



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

Monday, August 17, 2026
WELL WORK PERMIT
Horizontal 6A / New Drill

EXPAND OPERATING LLC
6100 N WESTERN AVE.

OKLAHOMA CITY, OK 73118

Re: Permit approval for Robert Young MSH 1H
47-051-02595-00-00

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

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

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

A handwritten signature in black ink, appearing to read 'Jason Harmon'.

H. Jason Harmon
Chief

Operator's Well Number: Robert Young MSH 1H
Farm Name: Robert L Young
U.S. WELL NUMBER: 47-051-02595-00-00
Horizontal 6A New Drill
Date Issued: 8/18/2026

PERMIT CONDITIONS

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

CONDITIONS

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

08/21/2026



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
dep.wv.gov

**ORDER
ISSUED UNDER
WEST VIRGINIA CODE, CHAPTER 22, ARTICLE 6A**

TO: Expand Operating LLC
6100 N Western Ave.
Oklahoma City, Oklahoma 73118

DATE: August 13, 2026
ORDER NO.: 2026-W-4

INTRODUCTION

This Order (hereinafter “Order”) is issued by the Office of Oil and Gas (hereinafter “OOG”), by and through its Chief, pursuant to the authority of W. Va. Code §§ 22-1-1, 22-6-1 and 22-6A-1 *et seq.* to Expand Operating LLC (here in after “Expand” or “Operator”), collectively the “Parties.”

FINDINGS OF THE CHIEF

In support of this Order, the Chief hereby finds the following:

1. OOG, an office within the West Virginia Department of Environmental Protection, is the agency with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 *et seq.*, and the rules and regulations promulgated thereunder.
2. Expand is a “person” as defined by W. Va. Code §22-6-1(n), with a corporate address as Expand Operating LLC, 6100 N Western Ave. Oklahoma City, Oklahoma 73118
3. On July 16, 2026, Expand submitted well work permit applications identified as API# 47-051-02595. The wells are located on the Robert Young Pad in the Webster District of Marshall County, West Virginia.
4. On August 12, 2026, Expand requested a waiver for Wetlands ASE_Wetland 02, 03 and 04 as outlined in Attachment 1, from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit applications identified as API# 47-051-02595.

CONCLUSIONS OF LAW

1. West Virginia Code §22-1-6(d) requires, in part, that “in addition to other powers, duties and responsibilities granted and assigned to the secretary by this chapter, the secretary is authorized and empowered to...(3) Enter private lands to make surveys and inspections for environmental protection purposes; to investigate for violations of statutes or rules which the Office of Oil and Gas is charged with enforcing; to serve and execute warrants and processes; to make arrests; issue orders, which for the purposes of this chapter include consent agreements; and to otherwise enforce the statutes or rules which the Office of Oil and Gas is charged with enforcing.”
2. West Virginia Code §22-6A-2(a)(6) requires, in part, that “Concomitant with the broad powers to condition the issuance of well work permits, the secretary should also have broad authority to waive certain minimum requirements of this article when, in his or her discretion, such waiver is appropriate: *Provided*, That the secretary shall submit a written report of the number of waivers granted to the Legislature commencing January 1, 2013, and each year thereafter.”
3. West Virginia Code §22-6A-12(b) requires, in part, that “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 Office of Oil and Gas 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 Office of Oil and Gas 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.”

ORDER

West Virginia Code §22-6A-12(b) requires, in part, that “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. The Office of Oil and Gas grants the request for a waiver for Wetlands ASE_ Wetland 02, 03 and 04 from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit applications identified as API# 47-051-02595. The Office of Oil and Gas hereby **ORDERS** that Expand shall meet the following site construction and operational requirements for the Robert Young Well Pad:

- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24”) in height;
- b. Erosion control measures shall be installed on all slopes and down gradient locations of the pad as erosion and sediment controlling BMPs;
- c. Wetlands ASE_ Wetland 02, 03 and 04 shall be protected by the pad perimeter berm and silt fence. This along with temporary and permanent vegetative cover will prevent sediment from reaching the wetlands and stream;
- d. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual;
- e. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill;
- f. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill;
- g. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls;
- h. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs;
- i. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (½”) rain within any twenty-four (24) hour period;
- j. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies;
- k. All records from inspections shall be maintained on site for the life of the project and be available upon request.

Thus ORDERED, the 13th day of August 2026.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

By: H. Jason
Harmon, PhD  Digitally signed by H. Jason
Harmon, PhD
Date: 2026.08.13 15:49:44
-04'00'

H JASON HARMON, CHIEF

WW-6B
(04/15)API NO. 47- 051 -
OPERATOR WELL NO. Robert Young MSH 1H
Well Pad Name: Robert Young 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 9-Webster 486-Moundsville
Operator ID County District Quadrangle
- 2) Operator's Well Number: Robert Young MSH 1H Well Pad Name: Robert Young MSH
- 3) Farm Name/Surface Owner: Robert L. Young Public Road Access: Stull Run Road
- 4) Elevation, current ground: 1235' Elevation, proposed post-construction: 1235'
- 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- 6484', Target Base TVD- 6536', Anticipated Thickness- 52', Associated Pressure- 4237
- 8) Proposed Total Vertical Depth: 6474'
- 9) Formation at Total Vertical Depth: Marcellus
- 10) Proposed Total Measured Depth: 7,161'
- 11) Proposed Horizontal Leg Length: 1656.19'
- 12) Approximate Fresh Water Strata Depths: 283'
- 13) Method to Determine Fresh Water Depths: Depth reported from nearby well
- 14) Approximate Saltwater Depths: 878' salinity profile
- 15) Approximate Coal Seam Depths: 762'
- 16) Approximate Depth to Possible Void (coal mine, karst, other): None that we are aware of.
- 17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes ☐ No ☒
- (a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

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STRADER
7/9/2026

WW-6B
(04/15)API NO. 47- 051 -
OPERATOR WELL NO. Robert Young MSH 1H
Well Pad Name: Robert Young 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	54.5#	812'	812'	935 sx/CTS
Coal	See	Surface	Casing				
Intermediate	9 5/8"	New	J-55	36#	2500'	2500'	973 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	7161'	7161'	Tail 928sx/ 100' inside Intermediate
Tubing							
Liners							

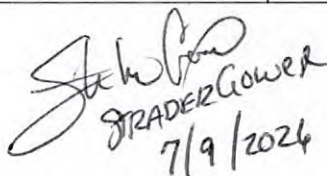
TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	30"	0.25	2120	81	Class A	1.20/30% Excess
Fresh Water	13 3/8"	17.5"	0.330	1730	633	Class A	1.20/30% Excess
Coal	See	Surface	Casing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

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Environmental Protection

Kind:				
Sizes:				
Depths Set:				


 STRADER GOWER
 7/9/2026

WW-6B
(10/14)

API NO. 47- 051 -
OPERATOR WELL NO. Robert Young MSH 1H
Well Pad Name: Robert Young 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): 13.84

22) Area to be disturbed for well pad only, less access road (acres): 2.27

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.

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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.

