S	13-9A-15
H2	WEST JONATHAN SCOTT	13-9A-13
I2	REAM FRED M & JUDITH P	13-9A-12
J2	KIRCHNER GREGORY A & RYAN T	13-9A-4
K2	WHITE GLENN E & MARTHA R - TOD	13-9A-4.1
L2	HUTCHISON J ROBERT	13-9A-3
M2	NEIDHARDT CHRISTOPHER E	13-9A-2
N2	NEIDHARDT CHRISTOPHER E	13-9A-2.1
O2	TEUFEL JENNIFER	13-9A-1
P2	TEUFEL JENNIFER	13-9A-36
Q2	TEUFEL JENNIFER	13-9A-35
R2	TEUFEL JENNIFER	13-9-16
S2	RICHARDSON CHRIS A ET UX	13-9-16.5
T2	GARDNER ZACHARY R & KUTIS SHANNA	13-9-23.4
U2	GARDNER ZACHARY R & KUTIS SHANNA	13-9-23.1
V2	BERTRAM LUKE D & ALISON M	13-9-23

\*Highlighted Parcels may be impacted during drilled.

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
W2	MCWHORTER WILLIAM L III & CRYSTAL A	13-9-24
X2	BERTRAM LUKE D & ALISON M	13-14-19
Y2	EQT TGH L EXPLORATION LLC	13-14-20
Z2	EQT TGH L EXPLORATION LLC	13-14-21
A3	EQT TGH L EXPLORATION LLC	15-2-1
B3	ISKCON - NEW MATHURA VRINDABAN	15-2-2
C3	SNYDER HARRY BRENT	15-2-15
D3	ECO-VRINDABAN INC	15-2-17.3
E3	SNYDER HARRY B ET UX	15-2-14
F3	LOGSDON KEITH A & ROBIN S	15-7-4
G3	LOGSDON JUDITH A - TOD	15-7-3
H3	MEBERG MARY P - TOD	15-7-2.2
I3	HUNT T DAVID	15-2-18.1
J3	HUNT T DAVID	15-2-17
K3	BLED SOE BILLY J JR & CLARA M	14-5-26.4
L3	BLED SOE DAVID R & KIMBERLY K	14-5-26.3
M3	BLED SOE DAVID R & KIMBERLY K	14-5-26.1
N3	SMITH EDWARD LEE II	14-5-26
O3	FOSTER CHARLES S ET UX	13-14-38.1
P3	GRAY CAROLYN L	13-14-24
Q3	ROGERSON JOHN A JR	13-14-26
R3	ROGERSON MICHAEL A	13-14-23
S3	BLAND WILLIAM T JR & TERESA L	13-14-17.2
T3	BLAND WILLIAM T JR & TERESA L	13-14-17.1
U3	BLAND WILLIAM THOMAS JR ET UX	13-14-18.2
V3	NORRIS THOMAS E JR & LINDA L	13-14-18.1
W3	NORRIS THOMAS E JR & LINDA L	13-14-18.3
X3	MCWHORTER WILLIAM L JR & DEBRA K - TOD	13-9-25.1
Y3	THOMPSON MICHAEL C & CRYSTAL M	13-14-13
Z3	MCWHORTER WILLIAM L III & CRYSTAL A	13-9-25.2
A4	SHERMAN FAMILY TRUST	13-9-26
B4	EDISON MARK C ET UX - TOD	13-9-9
C4	EDISON MARK C ET UX - TOD	13-9-10
D4	LOY CHARLES E SR - TOD	13-9-4
E4	CUNNINGHAM GEORGE A	13-9-5
F4	ROCKY PEARL FARM LLC	13-9-6
G4	CONNER AMBER D & DAVID HANES JR	13-8-12
H4	KINNEER JAMIE ET UX	13-8-7.9
I4	MYERS CARL V & DESIREE L	13-8-7.4
J4	MYERS CARL V & DESIREE L	13-8-7.10
K4	CONSOLIDATION COAL COMPANY; MURRAY ENERGY C/O LAND DEPT	13-8-6.1
L4	KINNEER JAMIE ET UX	13-8-6.2
M4	MYERS CARL V & DESIREE L	13-8-7.8
N4	FISHER CHARLES B	13-8-7.5
O4	FISHER CHARLES	13-8-7.6
P4	SHEPHERD MARILYN S	13-8-7.3
Q4	SHEPHERD KENNETH MICHAEL	13-8-7.2
R4	SHEPHERD KENNETH MICHAEL	13-8-7.1
S4	TAYLOR DAVID R ET UX	13-8-9
T4	LIBERTY JOHN ET UX	13-8-10
U4	MCCOMBS JOHN A SR, THOMAS E & BETH	13-8-11
V4	MCCOMBS JOHN A SR, THOMAS E & BETH	13-8-26
W4	REINBEAU SHELLEY A & DAVID W	13-8-27
X4	BOWMAN MICHAEL ET UX	13-8-28

