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

Tuesday, July 28, 2026
WELL WORK PERMIT
Horizontal 6A / New Drill

EXPAND OPERATING LLC
6100 N WESTERN AVE.

OKLAHOMA CITY, OK 73118

Re: Permit approval for Constance Taylor WTZ 410H
47-103-03866-00-00

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

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

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

H. Jason Harmon
Chief

Operator's Well Number:	Constance Taylor WTZ 410H
Farm Name:	Constance A Taylor
U.S. WELL NUMBER:	47-103-03866-00-00
Horizontal 6A	New Drill
Date Issued:	7/28/2026

07/31/2026

PERMIT CONDITIONS

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

CONDITIONS

1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.

2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.

3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.

4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.

5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.

6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.

7. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Also, 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.

8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.

9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.

10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

07/31/2026

WW-6B
(04/15)

API NO. 47- 103 - _____
OPERATOR WELL NO. Constance Taylor WTZ 410H
Well Pad Name: Constance Taylor WTZ

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

1) Well Operator: Expand Operating LLC | 494533012 (Operator ID) | 103-Wetzel (County) | 07-Proct (District) | 681-Wileyville (Quadrangle)

2) Operator's Well Number: Constance Taylor WTZ 410H Well Pad Name: Constance Taylor WTZ

3) Farm Name/Surface Owner: Constance A. Taylor Public Road Access: Brock Ridge Road

4) Elevation, current ground: 1430' Elevation, proposed post-construction: 1430'

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

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Target Formation- Marcellus, Down-Dip well to the South, Target Top TVD- 7316', Target Base TVD- 7365', Anticipated Thickness- 49', Associated Pressure- 4776

8) Proposed Total Vertical Depth: 7535'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 27,470'

11) Proposed Horizontal Leg Length: 18,146.69'

12) Approximate Fresh Water Strata Depths: 365'

13) Method to Determine Fresh Water Depths: Salinity profile calculated from logs on pad.

14) Approximate Saltwater Depths: 1467' salinity profile

15) Approximate Coal Seam Depths: 1390'

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 x

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

07/31/2026

WW-6B
(04/15)

API NO. 47- 103 -
OPERATOR WELL NO. Constance Taylor WTZ 410H
Well Pad Name: Constance Taylor WTZ

18) **CASING AND TUBING PROGRAM**

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94#	136'	136'	CTS
Fresh Water	13 3/8"	New	J-55	54.4#	415'	415'	472 sx/CTS
Coal	See	Interm	Casing				
Intermediate	9 5/8"	New	J-55	36#	2890'	2890'	1184 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	27,470'	27,470'	Tail 4985sx/ 100' Inside Intermediate
Tubing							
Liners							

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

PACKERS

Kind:			
Sizes:			
Depths Set:			

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WW-6B
(10/14)

API NO. 47- 103 -
OPERATOR WELL NO. Constance Taylor WTZ 410H
Well Pad Name: Constance Taylor WTZ

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

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

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 18.72

22) Area to be disturbed for well pad only, less access road (acres): 8.99

23) Describe centralizer placement for each casing string:

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

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

See Attachment ***

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.

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*Note: Attach additional sheets as needed.