CEMENT ADDITIVES						
INTERVAL	SCHLUMBERGER PRODUCT NAME	BJ PRODUCT NAME	NEXTIER PRODUCT NAME	PRODUCT USE	CHEMICAL NAME	CAS-Number
SURFACE (FRESHWATER) up to 3%		INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	S001	A-7P	0110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
COAL PROTECTION up to 3%		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		VISCO FIER/ANTI- SETTLING AGENT	REFINED POLYMER/ CHRYSTALLINE SILICA	PROPRIETARY
	D198	R-3		CEMENT RETARDER	LIGNIN	8068-51-6
	SUGAR	SUGAR	CJ795	CEMENT RETARDER	SUCROSE	57-50-1
	D065			DISPERSANT	SODIUM POLYNAPHTHALENE SULFONATE	8068-51-6
	D800			CEMENT RETARDER (Mid-Temperature)	SODIUM LIGNOSULFONATE	8061-51-6

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Expand Energy				Proposed Drilling Program	
Well:	Robert Young MSH 1H			Drilling Rig:	EDC 41
Field:	Panhandle Field Wet			Formation:	Marcellus Shale
County:	Marshall			State:	WV
SHL (NAD83):	39.930380 Latitude		-80.633164 Longitude		
BHL (NAD83):	39.928921 Latitude		-80.638898 Longitude		
KB Elev:	1,261 ft MSL	KB Height: 26 ft AGL		GL Elev:	1,235 ft MSL

The diagram illustrates the proposed drilling program for Well Robert Young MSH 1H. It shows a vertical wellbore profile with various casing strings and their depths. The total depth (TD) is 7,161' MD, with a target center at 6,474' TVD. The well is located in Marshall County, WV, near the intersection of SHL and BHL (NAD83). The KB elevation is 1,261 ft MSL, and the GL elevation is 1,235 ft MSL. The wellbore is divided into sections by casing strings: Conductor (0' to 136'), Surface/Coal (136' to 812'), Intermediate (812' to 2,500'), and Production (2,500' to 7,161'). The production section is further divided into three intervals: 2,500' to 2,520' (Air/Mist), 2,520' to 6,044' (Air/Mist), and 6,044' to 7,061' (11.5-12.5 ppg). The bottom section is 7,061' to 7,161' (12.0-13.5 ppg). The wellbore is labeled as 'NO COAL VOID EXPECTED'. The KOP is at 6,044' MD. The Freshwater Depth is 283' TVD, Coal Depth is 762' TVD, Saltwater Depth is 878' TVD, TVD is 6,474', and TMD is 7,161'.

Casing String	Casing Size (in)	Weight (Min)	Grade (Min)	Planned Interval	
				From	To
Conductor	20	94.0 #	J-55	0'	136'
Surface/Coal	13.375	54.5 #	J-55	0'	812'
Intermediate	9.625	36.0 #	J-55	0'	2,500'
Production	5.5	20.0 #	P-110 HP	0'	7,161'

	Sacks	Class	Density
Conductor	173	A	19.3
Surface	935	A	15.6
Intermediate	973	A	15.6
Production	928	A	14.5-15.0

Production TOC @ 2,500' MD

Onondaga: 6,535' TVD

LP: 7,061' MD

KOP at 6,044' MD

Freshwater Depth - 283' TVD
Coal Depth - 762' TVD
Saltwater Depth - 878' TVD
TVD - 6,474'
TMD - 7,161'

6,474' TVD Target Center

TD: 7,161' MD
6,474' TVD

136' to 832'
↓
Air/Mist
832' to 2,520'
↓
Air/Mist
2,520' to 6,044'
↓
Air/Mist
TD at 6,044'
6,044' to 7,061'
↓
11.5-12.5 ppg
7,061' to 7,161'
↓
12.0-13.5 ppg

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Strader Gower
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7/9/2024

08/21/2026



Brittany Woody
Senior Regulatory Analyst

July 6, 2026

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

RE: Proposed New Well: Robert Young MSH

Dear Mr. Brewer:

Expand has reviewed the area of the above-mentioned well and discovered no shallow wells within 500' of the lateral. This well is situated on the Robert Young property, in Webster District, Marshall County, West Virginia.

Please feel free to contact me at 304-209-5688 with any questions or comments. You may also contact the West Virginia Office of Oil and Gas at 304-928-0440.

Sincerely,

A handwritten signature in cursive script that reads "Brittany Woody".

Brittany Woody
Senior Regulatory Analyst
Expand Energy

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WW-9
(4/16)

API Number 47 - 051 -

Operator's Well No. Robert Young MSH 1H

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

Office of Oil and Gas

JUL 16 2026

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Expand Operating LLCOP Code 494533012 WV Department of Environmental ProtectionWatershed (HUC 10) Wheeling CreekQuadrangle MoundsvilleDo 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 3ADrilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air drill to KOP, fluid drill with SOBM from KOP to TD-If oil based, what type? Synthetic, petroleum, etc. Synthetic Oil BaseAdditives to be used in drilling medium? Attachment 3BDrill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. landfill

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

-Landfill or offsite name/permit number? Meadowfill SWF- 1032, Short Creek SWF-1034, Carbon Limestone MSWL018781, Wetzel County 1021Apex 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 WoodyCompany Official (Typed Name) Brittany WoodyCompany Official Title Senior Regulatory AnalystSubscribed and sworn before me this 14 day of June, 20 26My commission expires 6/23/2029

Notary Public



Form WW-9

Operator's Well No. Robert Young MSH 1HExpand Operating LLCProposed Revegetation Treatment: Acres Disturbed 13.84 Prevegetation pH _____Lime as determined by pH test min.2 Tons/acre or to correct to pH 2.27Fertilizer type 10-20-20Fertilizer amount 600/500 lbs/acreMulch Hay/Straw Tons/acreRECEIVED
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Environmental ProtectionSeed 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: _____

Title: Oil & Gas Inspector

Date:

7/9/2024

Field Reviewed?

☒ Yes☐ No

08/21/2026

JUL 16 2026

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Environmental Protection

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)

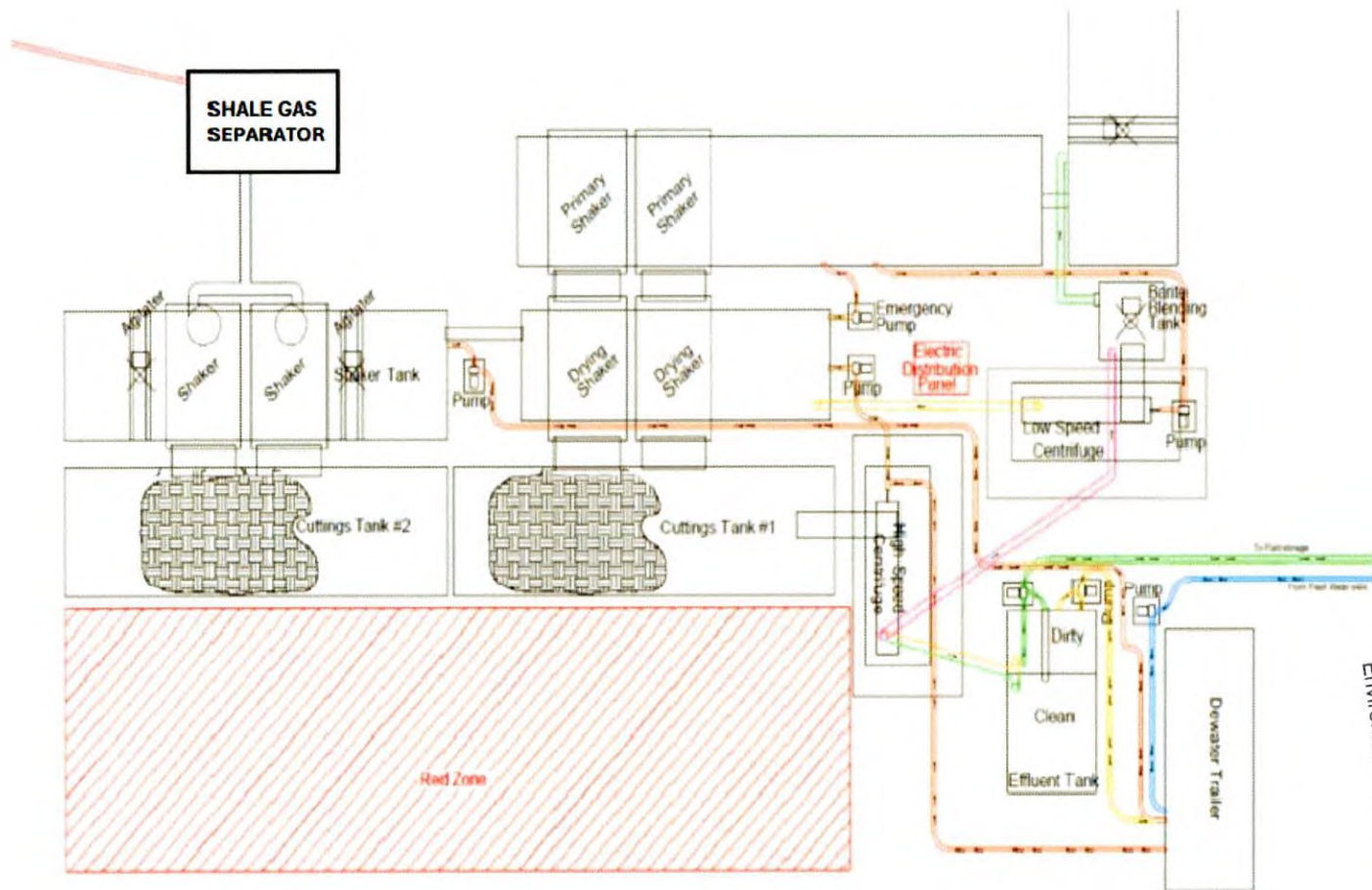
When drilling is converted to liquids drilling, the Shale Gas Separator and associated shaker tank are bypassed, and the liquids system is processed over the primary and drying shaker systems. Cuttings drop into the cuttings tank for additional processing. Any recoverable associated liquids attached 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.