06/20/2025

REVISIONS:  
A ADDED SURFACE OWNER AND TRACT LINES TO  
DETAIL A & B. CORRECTED WELL BORE TRACT  
IN DETAIL B TO TRACT 30 06-09-2025

COMPANY:



OPERATOR'S DAVID REINBEAU MSH  
WELL #: 410H

DATE: 04-17-2025

DISTRICT:  
UNION

COUNTY:  
MARSHALL

STATE:  
WV

DRAWN BY: N. MANO

SCALE: N/A

DRAWING NO:  
WELL LOCATION PLAT 4

EXHIBIT "A"						
David Robinson MSH 410H 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 NOTIFIED BY EXPAND OPERATING LLC
1	13-0008-0029-0000	Shelly A. Reinbeau and David W. Reinbeau, her husband, joint tenants, with right of survivorship	Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-6	688/424 33/110 "See Letter"	0.00%
2	13-0008-0032-0000	Ekanor Ley, single  Lois Arthey, widow  Eugene Ley and Carol A. Ley, his wife  William A. Ley, single	Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-6   At least 1/8th per WV Code 22-6-6   At least 1/8th per WV Code 22-6-6	704/145 33/110 "See Letter" 704/100A 33/110 "See Letter" 704/148 33/110 "See Letter" 704/151 33/110 "See Letter"	0.00%
3	13-0008-0001-0000	Ekanor Ley, single  Eugene Ley and Carol A. Ley, his wife  Lois Arthey, widow  William A. Ley, single	Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-6   At least 1/8th per WV Code 22-6-6   At least 1/8th per WV Code 22-6-6	678/360 33/110 "See Letter" 678/47 33/110 "See Letter" 678/53 33/110 "See Letter"	0.00%
4	13-0003-0005-0005	Brian F. Bonacci, a single man  Frank A. Bonacci, a married man dealing in his sole and separate property  Orville Young L.L.C.	Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-6   At least 1/8th per WV Code 22-6-6   At least 1/8th per WV Code 22-6-6	704/390 33/110 "See Letter" 678/23 33/110 "See Letter" 668/794 33/110 "See Letter"	0.00%
5	13-0003-0012-0012	William L. Arthey and Donna M. Arthey, husband and wife	Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-6	677/33 33/110 "See Letter"	0.00%
6	13-0003-0012-0005	Mildred Black, a Widow	Tollenergy Holdings, LLC Expand Operating, LLC AB Resources LLC Chevron U.S.A. Inc. Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-6	655/538 19623 756/397 30/532 33/110 "See Letter"	0.00%
7	13-0003-0012-0006	Deanna Kay Black Lilley and Michael C. Lilley, Wife and Husband	Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-6	834/152 33/110 "See Letter"	0.00%
8	13-0001-0012-0004	Jerry R. Montgomery and Janet S. Montgomery, his wife	Tollenergy Holdings, LLC Expand Operating, LLC NPAR, LLC Chevron U.S.A. Inc. Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-6	709/608 24/180 756/332 30/532 33/110 "See Letter"	0.00%
9	13-0001-0012-0000	Kenneth E. Black and Bonnie Jeanette Black, his wife	Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-6	830/167 33/110 "See Letter"	0.00%
10	13-0001-0012-0002	Kenneth E. Black and Bonnie Jeanette Black, his wife	Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-6	830/167 33/110 "See Letter"	0.00%
11	13-0008-0002-0000	Kenneth Eugene Black and Bonnie Jeanette Black, his wife  Mildred Louise Black a/k/a Mildred Louis Black, widow	Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-6   At least 1/8th per WV Code 22-6-6	774/30 33/110 "See Letter" 775/98 33/110 "See Letter"	0.00%
12	13-0008-0034-0000	Kathleen A. McGlaughlin, widow, agent (Life Tenant), William M. McGlaughlin, married and doing business in his sole and separate right (Remainderman), and Donna K. Whitman, married and doing business in her sole and separate right (Remainderman)	Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-6	688/423 33/110 "See Letter"	0.00%
13	13-0008-0007-0000	Vernon A. Kinnear, Jr. and Carla C. Kinnear, husband and wife, and Jamie Kinnear and Rebecca L. Kinnear, husband and wife	Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-6	688/560 33/110 "See Letter"	0.00%
14	13-0008-0006-0000	Vernon A. Kinnear, Jr. and Carla C. Kinnear, husband and wife, and Jamie Kinnear and Rebecca L. Kinnear, husband and wife	Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-6	681/571 33/110 "See Letter"	0.00%
