



west virginia department of environmental protection

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

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

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

EXPAND OPERATING LLC
6100 N WESTERN AVE.

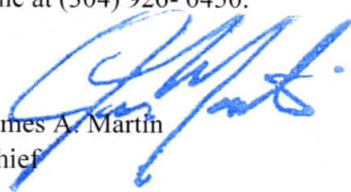
OKLAHOMA CITY, OK 73118

Re: Permit approval for DAVID REINBEAU MSH 405H
47-051-02557-00-00

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 405H
Farm Name: SHELLY A & DAVID W REINBEAU
U.S. WELL NUMBER: 47-051-02557-00-00
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

WW-6B
(04/15)

API NO. 47-051 **4705102557**
OPERATOR WELL NO. David Reinbeau MSH 405H
Well Pad Name: David Reinbeau MSH

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

- 1) Well Operator: Expand Operating LLC 494533012 051-Marshall 07-Union 486-Moundsville
Operator ID County District Quadrangle
- 2) Operator's Well Number: David Reinbeau MSH 405H 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, Up-Dip well to the North, Target Top TVD- 6323', Target Base TVD- 6375', Anticipated Thickness- 52', Associated Pressure- 4144
- 8) Proposed Total Vertical Depth: 6355'
- 9) Formation at Total Vertical Depth: Marcellus
- 10) Proposed Total Measured Depth: 33,984'
- 11) Proposed Horizontal Leg Length: 13659.14
- 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): _____
- 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

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MAY 07 2025

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*Stacy
Strader-Lower
4/17/2025*

WW-6B
(04/15)

API NO. 47- 051 - **4705102557**
 OPERATOR WELL NO. David Reinbeau MSH 405H
 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#	33984'	33984"	Tail 6483sx/ 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:				RECEIVED Office of Oil and Gas MAY 07 2025
Sizes:				WV Department of Environmental Protection
Depths Set:				

STRADA LWS WCH
4/17/2025

WW-6B
(10/14)

4705102557
API NO. 47- 051
OPERATOR WELL NO. David Reinbeau MSH 405H
Well Pad Name: David Reinbeau MSH

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 ***


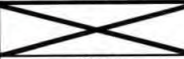



















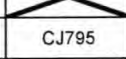




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25) Proposed borehole conditioning procedures:

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

*Note: Attach additional sheets as needed.

4705102557

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		VISCOFIER/ANTI- SETTLING AGENT	REFINED POLYMER/ CHRYSTALLINE SILICA	PROPRIETARY
	D198	R-3		CEMENT RETARDER	LIGNIN	8068-51-6
	SUGAR	SUGAR	CJ795	CEMENT RETARDER	SUCROSE	57-50-1
	D065			DISPERSANT	SODIUM POLYNAPHTHALENE SULFONATE	8068-51-6
	D800			CEMENT RETARDER (Mid-Temperature)	SODIUM LIGNOSULFONATE	8061-51-6

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Expand Energy				Proposed Drilling Program	
Well:	DAVID REINBEAU MSH 405H		Drilling Rig:	EDC 41	
Field:	PANHANDLE FIELD		Formation:	Marcellus Shale	
County:	MARSHALL		State:	WV	
SHL (NAD27):	39.992647 Latitude	-80.661673 Longitude			
BHL (NAD27):	40.065668 Latitude	-80.691747 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

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'	33,984'

	Sacks	Class	Density
Conductor	173	A	19.3
Surface	543	A	15.6
Intermediate	840	A	15.6
Production	6483	A	14.5-15.0

KOP at 6,474' MD

Freshwater Depth - 426' TVD
Coal Depth - 775' TVD
Saltwater Depth - 883' TVD
TVD - 6,355'
TMD - 33,984'

6,355' TVD Target Center

LP at 7,378' MD
SHL Onondaga 6,375' TVD

TD at 6,474'

6,474' to 7,378'
12.0-12.5 ppg

TD at 33,984' MD
6,355' TVD

Onondaga 6,375' TVD

7,378' to 33,984'
12.5-13.5 ppg

Created by: Sebastian Ziaja on 03/31/2025

STEVE GOWER
 4/17/2025

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David Reinbeau MSH 405H AOR

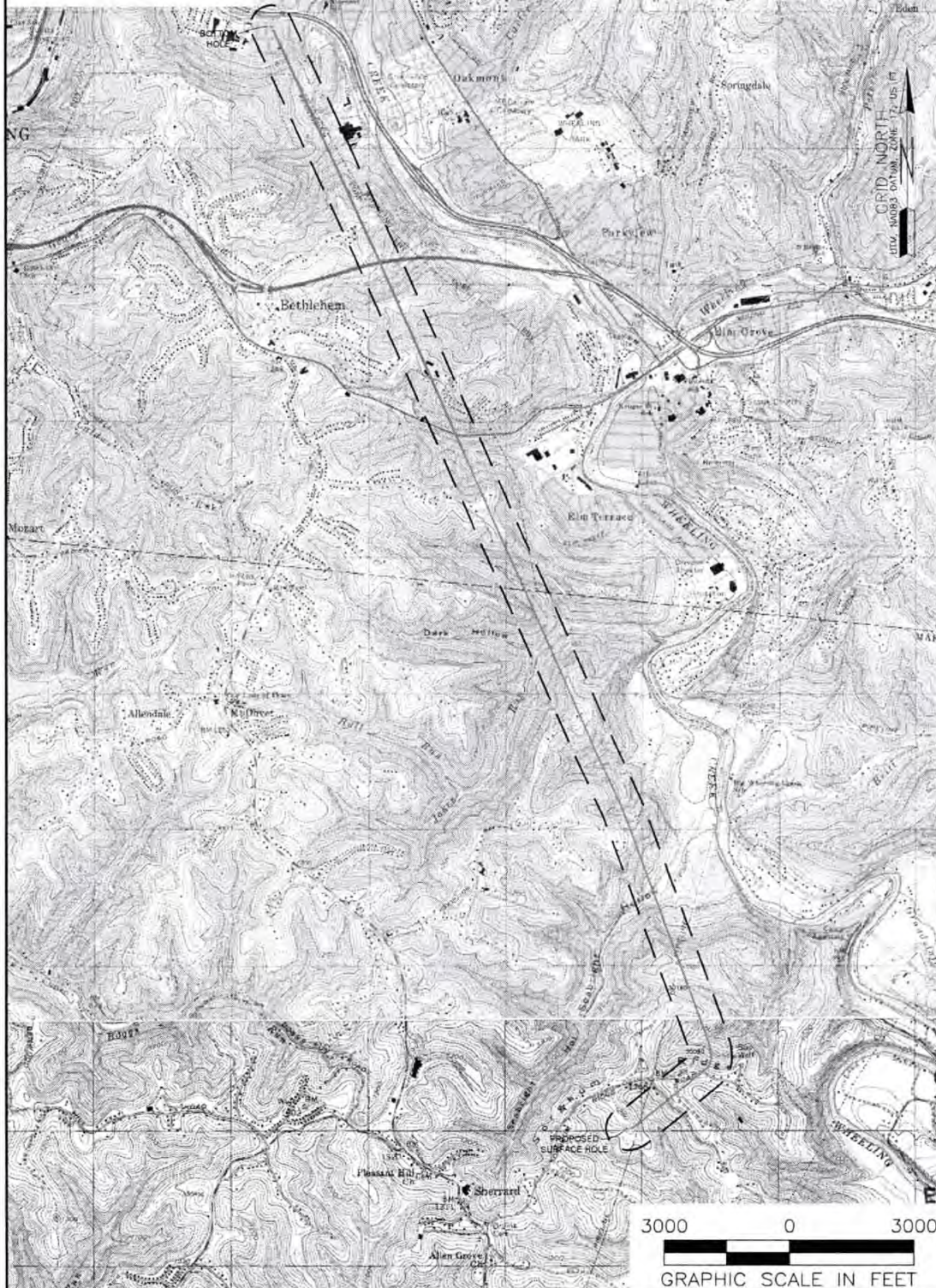
API	Operator	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones Not Perforated
051-30090-A	Unknown	Abandoned	***	***	1,476'	Cow Run Sand, Salt Sand	N/A
051-30106-A	Unknown	Abandoned	***	***	1,548'	Salt Sand	N/A

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**JACKSON SURVEYING
INC.**

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



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3000 0 3000

GRAPHIC SCALE IN FEET

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
- LPLX LANDING POINT LOCATION
- ACCESS ROAD
- PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- === LEASE BOUNDARY
- PROPOSED PATH
- FLOOD PLAIN

WELL OPERATOR:

EXPAND OPERATING LLC

ADDRESS:

1300 FORT PIERPONT ROAD, SUITE 200 MORGANTOWN, WV 26508

SURFACE OWNER:

SHELLY A. & DAVID W. REINBEAU

WELL (FARM) NAME:

DAVID REINBEAU MSH

WELL #

405H

COUNTY - CODE

MARSHALL - 051

DISTRICT;

UNION

USGS 7 1/2 QUADRANGLE MAP NAME

MOUNDSVILLE, WV

WW-9
(4/16)

API Number 47 - 051

Operator's Well No. David Reinbeau MSH 410H

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 SOB 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 C

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

Subscribed and sworn before me this 25 day of March, 2025

Elizabeth Blankenship Notary Public

My commission expires 6/23/2029



06/20/2025

4705102557

Form WW-9

Operator's Well No. David Reinbeau MSH 405HExpand 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: STRADER GOWER

Comments: _____

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Environmental ProtectionTitle: Oil & Gas InspectorDate: 4/17/2025

Field Reviewed?