3.10.2025

08/21/2026

Solids Control Layout

expand



EXAMPLE SCHEMATIC FOR CLOSED LOOP SOLIDS CONTROL SYSTEM

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JUL 16 2026

WV Department of
Environmental Protection

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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Office of Oil and Gas

JUL 16 2026

WV Department of
Environmental Protection

08/21/2026

Attachment 3C



WVD Seeding Specification

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

NON-ORGANIC PROPERTIES

Seed Mixture: ROW Mix	SWN Supplied	
Orchardgrass	40%	
Timothy	15%	
Annual Ryegrass	15%	
Brown Top Millet	5%	
Red Top	5%	
Medium Red Clover	5%	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 Expand supervision at the beginning of the project to allow time for special seed delivery.

ORGANIC PROPERTIES

Seed Mixture: Expand Production Organic Mix	Expand Supplied
Organic Timothy	50%
Organic Red or White Clover	50%
OR	
Organic Perennial Ryegrass	50%
Organic Red or White Clover	50%
Apply @ 100lbs per acre April 16th- Oct. 14th	Apply @ 200lbs per acre Oct. 15th- April 15th
Organic Fertilizer @ 200lbs per Acre	Pelletized Lime @ 2 Tons per Acre

WETLANDS (delineated as jurisdictional wetlands)

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

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

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

NO FERTILIZER OR LIME INSIDE WETLAND LIMITS

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Office of Oil and Gas
JUL 16 2026
WV Department of
Environmental Protection

MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN



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

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Office of Oil and Gas

JUL 16 2026

WV Department of
Environmental Protection

API NO. 47-XXX-XXXXX
WELL NAME: Robert Young MSH 1H
Moundsville QUAD
Webster DISTRICT
MARSHALL COUNTY, WEST VIRGINIA

Submitted by:

Name: Brittany Woody

Brittany Woody

Date: 6/8/2026

Title: Senior Regulatory Analyst

Expand Energy

Approved by:

Name: STRADER GOWER

Date: 7/9/2024

Title: OIL & GAS INSPECTOR

Approved by:

Name: _____

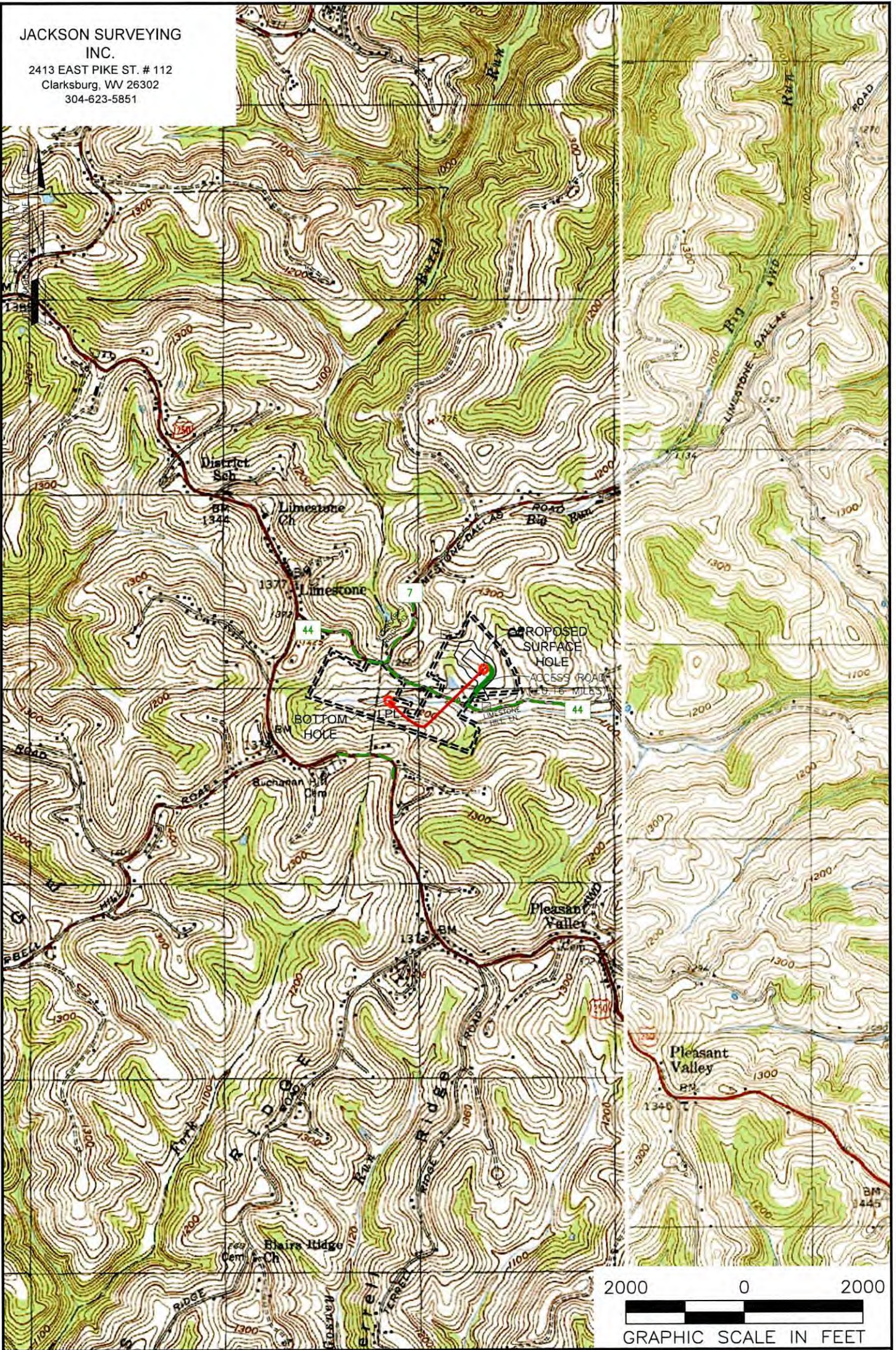
Date: _____

Title: _____

Expand Energy – CONFIDENTIAL

08/21/2026

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.

RECEIVED
Office of Oil and Gas
JUL 16 2026

LEGEND:

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

WELL OPERATOR:
EXPAND OPERATING LLC

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

SURFACE OWNER:
ROBERT L. YOUNG

WV Department of
Environmental Protection

WELL (FARM) NAME:
ROBERT YOUNG MSH

COUNTY - CODE
MARSHALL - 051

USGS 7 1/2 QUADRANGLE MAP NAME
MOUNDSVILLE, WV

WELL # SERIAL #
1H

DISTRICT;
WEBSTER

API #:
47-051- 02595

JACKSON SURVEYING
INC.