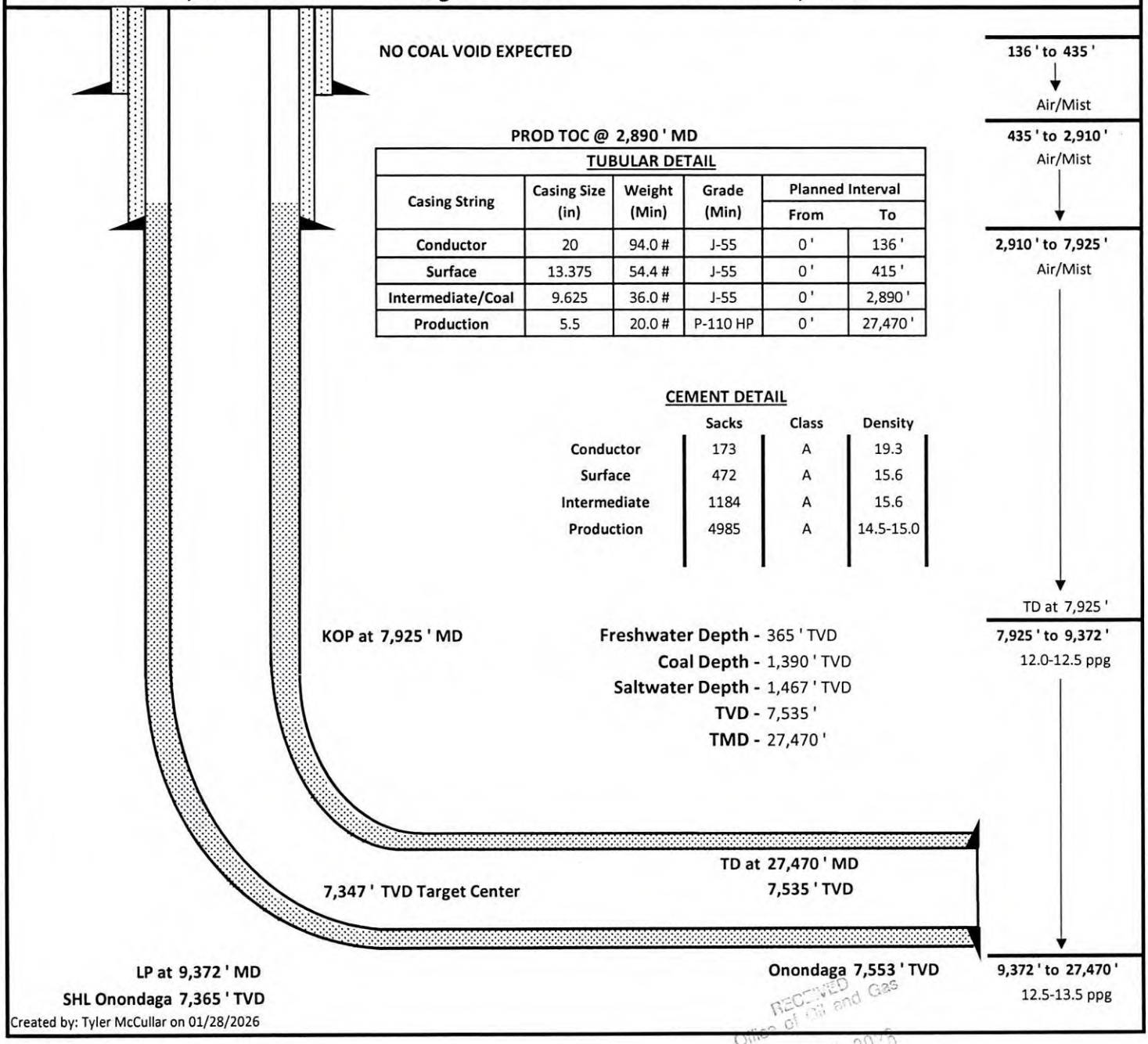
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CEMENT ADDITIVES						
INTERVAL	SCHLUMBERGER PRODUCT NAME	BJ PRODUCT NAME	NEXTIER PRODUCT NAME	PRODUCT USE	CHEMICAL NAME	CAS-Number
SURFACE (FRESHWATER)		INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
up to 3%	S001	A-7P	0110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
COAL PROTECTION		INTEGRA SEAL	0600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
up to 3%	S001	A-7P	CJIIO	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
INTERMEDIATE	D020	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	0047	FP 28L		LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
		INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	CemNet			LOST CIRC MATERIAL	COATED FIBERGLASS FIBERS	PROPRIETARY
	SUGAR	SUGAR	CJ795	CMT RETARDER	SUCROSE	57-50-1
	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
PRODUCTION			CJIII	ACCELERATOR	SODIUM CHLORIDE	7440-23-5
		55-IIW	0880	SURFACTANT	NONIONIC SURFACTANT	6540-99-4
	DO47	FP 28L		LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
			OX157011	SOLID ANTIFOAM AGENT	FULLERS EARTH(ATTAPULGITE)	8031-18-3
			CJ540	HP FLUID LOSS ADDITIVE	ALIPHATICAMIDE POLYMER	PROPRIETARY
	0255			MED TEMP FLUID LOSS ADDITIVE	POLYACRILIC POLYMER	PROPRIETARY
			CJ213	RETARDER	CHRYSTALLINE SILICA	14808-60-7
		FL-66	0501	LOW TEMP FLUID LOSS ADD	POWDERED POLYSACCHARIDE	PROPRIETARY
		BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D208	ASA-301		VISCOSI FIER/ANTI-SETTLING AGENT	REFINED POLYMER/ CHRYSTALLINE SILICA	PROPRIETARY
	D198	R-3		CEMENT RETARDER	LIGNIN	8068-51-6
	SUGAR	SUGAR	CJ795	CEMENT RETARDER	SUCROSE	57-50-1
	D065			DISPERSANT	SODIUM POLYNAPHTHALENE SULFONATE	8068-51-6
	D800			CEMENT RETARDER (Mid-Temperature)	SODIUM LIGNOSULFONATE	8061-51-6