☒ Yes☐ No

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.

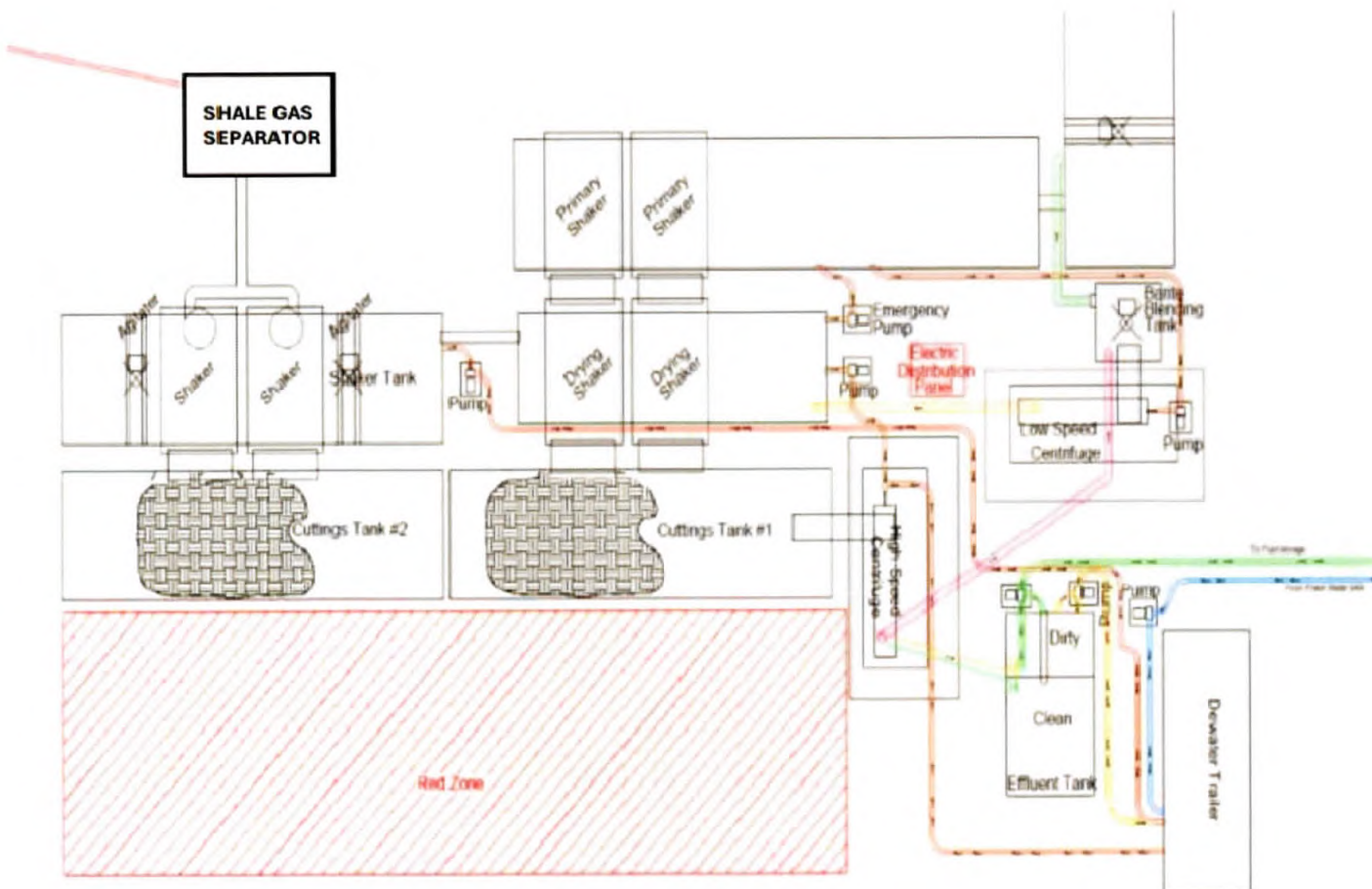
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3.10.2025
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Solids Control Layout



EXAMPLE SCHEMATIC FOR CLOSED LOOP SOLIDS CONTROL SYSTEM

4705102557

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

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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%	
Timothy	15%	
Annual Ryegrass	15%	
Brown Top Millet	5%	
Red Top	5%	
Medium Red Clover	5%	All legumes are innoculated at 5x normal rate
White Clover	5%	
Birdsfoot Trefoil	5%	
Rough Bluegrass	5%	
Apply @ 100lbs per acre April 16th- Oct. 14th		Apply @ 200lbs per acre Oct. 15th- April 15th PLUS 50lbs per acre of Winter Wheat

SOIL AMENDMENTS

10-20-20 Fertilizer	*Apply @ 500lbs per Acre
Pelletized Lime	Apply @ 2 Tons per Acre
*unless otherwise dictated by soil test results	

Seeding Calculation Information:

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

Synopsis:

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

Special Considerations:

Landowner Special Considerations including CREP program participants require additional guidance that is not given here. Discuss these requirements with 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

NO FERTILIZER OR LIME INSIDE WETLAND LIMITS

MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN

4705102557



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

API NO. 47-XXX-XXXXX
WELL NAME: David Reinbeau MSH 405H
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 GOWER