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

SURFACE HOLE LOCATION (SHL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,420,094.481
EASTING: 531,344.833

LANDING POINT LOCATION (LPL):

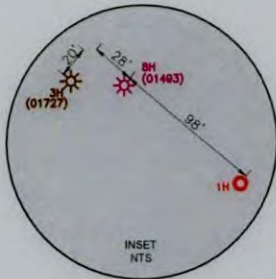
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,419,907.849
EASTING: 530,875.794

BOTTOM HOLE LOCATION (BHL):

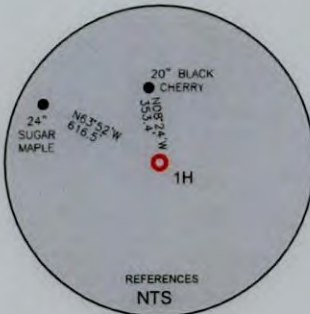
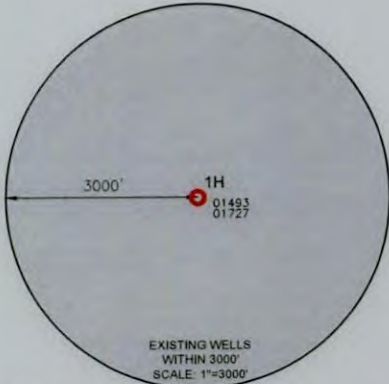
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,419,930.599
EASTING: 530,855.531

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 49°00'47" W	866.42'	SHL TO LANDMARK	1/2" REBAR FOUND
L2	S 03°50'16" E	653.50'	SHL TO LANDMARK	1/2" IRON PIPE FD
L4	N 41°41'26" W	99.95'	LPL TO BHL	
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	S 68°18'08" W	1656.19'	2,077.10'	SHL TO LPL

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



*SEE PAGE 2 FOR BLOW-UP



WELL RESTRICTIONS

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

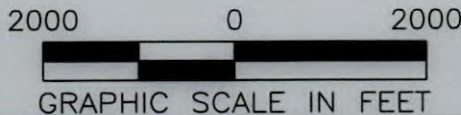
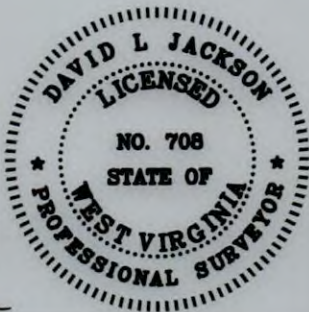
NOTES ON SURVEY

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

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

P.S. 708

David L Jackson



COMPANY:

expand



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

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

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

ROBERT YOUNG MSH
OPERATOR'S WELL #: 1H

API WELL #: 47 051 02595
STATE COUNTY PERMIT

WELL TYPE: OIL ☐ WASTE DISPOSAL ☐ PRODUCTION ☒ DEEP ☐ GAS ☒ LIQUID INJECTION ☐ STORAGE ☐ SHALLOW ☒	ELEVATION: 1235.0'
WATERSHED: WHEELING CREEK (HUC-10)	QUADRANGLE: MOUNDSVILLE, WV
DISTRICT: WEBSTER	ACREAGE: ±29.864
COUNTY: MARSHALL	ACREAGE: ±29.864
SURFACE OWNER: ROBERT L. YOUNG	
OIL & GAS ROYALTY OWNER: ROBERT L. YOUNG	
DRILL ☒ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☒ PLUG OFF OLD FORMATION ☐ PERFORATE NEW FORMATION ☐	
CONVERT ☐ PLUG & ABANDON ☐ CLEAN OUT & REPLUG ☐ OTHER CHANGE ☐ (SPECIFY)	08/21/2026
TARGET FORMATION: MARCELLUS	ESTIMATED DEPTH: 6,474' TVD 7,161' TMD

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

LEGEND: 	 	REVISIONS: DATE: 06-18-2026 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

WELL BORE TRACTS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	YOUNG ROBERT L ET UX (S/R)	15-7-8
TRACT	SURFACE OWNER (S)	TAX PARCEL
2	YOUNG ROBERT L & KATHY J (S)	15-7-8.5
3	KITTLE JOSEPH LEROY (S)	15-7-8.2
4	WALKER MARK & ELIZABETH (S)	14-6-13.3

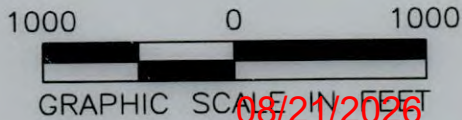
ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	GEETA	15-7-7
B	MYERS MAUREEN HERTZ ET AL	15-7-7.1
C	NORMAN BRIAN K & STACEY A	15-7-8.8
D	NORMAN BRIAN K & STACEY A	15-7-8.6
E	YOUNG BRIA LYNN	15-7-8.7
F	YOUNG ROBERT L ET UX	15-7-8.3
G	RAGHUVANSHI MONIKA & SINGH VIVEK	15-8-9.1
H	EDDY ROGER L ET UX	15-7-11
I	LYONS-TATE ABIGAYLE GRACE	14-6-15
J	FRYE JORDAN S & JAYNE L	14-6-14
K	BIERCE JOHN A	14-6-18.4
L	GRANDON ERIC S & NICOLE G	14-6-8
M	LILLEY NANCY V-TOD	14-6-12
N	BLAKE GERALD H & HEATHER L	14-6-13
O	WALKER JACOB M	14-5-79
P	WALKER LLOYD E & MARGARET A	15-7-31
Q	WALKER MICHAEL A	14-6-42
R	KITTLE JOSEPH LEROY	15-7-9
S	YOUNG ROBERT L & KATHY JO	15-7-8.1
T	WALKER LLOYD E & MARGARET A	15-7-32
U	STORCH ROBERT A	15-7-6.7



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:

COMPANY:

expand

OPERATOR'S

ROBERT YOUNG MSH

API #:

47-051-02595

DATE: 06-18-2026

WELL #:

1H

DRAWN BY: N. MANO

DISTRICT:

COUNTY:

STATE:

SCALE: 1" = 1000'

WEBSTER

MARSHALL

WV

DRAWING NO:

WELL LOCATION PLAT 2

WW-6A1
(5/13)