15	13-0009-0003-0000	George A. Cunningham and Katherine A. Cunningham, his wife	Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-6	678/256 33/110 "See Letter"	0.00%
16	13-0009-0002-0000	Janice F. Debolt, a/k/a Janice Debolt, widow	Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-6	692/490 33/110 "See Letter"	0.00%
17	13-0009-0011-0000	Bessie Jane Cunningham a/k/a Bessie J. Cunningham, widow	Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-6	680/209 33/110 "See Letter"	0.00%
18	12-0010-0002-0000	Meadow Lake Club Company	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-6	940/77 48/263 "See Letter"	0.00%
19	13-0009-0012-0000	Marshall Land, LLC, a West Virginia Limited Liability Company	Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-6	837/272 33/110 "See Letter"	0.00%
20	13-0009-0013-0000	Howard S. McWhorter, a/k/a Howard McWhorter, widower  Lorraine June McWhorter, widow	Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-6   At least 1/8th per WV Code 22-6-6	705/231 33/110 "See Letter" 705/231 33/110 "See Letter"	0.00%
21	13-0009-0025-0000	Howard S. McWhorter, a/k/a Howard McWhorter, widower  Lorraine June McWhorter, widow	Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-6   At least 1/8th per WV Code 22-6-6	705/231 33/110 "See Letter" 705/231 33/110 "See Letter"	0.00%
22	13-0014-0018-0000	Gary A. Nicholson and Lucinda K. Nicholson, his wife	Tollenergy Holdings, LLC Expand Operating, LLC NPAR, LLC Chevron U.S.A. Inc. Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-6	688/108 23/74 756/332 30/532 33/110 "See Letter"	0.00%
23	13-0014-0017-0000	Olga Platts, a widow  Loretta Comp, single  Betty Fisher, single	Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-6   At least 1/8th per WV Code 22-6-6   At least 1/8th per WV Code 22-6-6	722/362 33/110 "See Letter" 709/311 33/110 "See Letter" 749/316 33/110 "See Letter"	0.00%
24	13-0014-0022-0000	Paul Hewitt, a married man doing business in his sole and separate property	Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-6	685/538 33/110 "See Letter"	0.00%
25	13-0014-0024-0002	Russell Edward Platts, single	Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-6	685/43 33/110 "See Letter"	0.00%
26	14-0005-0027-0000	Richard A. Smith	Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-6	1134/396 33/110 "See Letter"	0.00%
27	15-0002-0016-0000	APP Minerals LLC	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-6	964/368 1202/119 "See Letter"	0.00%
28	15-0002-0017-0004	Norma C. Payne & Eric G. Dailey	SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-6	1211/438 33/110 "See Letter"	0.00%
29	15-0002-0017-0001	Resource Minerals Headwater L.P.	SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-6	1190/312 33/110 "See Letter"	0.00%
30	15-0002-0017-0002	Resource Minerals Headwater L.P.	SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-6	1190/312 33/110 "See Letter"	0.00%
N	13-0003-0012-0003	Deanna Kay Black Lilley and Michael C. Lilley, Wife and Husband	Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-6	834/152 33/110 "See Letter"	0.00%
S	13-0003-0012-0008	Terry J. Black, a single woman	Tollenergy Holdings, LLC Expand Operating, LLC NPAR, LLC Chevron U.S.A. Inc. Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-6	709/578 24/180 756/332 30/532 33/110 "See Letter"	0.00%
T	13-0003-0012-0007	Mildred Black, a Widow	Tollenergy Holdings, LLC Expand Operating, LLC AB Resources LLC Chevron U.S.A. Inc. Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-6	655/538 19623 756/397 30/532 33/110 "See Letter"	0.00%
L4	13-0008-0006-0002	Jamie Kinnear and Rebecca Kinnear, his wife	Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-6	688/538 33/110 "See Letter"	0.00%
M4	13-0008-0007-0008	Vernon A. Kinnear, Sr., widower	Cheapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-6	682/80 33/110 "See Letter"	0.00%
*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.						
*Potentially Impacted Parcels - Parcels that may be impacted during drilling.						
*Horizontal well unit utilization. Subject to enforcement along with the West Virginia Oil and Gas Commission.						
END OF EXHIBIT "A"						