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

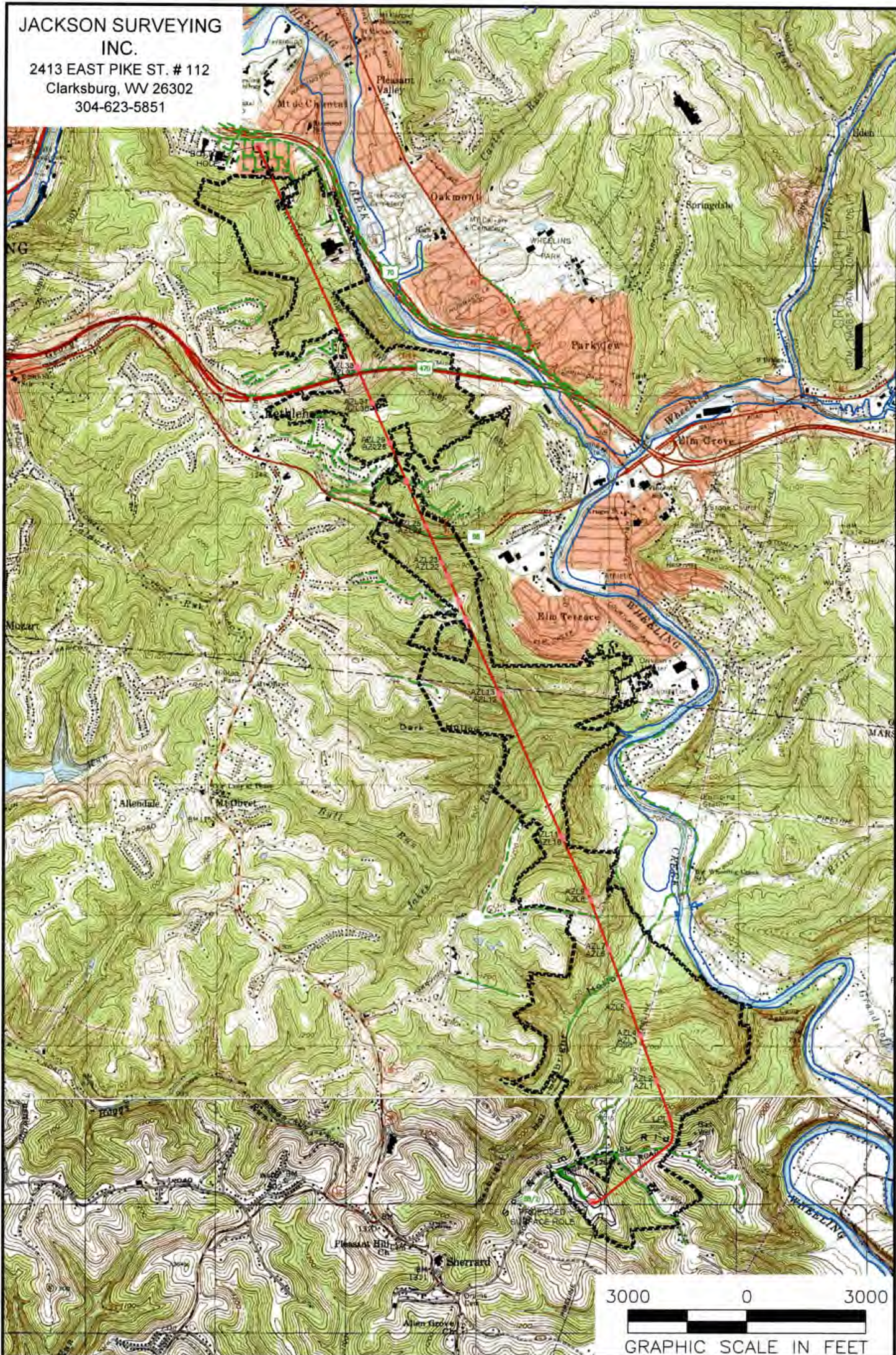
JACKSON SURVEYING

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 X LANDING POINT LOCATION
- FLOOD PLAIN
- 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:

SHELLY A. & DAVID W. REINBEAU

WELL (FARM) NAME:

DAVID REINBEAU MSH

WELL

405H

COUNTY - CODE

MARSHALL - 051

DISTRICT;

UNION

USGS 7 1/2 QUADRANGLE MAP NAME

MOUNDSVILLE, WV

SURFACE HOLE 10,219'

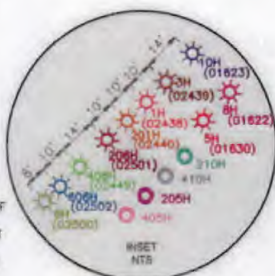
-BOTTOM HOLE 6,967'

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

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,427,004.180
EASTING: 528,899.613
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,427,650.903
EASTING: 529,491.874
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,435,099.391
EASTING: 526,304.062

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 18°14'36" W	1,081.09'	SHL TO LANDMARK	FD. FENCE CORNER
L2	N 57°59'38" W	1,293.20'	SHL TO LANDMARK	FD. FENCE CORNER
L4	N 20°03'06" W	13.56'	AZL1 TO AZL2	
L5	N 19°57'06" W	1.55'	AZL3 TO AZL4	
L6	N 20°11'35" W	855.80'	AZL4 TO AZL5	
L7	N 20°00'35" W	1,441.07'	AZL5 TO AZL6	
L8	N 20°06'18" W	12.04'	AZL6 TO AZL7	
L9	N 20°14'46" W	1,320.43'	AZL7 TO AZL8	
L11	N 24°16'21" W	57.24'	AZL10 TO AZL11	
L12	N 23°58'59" W	31.17'	AZL12 TO AZL13	
L13	N 24°15'39" W	1978.78'	AZL13 TO AZL14	
L14	N 23°19'04" W	94.66'	AZL14 TO AZL15	
L15	N 22°22'35" W	403.69'	AZL15 TO AZL16	
L16	N 23°07'17" W	75.94'	AZL16 TO AZL17	
L17	N 23°51'56" W	522.80'	AZL17 TO AZL18	
L18	N 23°48'59" W	5.97'	AZL18 TO AZL19	
L19	N 23°53'07" W	149.42'	AZL19 TO AZL20	
L20	N 23°48'12" W	11.70'	AZL20 TO AZL21	
L21	N 23°45'31" W	345.71'	AZL21 TO AZL22	
L22	N 23°54'18" W	2.02'	AZL22 TO AZL23	
L23	N 23°45'55" W	1015.04'	AZL23 TO AZL24	
L24	N 23°44'49" W	8.10'	AZL24 TO AZL25	
L25	N 23°46'37" W	1214.31'	AZL25 TO AZL26	
L26	N 23°47'28" W	15.62'	AZL26 TO AZL27	
L27	N 23°47'05" W	1029.67'	AZL27 TO AZL28	

L28	N 23°47'36" W	14.80'	AZL28 TO AZL29	
L29	N 23°47'38" W	1080.27'	AZL29 TO AZL30	
L30	N 23°44'21" W	16.42'	AZL30 TO AZL31	
L31	N 23°38'33" W	939.74'	AZL31 TO AZL32	
L32	N 24°02'35" W	46.24'	AZL32 TO AZL33	
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	N 42°28'59" E	2877.09'	3,156.56'	SHL TO LP
L10	N 22°32'36" W	229.56'	229.61'	AZL8 TO AZL9



WELL RESTRICTIONS

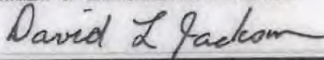
1. NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
2. NO CULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
3. NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
4. NO PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS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

NOTES ON SURVEY

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

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

P.S. 708



2000 0 2000

GRAPHIC SCALE IN FEET

COMPANY:



(+) 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 #: 405H

API WELL #:	47	051	02557
	STATE	COUNTY	PERMIT

WELL TYPE: OIL WASTE DISPOSAL PRODUCTION ☒ DEEP GAS ☒ LIQUID INJECTION STORAGE SHALLOW ☒

WATERSHED: HOLLIDAYS RUN OF WHEELING CREEK (HUC-10) ELEVATION: 1,250.9'

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) 06/20/2025

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,355 TVD 33,984 TMD

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

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

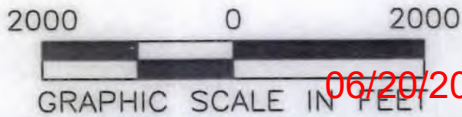
LEGEND:		REVISIONS:		DATE: 03-26-2025
	PROPOSED SURFACE HOLE / BOTTOM HOLE		SURVEYED BOUNDARY	
	EXISTING / PRODUCING WELLHEAD		DRILLING UNIT	
LPL 	LANDING POINT LOCATION		LEASE BOUNDARY	
	EXISTING WATER WELL		PROPOSED PATH	
	EXISTING SPRING			
				DRAWN BY: N. MANO
				SCALE: 1" = 2000'
				DRAWING NO:
				WELL LOCATION PLAT

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



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*



06/20/2025

REVISIONS: 47-051-02557	COMPANY: expand	DATE: 03-26-2025
	OPERATOR'S DAVID REINBEAU MSH	DRAWN BY: N. MANO
	WELL #: 405H	SCALE: N/A
	DISTRICT: UNION	DRAWING NO:
	COUNTY: MARSHALL	WELL LOCATION PLAT 2
	STATE: WV	

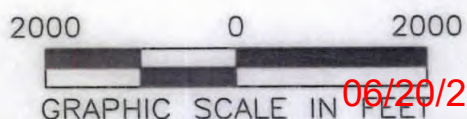
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P.S. 708