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Expand Energy | Proposed Drilling Program

Well:	Constance Taylor WTZ 410H	**Drilling Rig:**	EDC 41
Field:	Panhandle	**Formation:**	Marcellus Shale
County:	Marshall	**State:**	WV
SHL (NAD83):	39.654619 Latitude	-80.679312 Longitude	
BHL (NAD83):	39.631279 Latitude	-80.638828 Longitude	
KB Elev:	1,456 ft MSL	KB Height: 26 ft AGL	**GL Elev:** 1,430 ft MSL



TUBULAR DETAIL

Casing String	Casing Size (in)	Weight (Min)	Grade (Min)	Planned Interval From	Planned Interval To
Conductor	20	94.0 #	J-55	0 '	136 '
Surface	13.375	54.4 #	J-55	0 '	415 '
Intermediate/Coal	9.625	36.0 #	J-55	0 '	2,890 '
Production	5.5	20.0 #	P-110 HP	0 '	27,470 '

CEMENT DETAIL

	Sacks	Class	Density
Conductor	173	A	19.3
Surface	472	A	15.6
Intermediate	1184	A	15.6
Production	4985	A	14.5-15.0

Created by: Tyler McCullar on 01/28/2026

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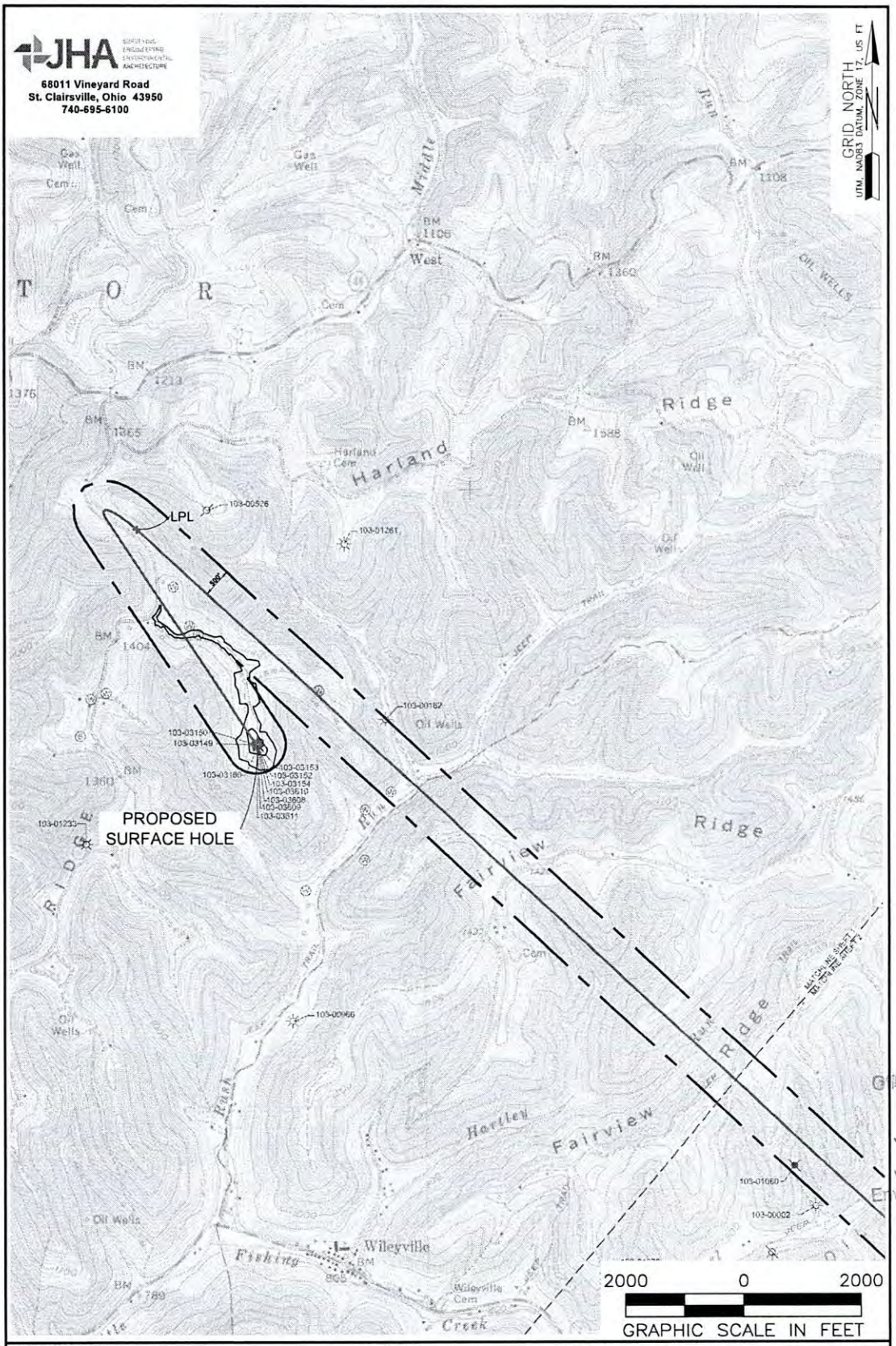
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Constance Taylor WTZ 410H AOR

API	Operator	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones Not Perforated