SWN Production Company, LLC  
P.O. Box 12358  
Spring, Texas 77301-2358  
www.swn.com

June 13, 2025

Mr. Charles Brewer  
Assistant Chief  
Office of Oil and Gas  
WVDEP  
601 57th St SE,  
Charleston, WV 25304

Dear Mr. Brewer:

Effective as of October 1, 2024, Expand Operating LLC ("EXEO") and SWN Production Company, LLC ("SWNPC"), both being subsidiaries of Expand Energy Corporation, entered into a Management Services Agreement whereby SWNPC authorized EXEO to perform and act as its agent for the purpose of performing certain management services (the "Agreement"). Such Agreement was provided to your office prior to this letter. By entering into the Agreement, it was the intent of SWNPC (i) to grant EXEO the right to extract, produce and market SWNPC's oil and gas, among other rights, and (ii) that the Agreement satisfy the requirements of West Virginia Code §22-6-8(c).

Best regards,

A handwritten signature in black ink, appearing to read "David Wildes".

David Wildes  
Managing Counsel – Southwest Appalachia  
SWN Production Company, LLC

06/20/2025

## MANAGEMENT SERVICES AGREEMENT

This MANAGEMENT SERVICES AGREEMENT (this “**Agreement**”) is entered into on January 1, 2025, but made effective as of October 1, 2024 (the “**Effective Date**”), by and among Expand Operating LLC, an Oklahoma limited liability company (the “**Manager**”), SWN Production Company, LLC, a Texas limited liability company (“**SWN Production**”), SWN Production (Louisiana), LLC, a Texas limited liability company (“**SWN Louisiana**”), SWN Midstream Services Company, LLC, a Texas limited liability company (“**SWN Midstream**”), SWN International, LLC, a Delaware limited liability company (“**SWN International**”), A.W. Realty Company, LLC, a Delaware limited liability company (“**A.W.**”), Expand Water Resources Company LLC, a Texas limited liability company (“**Expand Water**”), SWN E&P Services, LLC, a Texas limited liability company (“**SWN E&P**”), and together with SWN Production, SWN Louisiana, SWN Midstream, SWN International, A.W. and Expand Water, the “**Companies**”), and the undersigned direct and indirect subsidiaries of the Companies (each, individually, a “**Subsidiary**”, and, collectively, the “**Subsidiaries**” and, together with the Companies, the “**Company Group**”). Manager, the Companies and each Subsidiary may be referred to herein, individually, as a “**Party**” and, collectively, as the “**Parties**.”