David L Jackson

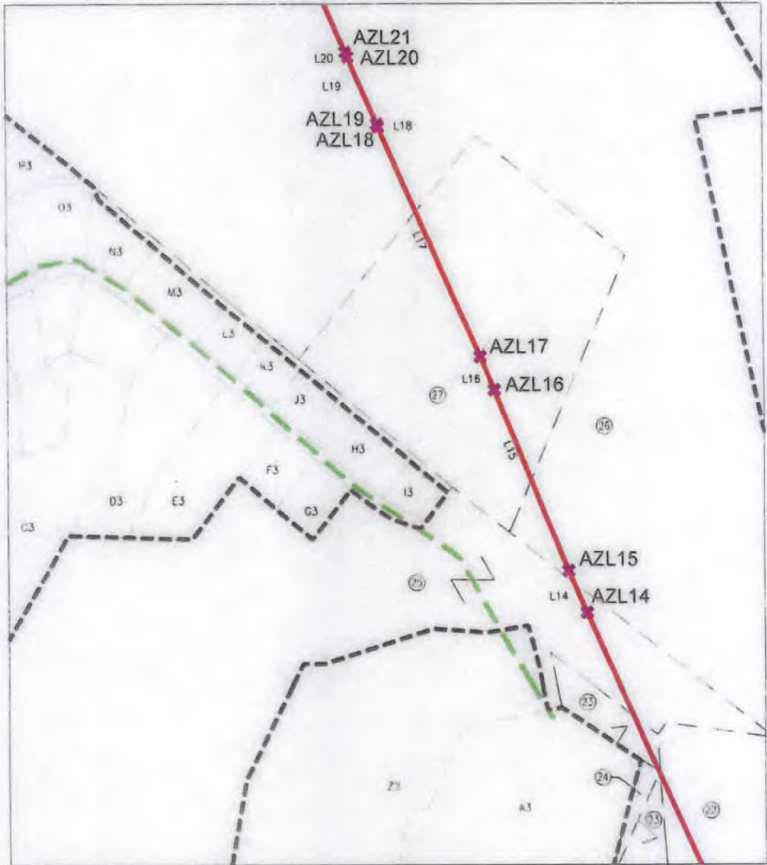


06/20/2025

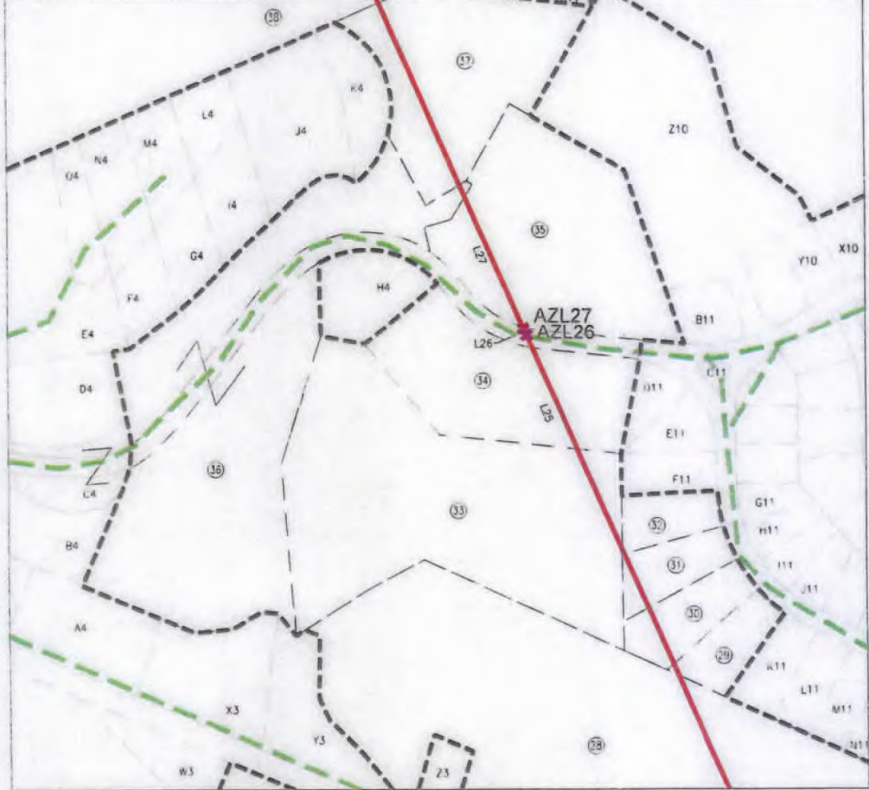
REVISIONS:	47-051-02557	COMPANY:				
		OPERATOR'S DAVID REINBEAU MSH WELL #: 405H				DATE: 03-26-2025
						DRAWN BY: N. MANO
						SCALE: N/A
						DRAWING NO:
		DISTRICT: UNION	COUNTY: MARSHALL	STATE: WV	WELL LOCATION PLAT 3	

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

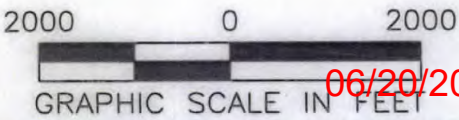
DETAIL "A"



DETAIL "B"



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*



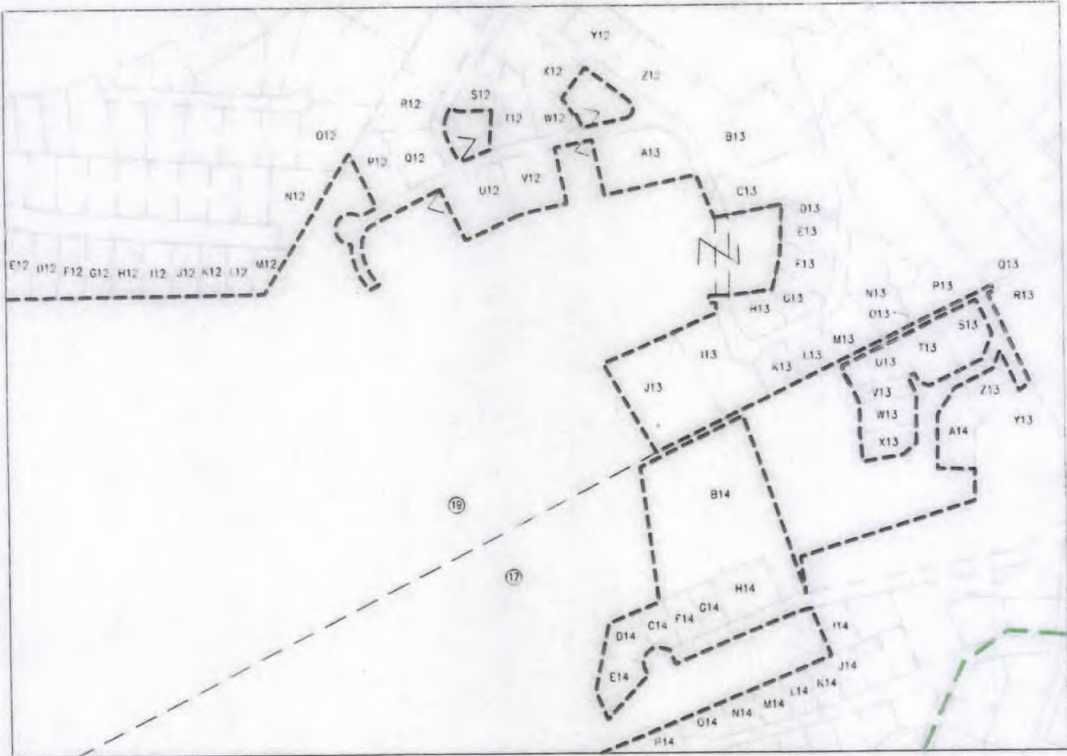
REVISIONS: 47-051-02557	COMPANY: expand	DATE: 03-26-2025
	OPERATOR'S DAVID REINBEAU MSH	DRAWN BY: N. MANO
	WELL #: 405H	SCALE: N/A
	DISTRICT: UNION	STATE: WV
	COUNTY: MARSHALL	DRAWING NO:
		WELL LOCATION PLAT 4

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

DETAIL "C"



DETAIL "D"



I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS
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AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 708

David L Jackson

2000 0 2000



GRAPHIC SCALE IN FEET

06/20/2025

REVISIONS: 47-051-02557

COMPANY:

expand

OPERATOR'S DAVID REINBEAU MSH

WELL #: 405H

DISTRICT: UNION COUNTY: MARSHALL

STATE: WV

DATE: 03-26-2025

DRAWN BY: N. MANO

SCALE: N/A

DRAWING NO: WELL LOCATION PLAT 5

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 SHELLEY A & DAVID W (S)/(R)	13-8-29
TRACT	SURFACE OWNER (S)	TAX PARCEL
2	KOSEN 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	BONACCI BRIAN F (S)	13-3-5.1
6	COULLING LOUISE S ET AL (S)	13-3-3
7	COULLING LOUISE S (S)	13-3-5
8	COULLING LOUISE S ET AL (S)	13-3-5.3
9	WHITE HORSE FARM LLC (S)	13-3-2
10	ISER RONALD J ET UX (S)	13-2-88
11	GIBSON DAVID T ET UX (S)	13-2-26
12	WILLIS CHARLES ROBERT ET AL (S)	13-2-29
13	LONG RICHARD E ET UX (S)	13-2-34
14	LONG RICHARD E ET UX (S)	13-2-35
15	LONG TODD ELLIEST (S)	13-2-35.1
16	LONG RICHARD E ET UX (S)	13-2-20
17	SCHANE SANDREA M (S)	13-2-19
18	PERONI CONSTRUCTION INC (S)	10-W95-112
19	MARTIN KELLY JO (S)	13-2-16.2
20	C J RYAN NC (S)	10-W95-109
21	BRAUNLICH EARL FRITZ & JAMIE (S)	13-2-102.4
22	POTTS TAYLOR & KRISTIN POTTS (S)	01-RB2-31.9
23	POTTS JOHN W & ROSE A (S)	01-RB2-31.8
24	POTTS JOHN W & R A (S)	01-RB2-31.7
25	POTTS JOHN W & ROSE A (S)	01-RB2-31.2
26	GALE JAMES ASSET MGMT LLC (S)	01-RB2-24.1
27	WHEELING ANTENNA CO C/O COMCAST CORPORATION (S)	01-RB2-26
28	APEX SELF STORAGE LLC (S)	01-RB2-37
29	PORTA JAMES A & EYTHLE L (S)	01-RB2J-15
30	CARTER BARRY W & T L (S)	01-RB2J-14
31	SAMBUCCO ERROL C JR & C L (S)	01-RB2J-13
32	BIEGA THOMAS A (S)	01-RB2J-12
33	APEX SELF-STORAGE LLC (S)	01-RB2-17.2
34	NERNBERG A RICHARD TRUST 1/2 INT & NERNBERG SUSAN L 1/2 INT (S)	01-RB2J-3
35	NERNBERG A RICHARD TRUST 1/2 INT & NERNBERG SUSAN L 1/2 INT (S)	01-RB2J-146
36	VILLAGE OF BETHLEHEM (S)	01-RB2-17.4
37	WHEELING PROPERTIES CO ADDI (S)	01-RB2-20
38	BLEIFUS LEO A JR (S)	01-RB2-18.1
39	TAYLOR JOSEPH WILLIAM (S)	01-RB2-19
40	WV DOT (S)	1470
41	WH HOLDINGS II INC (S)	01-RB1-16
42	SWEARINGEN PEGGY D (S)	01-RB1-16.2
43	DIOCESAN REAL ESTATE INC (S)	10-W68A-2
44	BEALL PAUL E TRUSTEE BEALL FAMILY IRREV TRUST (S)	01-RB1-21
45	CAPGROW HOLDINGS JV SUB VII LLC (S)	10-W61-61
46	BALTZ ROBERT R (S)	10-W61-38
47	VAUGHT RODNEY J (S)	10-W61-39
48	BORUM MARY M & MARK R (S)	10-W61-40
49	WHALEN SUSAN M (S)	10-W61-21
50	POSEY MICHAEL & ROBERTA - TODD (S)	10-W61-17
51	MILLER MARIA E (S)	10-W53-207
52	TRABERT MARTY J (S)	10-W53-208
53	GREER STACY J (S)	10-W53-210
54	BAUER DANIEL E & M A (S)	10-W53-211
55	YAHNKE GREGORY L SHARON E (S)	10-W53-213.1
56	STEAD TERRI L & TODD M (S)	10-W53-200
57	SCOTT TUCKER WILSON & ERIN WILSON (S)	10-W53-199
58	LINDSAY & BRIAN LEGGETT (S)	10-W53-198
59	RICH HOLDINGS LLC (S)	10-W53-197

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	ROUSH MATTHEW G	13-8-34
B	KNOX VERNON GLEN ET UX	13 8 35
C	SHEPHERD KENNETH MICHAEL	13-8-7.1
D	TAYLOR DAVID R ET UX	13 8 9
E	LIBERTY JOHN ET UX	13-8-10
F	MCCOMBS JOHN A SR, THOMAS E & BETH	13-8-11
G	MCCOMBS JOHN A SR, THOMAS L & BLITH	13-8-26
H	HLINBLAU SHELLEY A & DAVID W	13-8-27
I	BOWMAN MICHAEL ET UX	13-8-28
J	BOWMAN MICHAEL J & CONSTANCE L G	13-7-21
K	ALEXANDER LORRAINE TOD	13 7 20
L	ALEXANDER LORRAINE TOD	13 7 18.1
M	ALEXANDER LORRAINE - TOD	13-7-18
N	SAMPSON EDITH VIRGINIA EST	13 / 19
O	NARRISH KEVIN	13-8-30
P	SOUTH CHRISTOPHER C	13 8 31
Q	KOSTILL CSKY JOSEPH J JR & CAROLYN - TOD	13-8-31.1
R	OHIO COUNTY COAL RESOURCES INC	13-3-3.1
S	WARD CYNTHIA J & DALE P	13-4-23.6
T	WEST RICHARD DWAYNE JR ET AL	13 4 22
U	BRINKMEIER BRUCE & TAMARA	13 4 22.14
V	BRINKMEIER BRUCE & TAMARA	13-4-22.15
W	WALTON EARL RICHARD JR & BRANDICE C	13-4-22.21
X	WALTON EARL RICHARD JR & BRANDICE C	13-4-22.23
Y	GAMES MARY V	13-4-22.19
Z	GAMES MARY V	13-4-22.18
A2	GRISSELL ELLIOTT G & LORRI ANN	13-4-22.16
B2	HILL CAROL LYNN & FORDYCE BRIAN W	13-4-22.8
C2	MCGUIRE PHILIP C	13-4-21.4
D2	WILDLBUSCH ROBERT & CINDY	13-2-93.1
L2	WILDLBUSCH ROBERT & CINDY	13 2 91
F2	GAUGHAN MICHAEL WM	13 2 90.1
G2	GAUGHAN MICHAEL W ET UX	13-2-90
H2	ABEL JAMES R & SHERI L	13 2 89
I2	FAZIO NATHAN H & KIRBY M	13-2-87
J2	WROBEL MICHAEL A	13-2-29.2
K2	MCCOMBS JLRRI L	13 2 29.3
L2	GARVIN JOHN ARTHUR	13 2 85
M2	STOEHR JOHN ROBERT ET UX	13-2-83.1
N2	INGHAM ROBERT H III & LISA A	13-2-29.1
O2	INGRAM ROBERT H III & LISA A	13 2 29.4
P2	DOUGHERTY MICHAEL C	13 2 30.8
Q2	LONG RICHARD L ET UX	13-2-32
R2	LONG RICHARD E ET UX	13 2 33
S2	LONG RICHARD E ET UX	13 2 37
T2	LAUTER FRANK ET AL	13-2-36
U2	SLIDLER L DALL JR	13 2 14.9
V2	SEIDLER PATRICIA L IRREVOCABLE TRUST	13-2-14.7
W2	BRAUNLICH EARL F & JAMIE	13-2-102.3
X2	RAHBAR AHMAD CREDIT SHELTER TRUST	13 2 102
Y2	ANDREWS JANET M TRUSTEE	1 RB2 32
Z2	POTTS JOHN W & ROSIE A	1-RB2-31.13
A3	POTTS JOHN W & R A	1-RB2-31.1
B3	SPENCER PHILIP	1 RB2 31.5
C2	MORGAN LEE ANN	1 RB2 31.12
D3	BARBOUR HOLLY W	1-RB2-31.10
E3	KOVAL MATTHEW F	1-RB2-31.11
F3	HIGGINS WILLIAM J	1-RB2M-52.1
G3	HIGGINS WILLIAM J	1-RB2M-52
H3	GANTZER MICHAEL J & D M	1-RB2M-45
I3	WHEELING ANTENNA CO INC; C/O COMCAST CORPORATION	1-RB2M-46
J3	GANTZER MICHAEL J & DEBRA M	1 RB2M 44
K3	DUDEK CHRISTOPHER T & GRISOLANO MEGAN E	1-RB2M-55
L3	DUDEK CHRISTOPHER T & GRISOLANO MEGAN E	1 RB2M 43
M3	KURKO BRIAN S	1 RB2M 42
N3	BRANNAN MARK & DONNA K	1-RB2M-40
O3	HAHL LILLIANOR I (LL); GUY ROBERT D; GUY CHRYL H	1-RB2M-31.11
P3	STRAUB JOSEPH H EST; MARGARET STRAUB	1-RB2 31
Q3	CONRAD JOSHUA D & TRISHA J	1-RB2-27.3
R3	CONRAD JOSHUA D & TRISHA J	1-RB2-24
S3	DLESK RICHARD J SR	1 RB2 24.2
T3	DLESK RICHARD J SR	1 RB2 24.3
U3	CONRAD JOSHUA D & TRISHA J	1-RB2-34.1
V3	DLESK ROSALIE J	1 RB2 34.4
W3	DLESK ROSALIE J	1 RB2 34.3
X3	APEX SELF-STORAGE LLC	1-RB2-21.2
Y3	APLX SELF-STORAGE LLC	1-RB2-21.4
Z3	CRAIN VICTORIA P	1 RB2 22

*High-lighted Parcel's may be impacted during drilled.