47-103-03149	EXPAND OPERATING LLC	ACTIVE	39.654652	-80.679254	7417'	MARCELLUS	
47-103-03150	EXPAND OPERATING LLC	ACTIVE	39.654526	-80.679223	7433'	MARCELLUS	
47-103-03352	EXPAND OPERATING LLC	ACTIVE	39.654590	-80.679195	7431'	MARCELLUS	
47-103-03353	EXPAND OPERATING LLC	ACTIVE	39.654621	-80.679225	7425'	MARCELLUS	
47-103-03354	EXPAND OPERATING LLC	ACTIVE	39.654558	-80.679166	7413'	MARCELLUS	
47-103-03360	EXPAND OPERATING LLC	ACTIVE	39.654536	-80.679145	7423'	MARCELLUS	
47-103-03608	EXPAND OPERATING LLC	ACTIVE	39.654490	-80.679185	7554'	MARCELLUS	
47-103-03609	EXPAND OPERATING LLC	ACTIVE	39.654467	-80.679164	7559'	MARCELLUS	
47-103-03610	EXPAND OPERATING LLC	ACTIVE	39.654512	-80.679206	7549'	MARCELLUS	
47-103-03611	EXPAND OPERATING LLC	ACTIVE	39.654445	-80.679143	7570'	MARCELLUS	
47-103-00155	SOUTH PENN OIL COMPANY	PLUGGED	39.632406	-80.639908	3242'	GORDON SAND	
47-103-00162	PERKINS OIL AND GAS, INC.	ACTIVE	39.655869	-80.671551	2915'	GORDON SAND	
47-103-00166	SOUTH PENN OIL COMPANY	PLUGGED	39.630728	-80.638824	3300'	GORDON SAND	
47-103-01080	PERKINS OIL AND GAS, INC.	PLUGGED	39.635260	-80.646586	3302'	GORDON SAND	