Operator's Well No. Robert Young MSH 1H

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

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

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

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

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

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

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

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

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

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

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

Well Operator: Expand Operating LLC

By: Kelley Ryan *Kelley Ryan*

Its: Landman II

EXHIBIT "A" Robert Young MSH 1H Marshall County, West Virginia Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by Expand Operating LLC, Operator						
#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG	% INTEREST NOT LEASED BY EXPAND APPALACHIA LLC
1	15-7-8	Robert L Young & Kathy J Young, husband and wife	Chesapeake Appalachia LLC SWN Production LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	685/412 33/110 1094/490	0%
2	15-7-8.5	Sandra C Koontz, f/k/a Sandra Carol Parsons, widow	Chesapeake Appalachia LLC SWN Production LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	740/152 33/110 1094/490	0%
		Hilda Mae Kittle (Life Tenant), a widow appearing herein by and through Elizabeth Jane Snyder, her Agent and Attorney In Fact, Power of Attorney dated November 18, 2003, Elizabeth Jane Snyder (Remainderman), married and doing business in her sole and separate right	Chesapeake Appalachia LLC SWN Production LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	738/432 33/110 1094/490	
		Rebecca Ann Haley, (Remainderman), married and doing business in her sole and separate right	Chesapeake Appalachia LLC SWN Production LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	740/157 33/110 1094/490	
		Terry Wayne Kittle, (Remainderman), and Deborah Kittle, husband and wife	Chesapeake Appalachia LLC SWN Production LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	741/564 33/110 1094/490	
		Joseph Leroy Kittle, (Remainderman), married and doing business in his sole and separate right	Chesapeake Appalachia LLC SWN Production LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	741/569 33/110 1094/490	
		Kristine L. Truta, Divorced and unremarried	Chesapeake Appalachia LLC SWN Production LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	747/116 33/110 1094/490	
		Gregor J. Bjork and Carol Bjork, his wife	Chesapeake Appalachia LLC SWN Production LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	747/121 33/110 1094/490	
		Lawrence K Bjork and Erica Bjork, husband and wife	Chesapeake Appalachia LLC SWN Production LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	749/306 33/110 1094/490	0%
		Ruby Mae Kittle	Chesapeake Appalachia LLC SWN Production LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	688/449 33/110 1094/490	
3	15-7-8.2	Elizabeth Jane Snyder (Remainderman) married and doing business in her sole and separate right	Chesapeake Appalachia LLC SWN Production LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	750/393 33/110 1094/490	0%
		Joseph Leroy Kittle, (Remainderman), married and doing business in his sole and separate right	Chesapeake Appalachia LLC SWN Production LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	750/388 33/110 1094/490	
		Rebecca Ann Haley, (Remainderman), married and doing business in her sole and separate right	Chesapeake Appalachia LLC SWN Production LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	750/398 33/110 1094/490	
		Terry Wayne Kittle, (Remainderman), and Deborah Kittle, husband and wife	Chesapeake Appalachia LLC SWN Production LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	753/517 33/110 1094/490	
		Sandra C Koontz, f/k/a Sandra Carol Parsons, widow	Chesapeake Appalachia LLC SWN Production LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	753/522 33/110 1094/490	
4	14-6-13.3	Helen M. Young	Great Lakes Energy Partners, L.L.C. Range Resources - Appalachia LLC Chesapeake Appalachia LLC SWN Production LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	661/636 19/443 23/368 33/110 1094/490	0%
*Co-tenancy utilization - At least 75% of the royalty owners have consented to the lawful use or development of the oil or natural gas mineral property on the tract. The interests of the remaining co-tenants will *Horizontal well unit utilization - Subject to unitization filing with the West Virginia Oil and Gas Conservation Commission. *Potentially impacted Parcels - Parcels that may be impacted during drilling.						
End of Exhibit "A"						

08/21/2026



July 9, 2026

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

RE: Expand's proposed New Well: Robert Young MSH 1H in Marshall County, West Virginia, Drilling under Limestone Hill Lane.

Dear Mr. Brewer:

Expand Operating LLC 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 Limestone Hill Lane. Please be advised that Expand has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Thank you.

Sincerely,

A handwritten signature in black ink that reads "Kelley Ryan". The signature is written in a cursive, flowing style.

Kelley Ryan
Landman II – SW Appalachia Division
Expand Operating LLC

Expand Energy Corporation

10000 Energy Drive / Spring, Texas 77389
(346) 535-0892 / Kelley.Ryan@ExpandEnergy.com

08/21/2026

WW-6AC
(1/12)

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

Date of Notice Certification: 7/13

API No. 47- 051 - _____
Operator's Well No. Robert Young MSH 1H
Well Pad Name: Robert Young MSH

Notice has been given:

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

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>531,344.833</u>
County: <u>051-Marshall</u>	Northing: <u>4,420,094.481</u>
District: <u>Webster</u>	Public Road Access: <u>Stull Run Road</u>
Quadrangle: <u>Moundsville</u>	Generally used farm name: <u>Robert Young</u>
Watershed: <u>Wheeling Creek</u>	

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

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

*PLEASE CHECK ALL THAT APPLY

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

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JUL 16 2026

WV Department of
Environmental Protection

OOG OFFICE USE ONLY

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NOT REQUIRED

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NOT REQUIRED

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

08/21/2026

WW-6AC
(1/12)

Certification of Notice is hereby given:

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

Well Operator: Expand Operating LLC

By: Brittany Woody

Its: Senior Regulatory Analyst

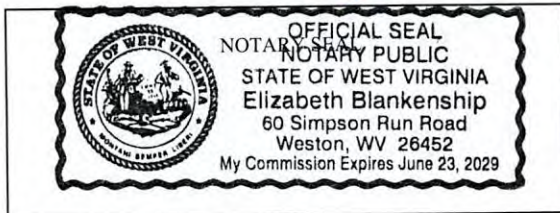
Telephone: 304-209-5688

Address: 1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508

Facsimile: 304-884-1690

Email: Brittany.Woody@expandenergy.com



Subscribed and sworn before me this 11 day of June 2026.
Elizabeth Blankenship Notary Public
My Commission Expires 6/23/2029

Oil and Gas Privacy Notice:

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

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JUL 16 2026

WV Department of
Environmental Protection

08/21/2026

WW-6A
(9-13)API NO. 47- 051 -
OPERATOR WELL NO. Robert Young MSH 1H
Well Pad Name: Robert Young MSH

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

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

Date of Notice: 7/13 **Date Permit Application Filed:** 7/13

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: Robert L. & Kathy Jo Young

Address: 182 Limestone Hill Lane

Moundsville WV 26041

Name: Brian & Stacey Norman

Address: 322 Limestone Hill Lane

Moundsville WV 26041

☐ 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 Resources Attn: Steve Bair

Address: 46226 National Road

St. Clairsville OH 43950

☐ COAL OPERATOR

Name: _____

Address: _____

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

Name: See Attachment 13A

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

08/21/2026

WW-6A
(8-13)

API NO. 47- 051 -
OPERATOR WELL NO. Robert Young MSH 1H
Well Pad Name: Robert Young MSH

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

08/21/2026

WW-6A
(8-13)

API NO. 47- 051 -
OPERATOR WELL NO. Robert Young MSH 1H
Well Pad Name: Robert Young MSH

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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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.**

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WW-6A
(8-13)

API NO. 47- 051 -
OPERATOR WELL NO. Robert Young MSH 1H
Well Pad Name: Robert Young MSH

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

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08/21/2026

WW-6A
(8-13)

API NO. 47- 051 -
OPERATOR WELL NO. Robert Young MSH 1H
Well Pad Name: Robert Young MSH

Notice is hereby given by:

Well Operator: Expand Operating LLC

Telephone: 304-209-5688

Email: Brittany.Woody@expandenergy.com

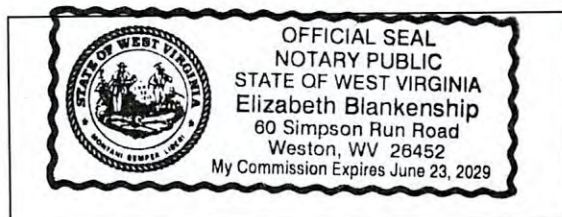
Address: 1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508

Facsimile: 304-884-1690

Oil and Gas Privacy Notice:

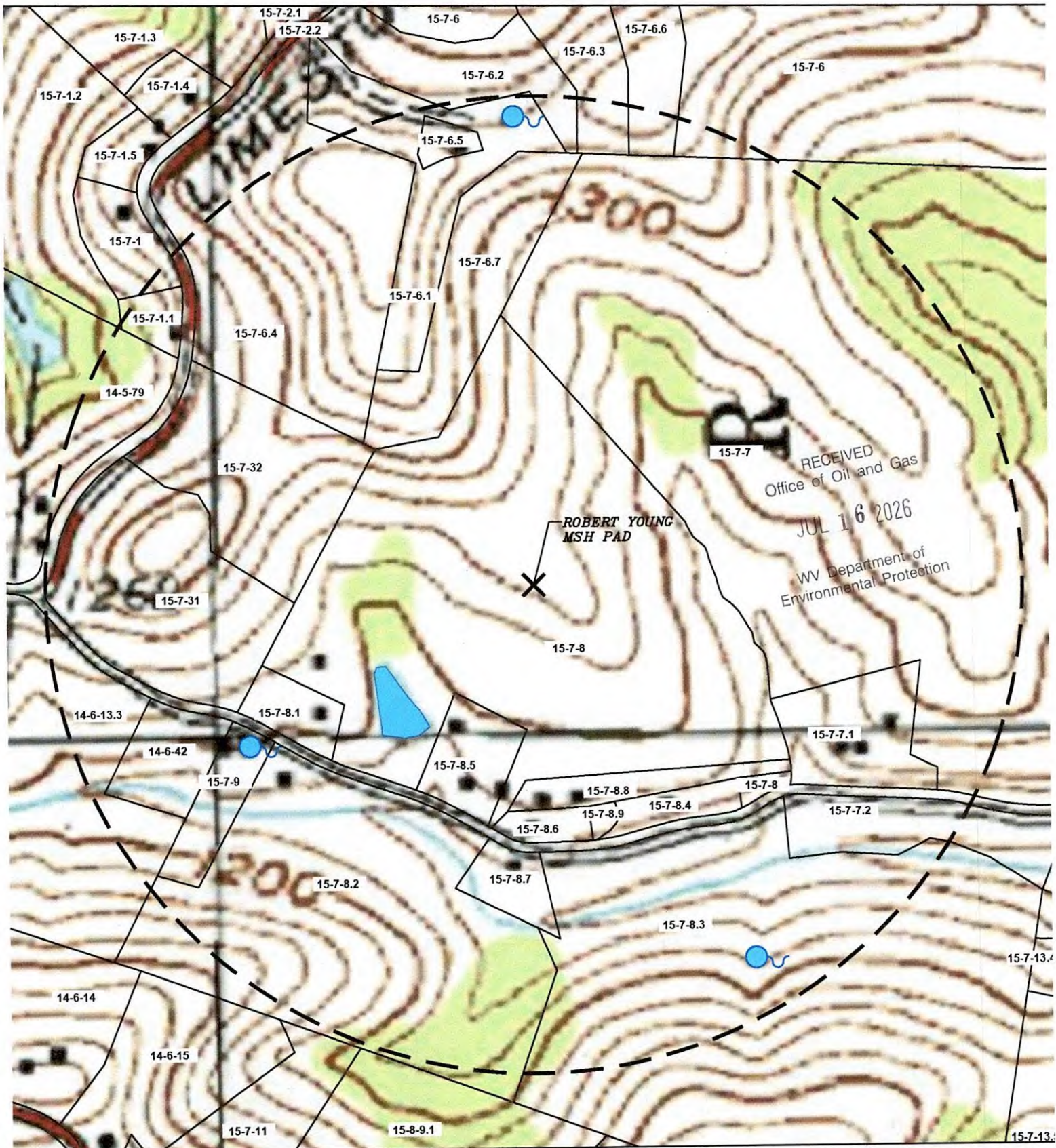
The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory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

Subscribed and sworn before me this 11 day of June 2026.Elizabeth Blankenship Notary Public
My Commission Expires 6/23/2029

08/21/2026

SHORT_PARCEL_ID	OWNER	OWNER_ADDRESS	OWNER_CITY	OWNER_ZIP	OWNER_STATE	OWNER_COUNTY
15-7-8.3	YOUNG ROBERT L ET UX	182 LIMESTONE HILL LN	MOUNDSVILLE	26582	WV	MARSHALL
15-7-8	YOUNG ROBERT L ET UX	182 LIMESTONE HILL LN	MOUNDSVILLE	26582	WV	MARSHALL
15-7-9	KITTLE JOSEPH LEROY	177 LIMESTONE HILL LN	MOUNDSVILLE	26582	WV	MARSHALL
15-7-6.1	STORCH ROBERT A	769 MCREARYS RIDGE RD	MOUNDSVILLE	26582	WV	MARSHALL

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

Water Purveyor Map

Created By: Nick Mano
Date Exported: 06/16/2026

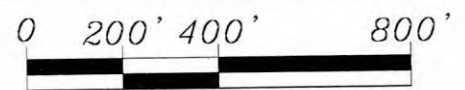
expand

Spatial Reference
Name: UTM NAD83 17 FT



WELL PAD:
ROBERT YOUNG MSH

COUNTY:
MARSHALL



Scale: 1" = 100'

08/21/2026

WW-6A3
(1/12)

Operator Well No. _____

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

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

Date of Notice: 5/18/26 **Date of Planned Entry:** 5/25/26

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

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

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

Notice is hereby provided to:

☒ SURFACE OWNER(s)

Name: Robert L. & Kathy Jo Young
 Address: 182 Limestone Hill Lane
Moundsville WV 26041

Name: Brian & Stacey Norman
 Address: 322 Limestone Hill Lane
Moundsville WV 26041

Name: _____
 Address: _____

☒ COAL OWNER OR LESSEE

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

☒ MINERAL OWNER(s)

Name: Robert L. & Kathy Jo Young
 Address: 182 Limestone Hill Lane
Moundsville WV 26041

*please attach additional forms if necessary

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WV Department of
Environmental Protection

Notice is hereby given:

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

State: West Virginia
 County: Marshall
 District: Webster
 Quadrangle: Moundsville

Approx. Latitude & Longitude: 39.930477, -80.633629
 Public Road Access: Stull Run Road
 Watershed: Wheeling Creek
 Generally used farm name: Robert Young MSH

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

Notice is hereby given by:

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

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

Facsimile: _____

Oil and Gas Privacy Notice:

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

08/21/2026

WW-6A4
(1/12)Operator Well No. ROBERT YOUNG MSK 1H

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: 6/17/26 **Date Permit Application Filed:** 7/1/23

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: Robert and Kathy Young
 Address: 182 Limestone Hill Lane
Moundsville, WV 26041

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: <u>West Virginia</u>	UTM NAD 83 Easting: <u>531,344.833</u>
County: <u>Marshall</u>	Northing: <u>4,420,094.481</u>
District: <u>Webster</u>	Public Road Access: <u>Limestone Hill Lane</u>
Quadrangle: <u>Moundsville</u>	Generally used farm name: <u>Robert Young</u>
Watershed: <u>Wheeling Creek (HUC-10)</u>	

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: _____
 Email: _____
 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.

08/21/2026

WW-6A5
(1/12)Operator Well No. ROBERT YOUNG MSH 1H

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: 6/11/13 **Date Permit Application Filed:** 7/1/13

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: Robert and Kathy Young
 Address: 182 Limestone Hill Lane
Moundsville, WV 26041

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: Webster
 Quadrangle: Moundsville
 Watershed: Wheeling (HUC-10)

UTM NAD 83 Easting: 531,344.833
 Northing: 4,420,094.481
 Public Road Access: Limestone Hill Lane
 Generally used farm name: Robert Young

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.

RECEIVED
 Office of Oil and Gas

JUL 16 2026

WV Department of
 Environmental Protection

08/21/2026

WW-6A4
(1/12)Operator Well No. ROBERT YOUNG MSK 1H

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: 6/17/26 **Date Permit Application Filed:** 7/13

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: Brian and Stacey Norman
 Address: 322 Limestone Hill Lane
Moundsville, WV 26041

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: <u>West Virginia</u>	UTM NAD 83 Easting: <u>531,344.833</u>
County: <u>Marshall</u>	Northing: <u>4,420,094.481</u>
District: <u>Webster</u>	Public Road Access: <u>Limestone Hill Lane</u>
Quadrangle: <u>Moundsville</u>	Generally used farm name: <u>Robert Young</u>
Watershed: <u>Wheeling Creek (HUC-10)</u>	

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: _____
 Email: _____
 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: _____

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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.