### RECITALS

WHEREAS, the Company Group collectively owns and operates certain oil and gas, midstream and other properties and businesses;

WHEREAS, the Company Group desires to have the Manager perform, and the Manager desires to perform for and on behalf of the Company Group, the Management Services as more fully set forth herein and in accordance with the terms and conditions hereof; and

WHEREAS, the Company Group desires to formally engage the Manager as its agent for the purpose of performing the Management Services;

NOW, THEREFORE, in consideration of the premises and the mutual covenants, conditions and agreements contained herein and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties hereby agree as follows:

1. Definitions and References. Capitalized terms used throughout this Agreement including the Recitals above and not defined in *Section 1.1* below shall have the respective meanings ascribed to them elsewhere in this Agreement.

1.1. Definitions. The following terms have the respective meanings given in this *Section 1.1* or in the Section referred to below:

“**Affiliate**” means, with respect to any Person, any other Person that directly or indirectly (through one or more intermediaries or otherwise) Controls, is Controlled by, or is under common Control with the first Person, *provided*, however, the Parties specifically acknowledge and agree that for purposes of this Agreement, (a) the Manager will not be deemed to be an Affiliate of any member of the Company

4705102558



April 14, 2025

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

**RE:** Expand's proposed New Well: David Reinbeau MSH 410H in Marshall County, West Virginia, Drilling under Black Hill Road, Sorghum Ridge Road, Aspen Drive, Pine Hill Road, Pine Knoll Acres, Majestic Drive, and Oxen Drive.

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 Black Hill Road, Sorghum Ridge Road, Aspen Drive, Pine Hill Road, Pine Knoll Acres, Majestic Drive, and Oxen Drive. Please be advised that Expand has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Respectfully,

**Expand Operating LLC**

A handwritten signature in black ink, appearing to read "Gavin Nadeau", written over a light blue horizontal line.

Gavin Nadeau  
Staff Landman

RECEIVED  
Office of Oil and Gas  
MAY 07 2025  
WV Department of  
Environmental Protection

06/20/2025

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

Date of Notice Certification: 5/6

API No. 47- 051 -  
Operator's Well No. David Reinbeau MSH 410H  
Well Pad Name: David Reinbeau MSH

**Notice has been given:**

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

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>528,904.014</u>
County:	<u>051-Marshall</u>		Northing:	<u>4,427,008.392</u>
District:	<u>Union</u>	Public Road Access:	<u>Sorghum Ridge Road</u>	
Quadrangle:	<u>Moundsville</u>	Generally used farm name:	<u>David Reinbeau MSH</u>	
Watershed:	<u>Hollidays Run of Wheeling Creek</u>			

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

<p>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:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 150px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p style="text-align: center;"><b>OOG OFFICE USE ONLY</b></p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED</p>
--	---

RECEIVED  
Office of Oil and Gas  
**MAY 07 2025**  
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.

06/20/2025

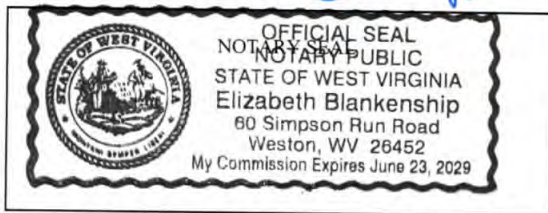
4705102558

**Certification of Notice is hereby given:**

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

Well Operator: Expand Operating LLC  
By: Brittany Woody  
Its: Staff Regulatory Specialist  
Telephone: 304-884-1610

Address: 1300 Fort Pierpont Dr., Suite 201  
Morgantown, WV 26508  
Facsimile: 304-884-1690  
Email: Brittany.Woody@expandenergy.com



Subscribed and sworn before me this 25 day of March 2025  
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](mailto:depprivacyofficer@wv.gov).