06/20/2025

REVISIONS: 47-051-62557	COMPANY: expand	DATE: 03-26-2025
	OPERATOR'S DAVID REINBEAU MSH	DRAWN BY: N. MANO
	WELL #: 405H	SCALE: N/A
	DISTRICT: UNION	DRAWING NO: WELL LOCATION PLAT 6
	COUNTY: MARSHALL	
	STATE: WV	

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

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A4	VALLEY MOTORCYCLE PROPERTIES LLC	1-RB2-21.1
B4	DLESK RICHARD J SR	1-RB2-17.3
C4	VILLAGE OF BETHLEHEM	1-RB2-17.1
D4	PODDUA DON M & S T	1 RB2 17
E4	POMPLO MICHAEL J & ELIZABETH A	1 RB2D-28
F4	DAVIS CHAD & JAMI	1-RB2D-30.1
G4	DAVIS CHAD & JAMI	1-RB2D-31.1
H4	WHEELING PROPERTIIS CO	1 RB2J 1
I4	DAVIS CHAD & JAMI	1 RB2D 32.1
J4	JOSEPH VICKIE J	1-RB2D-33
K4	JOSEPH VICKIE J	1-RB2D-35
L4	PODDUA SAUNDRA J CAN	1-RB2D-32
M4	MCCARTY BETTY JANE	1-RB2D-31
N4	ABRIGG JOHN C	1-RB2D-30
O4	CAMILLETTI STEPHEN E & LISA A	1 RB2D 29
P4	ROBERTS JEFFREY E	1 RB2D 14
Q4	TARR CAROL LOUISE - TOD	1-RB2D-13
R4	SENGEWALI GARY E	1-RB2D-12
S4	SAUS JAMES M & DONNA J	1 RB2D 11
T4	WARMUTH DEBRA ANN	1-RB2D-10
U4	MOORE PAUL R & CHRISTINE A	1-RB2D-9
V4	LECHNER JUSTINE L	1-RB2D-8
W4	KOERNER SHARON F	1-RB2D-7
X4	HELLER NICOLE R	1-RB2D-6
Y4	ODONNELL STEPHANIE	1-RB2D-5
Z4	GRAMUCH MICHAEL P	1-RB2D-4
A5	TEMPLIN JOSEPH F; RICH CHARLENE A	1-RB2C-122.1
B5	CAMPBELL LESLEY R	1-RB2C-122.3
C5	SEIDLER DALE	1-RB2C-122.2
D5	PHYLLIS PHYLLIS L	1-RB2D-2.1
E5	BYRUM R CURTIS & CHRISTIN S	1 RB2D 2.2
F5	BYRUM R CURTIS & CHRISTIN S	1-RB2D-2
G5	BYRUM R CURTIS & CHRISTIN S	1-RB2D-2.3
H5	STRAFACE JOSEPH JR	1 RB2C 110
I5	NISS BONNIE KERR	1 RB2C 111
J5	BERLECH COLTON L	1-RB2C-112
K5	BLIFUS LEO	1-RB2C-109
L5	BLIFUS LEO A JR	1-RB2C-108.1
M5	SULEK DONALD L & L	1-RB2C-107
N5	KLOSS ROBERT A & DONNA J	1-RB2C-101
O5	CUCHTA BEAU	1-RB2C-100
P5	TAYLOR JOSEPH WILLIAM	1 RB2C 95
Q5	BOARD OF EDUCATION	1-RB2C-94
R5	BETHLEHEM UNITED PRESBYTERIAN CHURCH TRUSTEES	1-RB2C-36
S5	PRESBYTERY OF WHEELING (SYNOD OF WV)	1 RB1Q 36
T5	SCHIEHL MICHAEL A & CHRISTINA L	1 RB1Q 39
U5	DILRINGLR OLIV JANL	1-RB1-17
V5	DILRINGLR SCOT S.	1-RB1Q-107.1
W5	SASEEN MARK S & ALISON M	1-RB1-18.1
X5	WHITE JONATHAN W & HEATHER	1-RB1-18
Y5	WEESE JEFFREY	1-RB1Q-125
Z5	LNNIS DALL H & GLADYS L	1-RB1Q-116
A6	RAPP DAVID A & JAMMY L	1-RB1Q-127
B6	BRUNNER MICHAEL D & ROBIN ANN	1 RB1Q 117
C6	BELL SETH W & JENNIFER	1-RB1Q-113.1
D6	BELL SETH W & JENNIFER	1-RB1Q-113
E6	RYKACIWSKI PATRICIA L	1-RB1Q-115
F6	ONEIL BRYAN W & NORMA J	1 RB1Q 112.1
G6	VIDIS MANUELA; VIDIS ANNETTE	1-RB1Q-112.2
H6	COULUNG GRANT CLARK & ROBERTA PAMLLA	1-RB1Q-112.3
I6	RAHBAR MAHMOOD & V G	1 RB1Q 112
J6	TOMER JEFFREY A	1 RB1Q 111
K6	LAMB GIBSON C & CAROLYN G	1-RB1Q-110
L6	KRAIL JESSIE K	1-RB1Q-109
M6	SMITH WAYNE R & CAROLYN L	1 RB1Q 108
N6	RICCI MICHAEL C & ANNE G	1 RB1Q 119
O6	VISNIC BENJAMIN P	1 RB1Q 126
P6	BANDI MARY DEE	1 RB1Q 107
Q6	PRASCIK MICHAEL J	1 RB1Q 122
R6	PRASCIK MICHAEL J	1-RB1Q-105
S6	WILISMLR ROBERT A JR; WALKER CAROLYN (RIO)	1-RB1Q-104.1
T6	VILLAGE OF BETHLEHEM	1-RB1-13
U6	VILLAGE OF BETHLEHEM	1-RB1-16.1
V6	VILLAGE OF BETHLEHEM	1-RB1-15
W6	MIRAMAR CORP	10-W52-18
X6	MIRAMAR CORPORATION	1 RB1F 2.2
Y6	BACHMANN MARK E	1 RB1F 2
Z6	ARMSTRONG RICHARD L	10 W61-64
A7	KANNIGLSSER LOGN & KANNIGLSSER CHRISTINE CLUTIER	10-W53-18.3
B7	CITY OF WHEELING	10-W53-105

*High-tighest Parcels may be impacted during drilling.

REVISIONS: 47-051-02557

COMPANY:



OPERATOR'S DAVID REINBEAU MSH

WELL #: 405H

DISTRICT:
UNION

COUNTY:
MARSHALL

STATE:
WV

DATE: 03-26-2025

DRAWN BY: N. MANO

SCALE: N/A

DRAWING NO:

WELL LOCATION PLAT 7

06/20/2025


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

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
E10	CITY OF WHEELING	10-W90-1.3
F10	CITY OF WHEELING	10-W90-1.1
G10	TAYLOR JOSEPH WILLIAM	1-RB1-20
H10	WILSON B E & S K	10-W90-1.4
I10	SWIGER JUSTIN A & STEPHANIE M	1-RB3-14
J10	MORRIS JAY R & TINA M	1-RB3-13
K10	HAMSEY BRYAN S & MICHELE A	1-RB3-7
L10	BAVHA DEBORAH S	1-RB3-6
M10	RAMOS SCOTT B & RAMOS AMY D	1-RB3-5
N10	BAKER MARK J & DAYNA M	1-RB3-4.1
O10	WARMAN JAMES J & CARRIL REDD	1-RB3-4
P10	WARMAN JAMES J & CARRIE REDD	1-RB3-3
Q10	CORNELL CHARLES D & LINDA J	1-RB2J-152
R10	POLSINELLI FRANK & POLSINELLI KIMBERLY A - TOD	1-RB2J-151
S10	BREIDING DORENE	1-RB2J-149
T10	CHAMBERLAIN DONALD	1-RB2-20.4
U10	TENNANT DORIS JEAN - TOD	1-RB2J-134
V10	SIIKO PAUL M JR & EDWINA	1-RB2J-133
W10	KOWALSKI CHESTER J TAMA A	1-RB2J-132
X10	SEALS CARLY R & ANDREW J SR	1-RB2J-131
Y10	BAUERLE RALPH & VICKI L	1-RB2J-20.8
Z10	GHAPHERY BRIAN A; GHAPHERY CHRISTINA W	1-RB2J-20.5
A11	WHEELING PROPERTIES CO; ADDI	1-RB2-18
B11	SNYDER JOHN J III & CASSANDRA L STARKEY	1-RB2J-20.6
C11	MCCORD JAMES R	1-RB2J-54
D11	DORFNER PATRICIA A	1-RB2J-10
E11	POTTS ANNE MARIE	1-RB2J-10.1
F11	DOWNER CAROLYN JO & ROBERT	1-RB2J-11
G11	LAURI GREGORY J	1-RB2J-51
H11	WILDMAN THURSL	1-RB2J-50
I11	OTTE SANDRA	1-RB2J-49
J11	KOEHL JAY M	1-RB2J-48
K11	ROTH JASON & TRACY	1-RB2J-16
L11	GODDARD RONALD L & JEAN E	1-RB2J-17
M11	ZUCCO ROD A	1-RB2J-18
N11	ARMSTRONG DANIEL J & SANORA L	1-RB2J-19
O11	HILLIARD SANDRA	1-RB2J-20
P11	HLHR LOUIS F	1-RB2J-21
Q11	HORES JACQUELINE & DONALD J JR	1-RB2J-22
R11	MATTUCCI MARK A JR	1-RB2J-23
S11	KUTROVAC JENNIFER A & GEORGE N	1-RB2J-24
T11	MEC ENTERPRISES INC	10-W90A-1
U11	BOARD OF COMM OHIO CO	10-W90-52
V11	TEAM SLEDD LLC	10-W90-46
W11	TEAM SLEDD LLC	10-W90-47
X11	CARROLL PATRICK J & JEAN A	10-W94-1.1
Y11	FARRILL SILPHIN V & CHRISTINE	10-W95-150
Z11	LEFTWICH NEIL & MCFARLAND JUDY	10-W95-151
A12	HALBOVSKY VICKI L; NICHERSON BRIAN D	10-W95-152
B12	TROSCH JUDITH S	10-W95-153
C12	DUKE MICHAEL S	10-W95-154
D12	HUGHES VICTORIA R	10-W95-155
E12	REMIAS WILLIAM P JR & REMIAS MARY F - TOD	10-W95-156
F12	ROBINSON MACIE	10-W95-157
G12	EBARB JANICE L	10-W95-158
H12	PALMER JAMES J & STACIE B	10-W95-159
I12	SILBER MICHAEL G & MARY C; C/O SILBER MARY C	10-W95-160
J12	ITICICH JOSEPH B & JOHNSTON W L	10-W95-161
K12	GUERRIERO ROSEMARY E	10-W95-162
L12	LLL HOBIN M	10-W95-163
M12	ICE CHARLES & ARLA D - TOD	10-W95-164
N12	SMITH BRANDON T	10-W95-168
O12	PLLUCHETTI L PAUL M & MIGHAN L HORAN	10-W95-194
P12	THUAX LLL D & CLUNE LARA S	10-W95-109.1
Q12	ZAMBITO ALFONSO J	10-W95-109.7
R12	SMITH DAVID & DIANE IRR TRST; SMITH DAVID L & DIANE K TEES	10-W95-109.8
S12	C J RYAN INC	10-W95-109.6
T12	MATYSKIELA ERIC & KRISTINA	10-W95-109.11
U12	NO NAME	10-W95-109.16
V12	SALEM THOMAS & PAULINE	10-W95-109.14
W12	NO NAME	10-W95-109.17
X12	GALARDI DIANE T	10-W95-109.3
Y12	CONTRAGUERRO R C & J A	10-W95-109.10
Z12	CONTRAGUERRO ROBERT C SR; JODY A	10-W95-109.13
A13	WHARTON PETER R ET AL	10-W95-109.15
B13	GUMP RENTALS LLC	10-W95-220
C13	GUMP RENTALS LLC	10-W95-219
D13	BUTTS RONALD M & TINA M	10-W95-219.1
E13	BUTTS RONALD M & TINA M	10-W95-218
F13	BUTTS RONALD M & TINA M	10-W95-217

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
G13	SHELEK DONALD W & CHRISTY L	10-W95-216
H13	DUNLEVY RICHARD B & JENNIFER L	10-W95-215
I13	WILSON CHERYL B	10-W95-214
J13	WILSON CHERYL B	10-W95-221
K13	BONACCI BRIAN F	10-W95-213
L13	DIETRICH THOMAS V & JUDITH L	10-W95-212
M13	RYAN C J INC	10-W95-211
N13	JOHNSON DANIEL J & JAMIE L	10-W95-210
O13	SMALL LAND HOLDINGS CO	10-W95-210.1
P13	DEJ TODD D & STACIE L	10-W95-209
Q13	MUSSER NATHAN M & AMBER L	10-W95-31
R13	CARDINAL HEALTH 110 LLC	10-W95-39.1
S13	PEKUNSKY CAROLINE B - TOD	10-W95-42
T13	BENTZ CHAD EDWARD & AMBER LYNN	10-W95-112.1
U13	WHEELER CHARLES D & DENISE M	10-W95-112.4
V13	PERONI CONSTRUCTION INC	10-W95-111.1
W13	PERONI CONSTRUCTION INC	10-W95-111
X13	PERONI LOUIS D & ELLEE M	10-W95-112.3
Y13	PERONI CONSTRUCTION INC	10-W95-39.2
Z13	WOJCIK STEPHEN E III & CRISTI	10-W95-41
A14	ROBRECHT RICHARD M & SUSAN L	10-W95-112.7
B14	ROBRECHT RICHARD M & SUSAN L	10-W95-112.8
C14	SHAPAKA PHILIP M & SHIRLEY B	13-2CC-42
D14	KARRAS JOHN M REVOCABLE TR	13-2CC-45
E14	KARRAS JOHN M REVOCABLE TR	13-2CC-44
F14	WHIPKEY ARCHIE W & RUTH A	13-2CC-43
G14	DOUGHERTY CHERYL FAMILY TRUST; CHERYL L DOUGHERTY TRUSTEE	10-W95-112.5
H14	VANAMAN ROBERT M & VICKI L	10-W95-112.6
I14	GILLESPIE DANIEL L & STEPHANIE H	10-W95-39.7
J14	WEBB DAVID & KATELYNN	16-2CC-39
K14	BENNETT LISA	16-2CC-38
L14	MEGALE WILLIAM B	16-2CC-37
M14	LAW CRYSTAL A & IVAN T	16-2CC-36
N14	GILSON MARJORIE J	16-2CC-35
O14	NARRISH ROBERT A	16-2CC-34
P14	EVANS LUTHER & LYNN M	16-2CC-33
Q14	PERONI CONSTRUCTION INC	13-2-17
R14	HOLDREN BARBARA	13-2-18
S14	NORRIS BRANDON C & CARLE LASUER	13-2-21.1
T14	GIBSON WILLIAM E	13-2-28
U14	GIBSON WILLIAM A	13-2-28.1
V14	KLUG PEGGY A - TOD	13-2-27
W14	GIBSON WILLIAM E	13-2-24
X14	GARVIN JOHN A	13-2-23
Y14	GIBSON DAVID T ET UX	13-2-24.1
Z14	FOLMAR EDITH A TRUST	13-3-1
A15	YANKO SARA & SCOTT	P-O 13-3-2
B15	HUGHES SEAN B	13-3-5.4
C15	HUGHES HEIDI SCHENK	13-3-5.2
D15	URACO MARK A & MARY D	12-1B-14
E15	MILLER LANCE H & SALLY J	12-1B-15
F15	VILLANOVA WILLIAM & BETTY	12-1B-19
G15	VILLANOVA WILLIAM & BETTY	12-1B-20
H15	CARPENTER MELISSA A & RANDAL L	12-1B-21.3
I15	BENNINGTON LINDA LEA - TOD	12-1B-21.4
J15	MARTIN BRIAN	12-1B-21
K15	MCADAMS DUSTIN	12-1B-21.1
L15	MCADAMS ROBERT E & JODY L	12-1B-27.1
M15	MAAS BRIAN J & AMY C - TRUST	13-3-8
N15	CONSOLIDATION COAL COMPANY; MURRAY ENERGY C/O LAND DEPT	13-3-7
O15	HART JOHN J & RENEE A	13-3-11
P15	ARCHEY HEATHER M	13-3-12.12
Q15	ARCHEY OLIVIA V	13-3-12.1
R15	BLACK KENNETH WILLIAM - TOD	13-3-12.9
S15	BLACK BONNIE J TRUST	13-3-12
T15	BENSON WILLIAM A & COLLEEN V	13-8-33
U15	BLACK BONNIE J TRUST	13-8-2

*Highlighted Parcels may be impacted during drilled.