RECEIVED
 Office of Oil and Gas

JUL 16 2026

08/21/2026
 WV Department of
 Environmental Protection

WW-6A5
(1/12)

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 4/17/26 **Date Permit Application Filed:** 7/1/23

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

☒ **CERTIFIED MAIL**
RETURN RECEIPT REQUESTED

☐ **HAND**
DELIVERY

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

RECEIVED
Office of Oil and Gas

JUL 16 2026

WV Department of
Environmental Protection

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: Brian and Stacey Norman
Address: 322 Limestone Hill Lane
Moundsville, WV 26041

Name: _____
Address: _____

Notice is hereby given:

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

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>531,344.833</u>
County:	<u>Marshall</u>		Northing:	<u>4,420,094.481</u>
District:	<u>Webster</u>	Public Road Access:	<u>Limestone Hill Lane</u>	
Quadrangle:	<u>Moundsville</u>	Generally used farm name:	<u>Robert Young</u>	
Watershed:	<u>Wheeling (HUC-10)</u>			

This Notice Shall Include:

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

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

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

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Office of Oil and Gas

JUL 16 2026

WV Department of
Environmental Protection

08/21/2026



**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 5, 2026

Jason Harmon, Chief
Office of Oil and Gas
Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304

RECEIVED
Office of Oil and Gas

JUL 16 2026

WV Department of
Environmental Protection

Subject: DOH Permit for the Robert Young Well Pad, Marshall County
Robert Young MSH 1H Well Site Robert Young MSH 201H Well Site
Robert Young MSH 10H Well Site Robert Young MSH 210H Well Site
Robert Young MSH 410H Well Site Robert Young MSH 610H Well Site

Dear Mr. Harmon,

This well site will be accessed from a DOH permit #06-2011-0384 which has been transferred to Expand Operating, LLC for access to the State Road for a well site located off Marshall County Route 44 SLS MP 0.65.

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

Very Truly Yours,

Lacy D. Pratt
Central Office O&G Coordinator

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

Attachment VI Frac Additives

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

As of 7/5/2023

RECEIVED
Office of Oil and Gas

JUL 16 2026

WV Department of
Environmental Protection

08/21/2026

WW-6A7
(6-12)

OPERATOR: Expand Operating LLC

WELL NO: Robert Young MSH 1H

PAD NAME: Robert Young MSH

REVIEWED BY: _____

SIGNATURE: _____

Brittany Nbody

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

Well Restrictions

****Pad Built**

1/19/12

RECEIVED
Office of Oil and Gas
JUL 16 2026
WV Department of
Environmental Protection

- ☐ 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

08/21/2026

ROBERT YOUNG WELL PAD SITE DESIGN & CONSTRUCTION PLAN, EROSION & SEDIMENT CONTROL PLANS

WEBSTER DISTRICT, MARSHALL COUNTY, WEST VIRGINIA
UPPER WHEELING CREEK WATERSHED

LOCATION COORDINATES:

ACCESS ROAD ENTRANCE
LATITUDE: 39.928676 LONGITUDE: -80.634143 (NAD 83)
LATITUDE: 39.928600 LONGITUDE: -80.634342 (NAD 27)
N 4419905.04 E 531261.92 (UTM ZONE 17 METERS)

CENTROID OF PAD

LATITUDE: 39.930716 LONGITUDE: -80.633622 (NAD 83)
LATITUDE: 39.930640 LONGITUDE: -80.633621 (NAD 27)
N 4420131.68 E 531305.27 (UTM ZONE 17 METERS)

GENERAL DESCRIPTION:

THE ACCESS ROAD(S) AND WELL PAD ARE BEING CONSTRUCTED TO AID IN THE DEVELOPMENT OF INDIVIDUAL MARCELLUS SHALE GAS WELLS.

FLOODPLAIN NOTES:

THE PROPOSED SITE IS LOCATED WITHIN FEMA FLOOD ZONE "X" PER FEMA FLOOD MAP #54051C0095E.

MISS UTILITY STATEMENT:

EXPAND ENERGY CORPORATION WILL NOTIFY MISS UTILITY OF WEST VIRGINIA FOR THE LOCATING OF UTILITIES PRIOR TO THIS PROJECT DESIGN. IN ADDITION, MISS UTILITY WILL BE CONTACTED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION FOR THIS PROJECT.

ENTRANCE PERMIT:

EXPAND ENERGY CORPORATION WILL OBTAIN AN ENCROACHMENT PERMIT (FORM MM-109) FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

ENVIRONMENTAL NOTES:

STREAM AND WETLAND DELINEATIONS WERE PERFORMED IN AUGUST & SEPTEMBER, 2025 BY ALLSTAR ECOLOGY TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE REGULATORY PURVIEW OF THE U.S. ARMY CORPS OF ENGINEERS (USACE) AND/OR THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP). THE SEPTEMBER 4, 2025 DELINEATION WATERS MAP WAS PREPARED BY ALLSTAR ECOLOGY AND SUMMARIZES THE RESULTS OF THE FIELD DELINEATION. THE MAP DOES NOT, IN ANY WAY, REPRESENT A JURISDICTIONAL DETERMINATION OF THE LANDWARD LIMITS OF WATERS AND WETLANDS WHICH MAY BE REGULATED BY THE USACE OR THE WVDEP. IT IS STRONGLY RECOMMENDED THAT THE AFOREMENTIONED AGENCIES BE CONSULTED IN AN EFFORT TO GAIN WRITTEN CONFIRMATION OF THE DELINEATION SHOWN ON THIS EXHIBIT PRIOR TO ENGAGING CONSTRUCTION ON THE PROPERTY DESCRIBED HEREIN. THE DEVELOPER SHALL OBTAIN THE APPROPRIATE PERMITS FROM THE FEDERAL AND/OR STATE REGULATORY AGENCIES PRIOR TO ANY PROPOSED IMPACTS TO WATERS OF THE U.S., INCLUDING WETLAND FILLS AND STREAM CROSSINGS.

GEOTECHNICAL NOTES:

A SUBSURFACE INVESTIGATION OF THE PROPOSED SITE WAS PERFORMED BY PENNSYLVANIA SOIL & ROCK, INC. ON FEBRUARY 19-20, 2026. THE REPORT PREPARED BY PENNSYLVANIA SOIL & ROCK, INC. DATED MARCH 13, 2026, REFLECTS THE RESULTS OF THE SUBSURFACE INVESTIGATION. THE INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS REPORT WERE USED IN THE PREPARATION OF THESE PLANS. PLEASE REFER TO THE SUBSURFACE INVESTIGATION REPORT BY PENNSYLVANIA SOIL & ROCK, INC. FOR ADDITIONAL INFORMATION, AS NEEDED.

PROJECT CONTACTS:

OPERATOR:

EXPAND ENERGY CORPORATION
1300 FORT PIERCE DRIVE
STE 201 MORGANTOWN, WV 26508
PHONE: (304) 209-5800

SAM TALBOTT - PLANNING ENGINEER
OFFICE: 304-209-5828

JOHN DUBOWSKI - CONSTRUCTION
SUPERINTENDENT
OFFICE: 304-209-5741

JARED SHOCKEY - ENVIRONMENTAL SPECIALIST
CELL: 740-403-0652

ENGINEER/SURVEYOR:

NAVITUS ENGINEERING, INC.
CYRUS S. KUMP, PE - PROJECT
MANAGER/ENGINEER
OFFICE: (888) 662-4185 CELL: (540) 686-6747

ENVIRONMENTAL:

ALLSTAR ECOLOGY, LLC
RYAN L. WARD - ENVIRONMENTAL SCIENTIST
(866) 213-2686 CELL: (304) 692-7477

GEOTECHNICAL:

PENNSYLVANIA SOIL & ROCK, INC.
CHRISTOPHER W. SAMIOS - PROJECT ENGINEER
OFFICE: (412) 372-4000 CELL: (412) 589-0662

RESTRICTIONS NOTES:

- THERE ARE NO PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE WELL PAD AND LOD.
- THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEET OF THE WELL PAD AND LOD.
- THERE ARE NO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1000 FEET OF THE WELL PAD AND LOD.
- THERE ARE NO APPARENT EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF THE WELL(S) BEING DRILLED.
- THERE ARE NO OCCUPIED DWELLING STRUCTURES WITHIN 625 FEET OF THE CENTER OF THE WELL PAD.
- THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2,500 SQUARE FEET WITHIN 625 FEET OF THE CENTER OF THE WELL PAD.

REPRODUCTION NOTE

THESE PLANS WERE CREATED TO BE PLOTTED ON 22"x34" (ANSI D) PAPER. HALF SCALE DRAWINGS ARE ON 11"x17" (ANSI B) PAPER.

THESE PLANS WERE CREATED FOR COLOR PLOTTING AND ANY REPRODUCTIONS IN GRAY SCALE OR COLOR MAY RESULT IN A LOSS OF INFORMATION AND SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES.