RECEIVED  
Office of Oil and Gas  
MAY 07 2025  
WV Department of  
Environmental Protection

06/20/2025

WW-6A  
(9-13)

API NO. 4705102558  
OPERATOR WELL NO. David Reinbeau MSH 410H  
Well Pad Name: David Reinbeau 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:** 5/16 **Date Permit Application Filed:** 5/16

**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: Shelley & David Reinbeau  
Address: 651 Sorghum Ridge Road  
Wheeling, WV 26003

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  
Address: 46226 National Road  
St. Clairsville OH 43950

☐ 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

RECEIVED  
Office of Oil and Gas  
MAY 07 2025  
WV Department of  
Environmental Protection

06/20/2025

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:** 5/6 **Date Permit Application Filed:** 5/6

**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: C/O Leatherwood Inc  
Address: 1000 Consol Energy Drive  
Canonsburg PA 15317

☐ COAL OPERATOR

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

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

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

\*Please attach additional forms if necessary

RECEIVED  
Office of Oil and Gas  
MAY 07 2025  
WV Department of  
Environmental Protection

06/20/2025

4705102558

Attachment 13A

OWNER

REINBEAU SHELLY A & DAVID W ✓

MCCOMBS JOHN A SR, THOMAS E & BETH ✓

Parcel ID

25-13-0008-0029-0000

25-13-0008-0026-0000

Address

651 Sorghum Ridge Road

423 SORGHUM RIDGE RD

City

Wheeling WV

Wheeling WV

State

RECEIVED  
Office of Oil and Gas

MAY 07 2025

WV Department of  
Environmental Protection

06/20/2025

**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. § 35-5.7.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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.doe.wv.gov/oil-and-gas/pages/default.aspx](http://www.doe.wv.gov/oil-and-gas/pages/default.aspx).

RECEIVED  
MAY 07 2025  
WV Department of  
Environmental Protection

**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

06/20/2025

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 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

RECEIVED  
Office of Oil and Gas  
MAY 07 2025  
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.**

06/20/2025

**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  
MAY 07 2025  
WV Department of  
Environmental Protection

06/20/2025

WW-6A  
(8-13)

4705102553

API NO. 47- 051 -  
OPERATOR WELL NO. David Reinbeau MSH 405H  
Well Pad Name: David Reinbeau MSH

**Notice is hereby given by:**

Well Operator: Expand Operating LLC

Telephone: 304-884-1610

Email: [Brittany.Woody@expandenergy.com](mailto:Brittany.Woody@expandenergy.com)

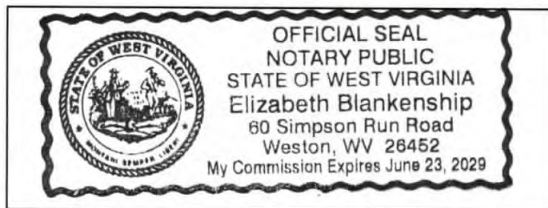
Address: 1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508