06/20/2025

REVISIONS: 47-051-02557	COMPANY:		
	OPERATOR'S	DAVID REINBEAU MSH	DATE: 03-26-2025
	WELL #:	405H	DRAWN BY: N. MANO
	DISTRICT:	COUNTY:	SCALE: N/A
	UNION	MARSHALL	DRAWING NO:
		STATE: WV	WELL LOCATION PLAT 8

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

06/20/2025

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

06/20/2025

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

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

06/20/2025

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

06/20/2025

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

06/20/2025

EXHIBIT "A"					
David Reinbun MSH 40SH 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	%INTEREST NOT LEASED BY SWN PRODUCTION COMPANY, LLC
C9	10-0W61-0017-0000	Reynolds Owner (subject to unitization filing dated 03/31/2005)	N/A	N/A	N/A
		Alice MacCorkle Carrott	SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	1085107
			Expand Operating, LLC		*See Letter
		Blanche Steger Ellis	SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	10851186
			Expand Operating, LLC		*See Letter
		Carol B. MacCorkle	SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	108511
			Expand Operating, LLC		*See Letter
		Eric J. Sagendorph	SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	1084930
			Expand Operating, LLC		*See Letter
		George Lawrence Reymann	SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	108512
			Expand Operating, LLC		*See Letter
		Glenn R. Sagendorph	SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	1084455
F11	01-RB23-0011-0000		Expand Operating, LLC		*See Letter
		Juan D. Sagendorph	SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	108513
			Expand Operating, LLC		*See Letter
		Kurt Richard Sagendorph	SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	1084992
			Expand Operating, LLC		*See Letter
		Paul W. Sagendorph	SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	1084743
			Expand Operating, LLC		*See Letter
		William J. Steger, Jr.	SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	1082475
			Expand Operating, LLC		*See Letter
			SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	1026140
			Expand Operating, LLC		*See Letter
		25.00%			
*Co-tenancy utilization - At least 75% of the royalty interest 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 Patches - Patches that may be impacted during drilling.					
*Horizontal well unit utilization - Subject to unitization filing 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

4705102557



March 24, 2025

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

RE: Expand's proposed New Well: David Reinbeau MSH 405H in Marshall County, West Virginia, Drilling under Willow Drive, Henry Ave, Ruby Ave, and Flynn Ave.

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 Willow Drive, Henry Ave, Ruby Ave, and Flynn Ave. 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".

Gavin Nadeau, RPL
Staff Landman

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

Date of Notice Certification: 5/16

API No. 47- 051 -
Operator's Well No. David Reinbeau MSH 405H
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: West Virginia
County: 051-Marshall
District: Union
Quadrangle: Moundsville
Watershed: Holidays Run of Wheeling Creek

UTM NAD 83 Easting: 528,899.613
Northing: 4,427,004.180
Public Road Access: Sorghum Ridge Road
Generally used farm name: David Reinbeau MSH

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

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

*PLEASE CHECK ALL THAT APPLY

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

OOG OFFICE USE ONLY

- ☐ RECEIVED/
NOT REQUIRED
- ☒ RECEIVED
- ☐ RECEIVED/
NOT REQUIRED
- ☒ RECEIVED
- ☒ RECEIVED
- ☒ RECEIVED

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 person service, the return receipt card or other postal receipt for certified mailing.

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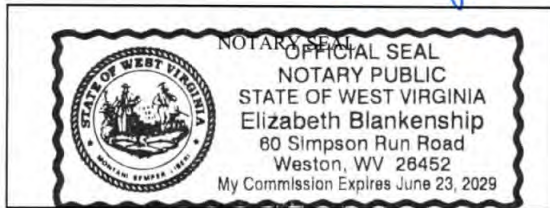
WV Department of
Environmental Protection
06/20/2025

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.

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

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

Date of Notice: 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: 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

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

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

Date of Notice: 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

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WV Department of
Environmental Protection

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Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

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Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pad shall 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 57th St. SE
Charleston, WV 25304
(304) 926-0450

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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.

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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.

06/20/2025

WW-6A
(8-13)

4705102557
API NO. 47- 051 -
OPERATOR WELL NO. David Reinbeau MSH 410H
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

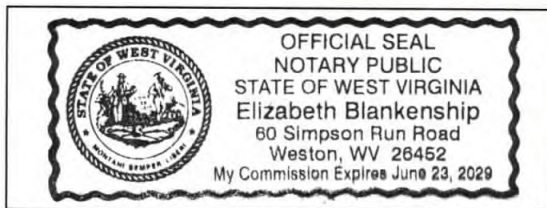
Address: 1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508

Facsimile: 304-884-1690

Oil and Gas Privacy Notice:

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



Subscribed and sworn before me this 25 day of March 2025.

Elizabeth Blankenship Notary Public

My Commission Expires 6/23/2029

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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.

Water Purveyor Map

SWN
Southwestern Energy

Created By: deans
Date Exported: 3/20/2025 10:13
Topical Reference
Name: WMO 1983 BLM Zone 17N RUS

4705102557

1500 ft. Buffer

Water Sources

- Type
- Spring
- Water Well
- Pond

WELL PAD:
DAVID REINBEAU-MSH-PAD1

COUNTY:
MARSHALL

0 140 280 560 840 1,120

Scale: 1:4,692

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4705102557

Attachment 13A

OWNER

Parcel ID

Address

City

State

REINBEAU SHELLY A & DAVID W

25-13-0008-0029-0000

651 Sorghum Ridge Road

Wheeling WV

MCCOMBS JOHN A SR, THOMAS E & BETH

25-13-0008-0026-0000

423 SORGHUM RIDGE RD

Wheeling WV

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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: 04/11/2025

Date Permit Application Filed: 5/11

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: 528,889.613
Northing: 4,427,004.180
Public Road Access: Sorghum Ridge
Generally used farm name: David Reinbeau

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WV Department of
Environmental Protection

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: Expand Energy Company, LLC

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

Telephone: (304) 209-5685

Email: steve.pauley@expandenergy.com

Facsimile: _____

Authorized Representative: Steven Pauley

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

Telephone: (304) 209-5685

Email: steve.pauley@expandenergy.com

Facsimile: _____

Oil and Gas Privacy Notice:

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

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: 04/11/2025 **Date Permit Application Filed:** 5/16

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

☒ CERTIFIED MAIL ☐ HAND
RETURN RECEIPT REQUESTED DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)

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

Name: 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(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: West Virginia
County: Marshall
District: Union
Quadrangle: Moundsville, WV
Watershed: Holidays Run of Wheeling Creek (HUC010)

UTM NAD 83 Easting: 528,899.613
 Northing: 4,427,004.180
Public Road Access: Sorghum Ridge
Generally used farm name: David Reinbeau

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This Notice Shall Include:

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

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

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

Oil and Gas Privacy Notice:

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

06/20/2025



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**WEST VIRGINIA
DEPARTMENT OF TRANSPORTATION**

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

Michael J. DeMers
Deputy Secretary of Transportation

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

May 2, 2025

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

Subject: DOH Permit for the 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 Reinbeau MSH 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,

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MAY 07 2025
WV Department of
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Lacy D. Pratt
Central Office O&G Coordinator

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

Attachment VI Frac Additives

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

As of 7/5/2023

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06/20/2025

OPERATOR: Expand Operating LLC WELL NO: David Reinbeau MSH 405H

PAD NAME: David Reinbeau MSH

REVIEWED BY: _____ SIGNATURE: Brittany Noddy

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

Well Restrictions

**Pad Built 4/17/13*

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

☐ DEP Waiver and Permit Conditions

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

☐ DEP Waiver and Permit Conditions

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

☐ DEP Waiver and Permit Conditions

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

☐ Surface Owner Waiver and Recorded with County Clerk, OR

☐ DEP Variance and Permit Conditions

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

☐ Surface Owner Waiver and Recorded with County Clerk, OR

☐ DEP Variance and Permit Conditions

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

☐ Surface Owner Waiver and Recorded with County Clerk, OR

☐ DEP Variance and Permit Conditions

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