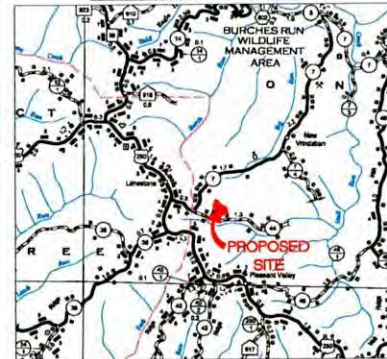


WEST VIRGINIA COUNTY MAP



(NOT TO SCALE)

WVDOH COUNTY ROAD MAP



SCALE: 1" = 5000'

DESIGN CERTIFICATION:

THE DRAWINGS, CONSTRUCTION NOTES, AND REFERENCE DIAGRAMS ATTACHED HERETO HAVE BEEN PREPARED IN ACCORDANCE WITH THE WEST VIRGINIA CODE OF STATE RULES, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS CRS 35-8.

MISS Utility of West Virginia
1-800-245-4848
West Virginia State Law
(Section XIV, Chapter 24-C)
Requires that you call two
business days before you dig in
the state of West Virginia.
IT'S THE LAW!!

SHEET INDEX:

- COVER SHEET
- CONSTRUCTION AND E&S CONTROLS NOTES
- LEGEND
- MATERIAL QUANTITIES
- STORM DRAINAGE & E&S COMPUTATIONS
- EXISTING CONDITIONS
- ACCESS ROAD & WELL PAD PLAN
- ACCESS ROAD PROFILE
- ACCESS ROAD SECTIONS
- WELL PAD SECTIONS
- WELL PAD & STOCKPILE SECTIONS
- CONSTRUCTION DETAILS
- ACCESS ROAD & WELL PAD RECLAMATION PLAN
- GE500 - GE504 - GEOTECHNICAL DETAILS

RECEIVED
Office of Oil and Gas
WV Department of
Environmental Protection
JUL 16 2026

ROBERT YOUNG LIMITS OF DISTURBANCE AREA (AC)			
Total Site	Permitted	Modification	Total
Total Affected Area	8.60	5.24	13.84
Total Wooded Acres Disturbed	0.00	0.28	0.28
Impacts to Robert L. & Kathy J. Young TM 15-7-8.5			
Total Affected Area	0.03	0.00	0.03
Total Wooded Acres Disturbed	0.00	0.00	0.00
Impacts to Brian K. & Stacey A. Norman TM 15-7-8.8			
Total Affected Area	0.02	0.00	0.02
Total Wooded Acres Disturbed	0.00	0.00	0.00
Impacts to Brian K. & Stacey A. Norman TM 15-7-8.8			
Total Affected Area	0.27	-0.26	0.01
Total Wooded Acres Disturbed	0.00	0.00	0.00
Impacts to Robert L. Young ET UX TM 15-7-8			
Total Affected Area	8.28	5.50	13.78
Total Wooded Acres Disturbed	0.00	0.28	0.28

UTILITIES						
Responses Due Date:	Survey Review Completed by:			Date:		
UTILITY/COMPANY	DATE	RESPONSE RCVD Clear/Conflict/No Response	TICKET #	ACTION Map/No Map	CONTACT NAME	CONTACT EMAIL
Electric						
American Electric Power Company		No Response	2602755710		none given	(866) 237-5028
Gas						
Williams Ohio Valley Midstream	01/29/26	Marked line/Needs relocated for expansion	2602755710	Map of Borings and Expansion Provided	Mark Wood	Mark.Wood@Williams.com (800) 945-5526 (304) 231-4271
Expand Energy (aka GWN)	01/28/26	Clear/Not Marked	2602755710	No Map	none given	(304) 209-5800
Telecommunications						
Frontier-A Citizens Communications Company	01/27/26	Clear/Not Marked	2602755710	No Map	none given	(304) 281-8157
Water/Sewer						
Marshall County Public Service District #3		No Response	2602755710		none given	(304) 845-1768
Other Townships						

NAVITUS
ENERGY ENGINEERING

Telephone: (888) 662-4185 | www.NavitusEng.com

DATE: _____

expand

THIS DOCUMENT
WAS PREPARED FOR:
EXPAND ENERGY
CORPORATION

COVER SHEET
ROBERT YOUNG
WELL PAD
WEBSTER DISTRICT
MARSHALL COUNTY, WV



DATE: 06/01/2026

SCALE: AS SHOWN

SHEET 1 OF 16



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
dep.wv.gov

Mr. Robert A. Storch
769 McCreary's Ridge Road
Moundsville, WV 26041

August 17, 2026

Re: Operators response to comments from Expand Operating, LLC regarding Robert Young MSH 1H
API# (47-051-02595)

Dear Mr. Storch,

The Office of Oil and Gas (OOG) has completed its review of the above-mentioned permit application submitted by Expand Operating, LLC. The Marshall County oil and gas inspector has examined the site to ensure compliance with all applicable requirements of Article 6A, Chapter 22 of the West Virginia Code and Legislative Rule Title 35, Series 8. Also, your comments were sent to the applicant to ensure it was aware of your concerns. The applicant's response is enclosed for your records.

After considering your comments and the applicant's response, the OOG has determined that the application meets the requirements set forth in the above statute and legislative rule. Consequently, the OOG is issuing the permit today. For your information and convenience, I am including with this letter a copy of the permit as issued.

Please contact Taylor Brewer at (304) 926-0499, extension 41108 if you have questions.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Taylor Brewer', is written over a light blue horizontal line.

Taylor Brewer
Assistant Chief - Permitting
WVDEP Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304
304-926-0499 ext. 41108

Storch, Robert A.
Parcel ID: 15-7-6.1 & 15-7-6.7
769 McCreary's Ridge Road
Moundsville, WV 26041
304-830-9678

July 17, 2026

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

RECEIVED
Office of Oil and Gas
AUG 10 2026
WV Department of
Environmental Protection

Comments regarding:

Expand Energy Corporation
1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
304-209-5688
Proposed New Well: Robert Young MSH 1H

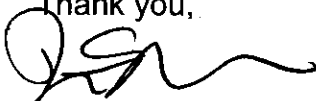
I received the required documentation for the proposed new well at the existing pad.

I am writing to comment on the noise pollution. The existing well can be heard all day and night. At times forcing me to close windows that I would like to remain open.

The existing noise pollution is already more than should be experienced in a quiet rural area such as McCreary's Ridge Road. An additional well at the pad can only increase the noise pollution.

I would like the permitting process to specify noise baffling to ensure a reduction of noise pollution and not an increase.

Thank you,



Robert Storch

08/21/2026



August 11, 2026

Taylor Brewer
Assistant Chief – Permitting
West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304

Re: Robert Young MSH 1H Public Comment

Dear Mr. Brewer:

Expand Operating LLC (Expand) received comments from Mr. Robert Storch concerning potential noise associated with oil and gas activities on the Robert Young MSH 1H well. Expand understands noise can be disruptive, and remains committed to environmental stewardship, regulatory compliance, and maintaining a cooperative working relationship with both the Department and communities.

Expand takes public comments very seriously and continues to ensure operating wells run as efficiently and environmentally responsible as possible. This includes conducting sound studies to discern if noise attenuating structures are necessary and it was determined sound mitigation was not needed at the Robert Young well pad.

Drilling and completion operations, although noisy at times, are temporary. Expand attempts to minimize heavy truck traffic and continues to improve operational excellence to decrease the time spent on location to conduct these operations.

Expand is committed to operating in a safe and responsible manner while minimizing impacts on neighboring residents and property owners. If concerns are raised during the upcoming operations, please contact an Expand representative.

If you have any questions or concerns, or require any additional information, feel free to contact me at (570) 290-8837 or eric.haskins@expandenergy.com

Sincerely,

Expand Operating, LLC

A handwritten signature in blue ink, consisting of a series of loops and strokes, enclosed within a blue oval.

Eric Haskins
Appalachia Regulatory Manager