Facsimile: 304-884-1690

**Oil and Gas Privacy Notice:**

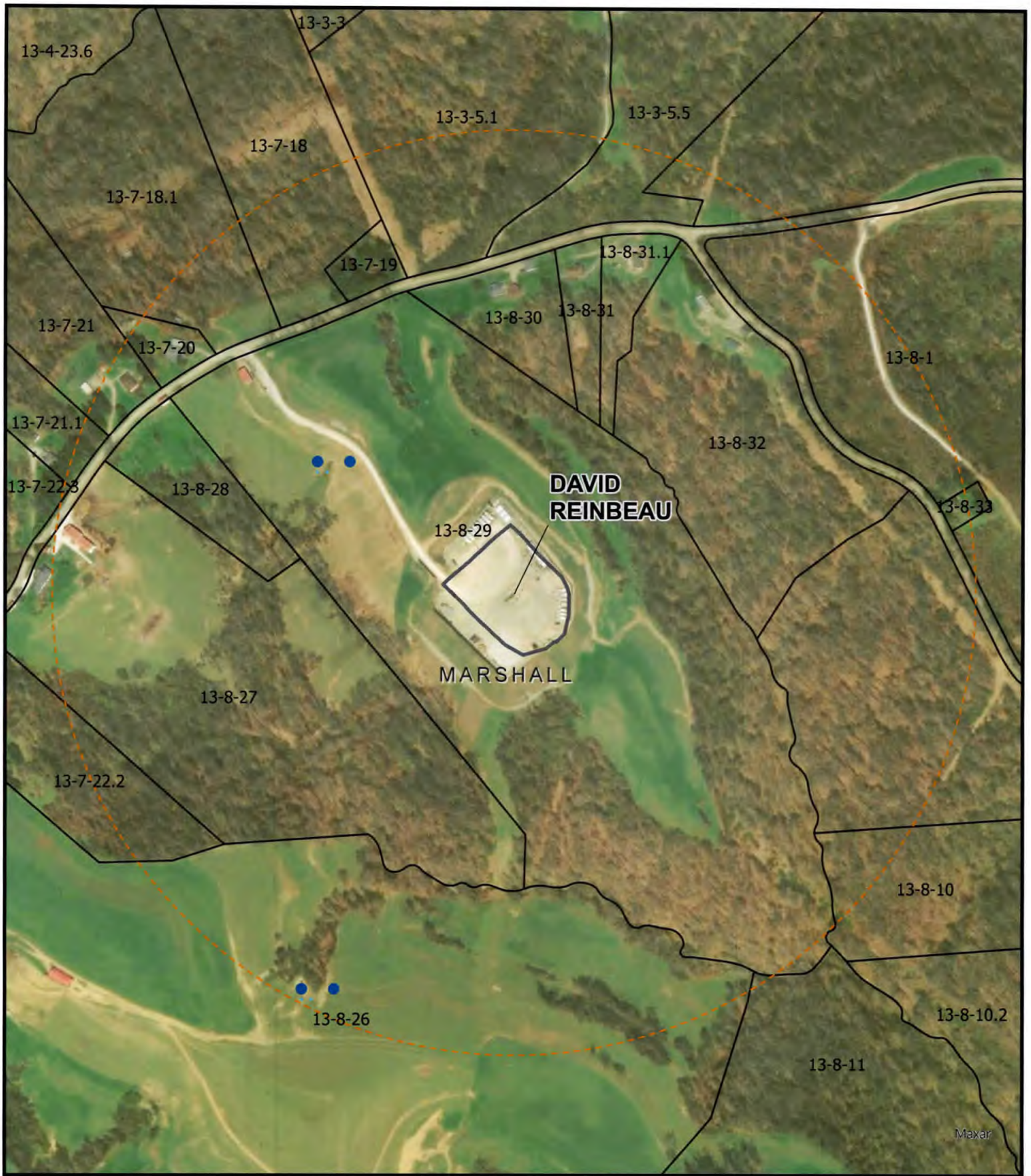
The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory 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](mailto:depprivacyofficer@wv.gov).



Subscribed and sworn before me this 25 day of March 2025.  
Elizabeth Blankenship Notary Public  
My Commission Expires 6/23/2029

RECEIVED  
Office of Oil and Gas  
MAY 07 2025  
WV Department of  
Environmental Protection

06/20/2025



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.

<h2>Water Purveyor Map</h2> <p><b>SWN</b> Southwestern Energy 4705102558</p> <p><small>Created By: deans Date Exported: 3/29/2025 10:13 Spatial Reference Name: NAD 1983 BLM Zone 17N FUS</small></p>		<p>1500 ft. Buffer</p> <p>Water Sources</p> <ul style="list-style-type: none"><li>Spring</li><li>Water Well</li><li>Pond</li></ul>	<p><b>WELL PAD:</b> <b>DAVID REINBEAU-MSH-PAD1</b></p> <p><b>COUNTY:</b> <b>MARSHALL</b></p> <p>Scale: 1:4,692</p> <p>0 140 280 560 840 1,120</p> <p>06/20/2025</p>
---	--	--	---

**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:** 04/21/2025

Date Permit Application Filed: 5/6

**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: David & Shelly Reinbeau

Address: 651 Sorghum Ridge Road

Wheeling, WV 26003

Name: \_\_\_\_\_

Address:

**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: Union

Quadrangle: Moundsville, WV

Watershed: Hollidays Run of Wheeling Creek (HUC010)

UTM NAD 83      Easting:      528,904.014

UTM NAD 83      Northing: 4,427,008.392

Public Road Access: Sorghum Ridge

Generally used farm name: David Reinbeau

RECEIVED  
Office of Oil and Gas

MAY 07 2025

**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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://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](mailto: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](mailto: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](mailto:depprivacyofficer@wv.gov).

06/20/2025

**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:** 04/21/2025

**Date Permit Application Filed:** 5/14

**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: David & Shelly Reinbeau

Name: \_\_\_\_\_

Address: 651 Sorghum Ridge Road

Address: \_\_\_\_\_

Wheeling, WV 26003

**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

UTM NAD 83 Easting: 528,904.014

County: Marshall

Northing: 4,427,008.392

District: Union

Public Road Access: Sorghum Ridge

Quadrangle: Moundsville, WV

Generally used farm name: David Reinbeau

Watershed: Hollidays Run of Wheeling Creek (HUC010)

**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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

Well Operator: Expand Energy Company, LLC

Address: 1300 Fort Pierpont Dr., Suite 201

Telephone: (304) 209-5685

Morgantown, WV 26508

Email: steve.pauley@expandenergy.com

Facsimile: \_\_\_\_\_

RECEIVED  
Office of Oil and Gas

MAY 07 2025

WV Department of  
Environmental Protection

**Oil and Gas Privacy Notice:**

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

06/20/2025



4705102558

**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

May 2, 2025

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

Subject: DOH Permit for the David Reinbeau Well Pad, Marshall County  
David Reinbeau MSH 205H Well Site   David Reinbeau MSH 405H Well Site  
David Reinbeau MSH 210H Well Site   David ReinbeauMSH 410H Well Site ✓

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2013-0029 which has been transferred to Expand Operating, LLC for access to the State Road for a well site located off Marshall County Route 88/2 SLS MP 0.84.

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

Very Truly Yours,

Lacy D. Pratt  
Central Office O&G Coordinator

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

RECEIVED  
Office of Oil and Gas  
MAY 07 2025  
WV Department of  
Environmental Protection

06/20/2025

## 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
Ferriplex 80	Iron Control	Triethyl phosphate	78-40-0
Tolicide 4Frac	Biocide	Sodium Erythorbate	6381-77-7
		Tetrakis(Hydroxymethyl) Phosphonium Sulfate	55566-30-8
		Quaternary ammonium compounds	68424-85-1
		Ethanol	64-17-5
Plexslick 930	Friction Reducer	Water	7732-18-5
		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
Plexaid 655NM	Scale Inhibitor	Sodium Chloride	7647-14-5
		ORGANIC PHOSPHONIC ACIDS SALTS	15827-60-8
Plexslick V996	Friction Reducer	Water	7732-18-5
		Hydrotreated Petroleum Distillate	64742-47-8
		Water	7732-18-5
		copolymer of 2-propenamide	69418-26-4
		Alcohol Ethoxylate Surfactants	68551-12-2
Plexaid 655WG	Scale Inhibitor	Sodium Chloride	7647-14-5
		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

RECEIVED  
Office of Oil and Gas  
MAY 07 2025  
WV Department of  
Environmental Protection

06/20/2025

OPERATOR: Expand Operating LLC

WELL NO: David Reinbeau MSH 410H

PAD NAME: David Reinbeau MSH

REVIEWED BY: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

*Bethany Waddy*

## WELL RESTRICTIONS CHECKLIST

### HORIZONTAL 6A WELL

*\*Pad Built 4/17/13*

#### Well Restrictions

☐ At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR

☐ DEP Waiver and Permit Conditions

☐ At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR

☐ DEP Waiver and Permit Conditions

☐ At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply; OR

☐ DEP Waiver and Permit Conditions

☒ At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR

☐ Surface Owner Waiver and Recorded with County Clerk, OR

☐ DEP Variance and Permit Conditions

☐ At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; OR

☐ Surface Owner Waiver and Recorded with County Clerk, OR

☐ DEP Variance and Permit Conditions

☐ At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to Center of the Pad; OR

☐ Surface Owner Waiver and Recorded with County Clerk, OR

☐ DEP Variance and Permit Conditions

RECEIVED  
Office of Oil and Gas

MAY 07 2025

WV Department of  
Environmental Protection

06/20/2025