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JHA
68011 Vineyard Road
St. Clairsville, Ohio 43950
740-695-6100



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

LEGEND:
- PROPOSED SURFACE HOLE / BOTTOM HOLE
- EXISTING / PRODUCING WELLHEAD
- ABANDONED WELL
- PLUGGED & ABANDONED WELL
- LPL LANDING POINT LOCATION
- FLOOD PLAIN
- NATURAL WATERWAY
- ACCESS ROAD
- PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- LEASE BOUNDARY
- PROPOSED PATH

WELL OPERATOR: EXPAND OPERATING LLC	WELL (FARM) NAME: CONSTANCE TAYLOR WTZ		WELL # 410H	SERIAL # XXXX
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201, MORGANTOWN, WV 26508	COUNTY: WETZEL	CODE: 103	DISTRICT: PROCTOR	API # 47-103-XXXX
SURFACE OWNER: CONSTANCE A. TAYLOR	USGS 7 1/2 QUADRANGLE MAP NAME: WILEYVILLE, WV			

C:\USERS\PZINK\APPDATA\LOCAL\TEMP\ACPUBLISH_63484\CONSTANCE TAYLOR WTZ 410H.DWG
THURSDAY JANUARY 15 2026 05:37PM

SHEET 1 OF 2

PROPERTY NUMBER 675867
PAD ID 306161675

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WW-9
(4/16)

API Number 47 - 103 -

Operator's Well No. Constance Taylor WTZ 410H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Expand Operating LLC OP Code 494533012

Watershed (HUC 10) Upper Ohio South Quadrangle Wileyville

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

Will a pit be used? Yes ☐ No ☑

If so, please describe anticipated pit waste:

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

Proposed Disposal Method For Treated Pit Wastes:

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

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

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

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

Additives to be used in drilling medium? Attachment 3B

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

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

-Landfill or offsite name/permit number? Meadowfill SWF- 1032, Short Creek SWF-1034,Carbon Limestone MSWL018781, Wetzel County 1021 Apex Sanitary Landfill 06-08438, Brooke Co SWF-1013, PMS 353100

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

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

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

Company Official Signature Brittany Woody

Company Official (Typed Name) Brittany Woody

Company Official Title Senior Regulatory Analyst

Received
Office of Oil and Gas
JUN 26 2026
WV Department of Environmental Protection

Subscribed and sworn before me this 11 day of January, 20 26

Elizabeth Blankenship Notary Public

My commission expires 6/23/2029

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

07/31/2026

Form WW-9

Operator's Well No. Constance Taylor WTZ 410H

Expand Operating LLC

Proposed Revegetation Treatment: Acres Disturbed 18.72 Prevegetation pH _____

Lime as determined by pH test min.2 Tons/acre or to correct to pH 8.99

Fertilizer type 10-20-20

Fertilizer amount 600/500 lbs/acre

Mulch Hay/Straw Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Attachment 3C			

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [signature]

Comments: _____

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Title: Oil & Gas Inspector Date: 2/17/26

Field Reviewed? (_____) Yes (_____) No

Attachment 3A

CLOSED LOOP SYSTEM

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

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

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

AIR DRILLING INTERVALS

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

LIQUIDS DRILLING (FRESHWATER, BRINE, SOBM)

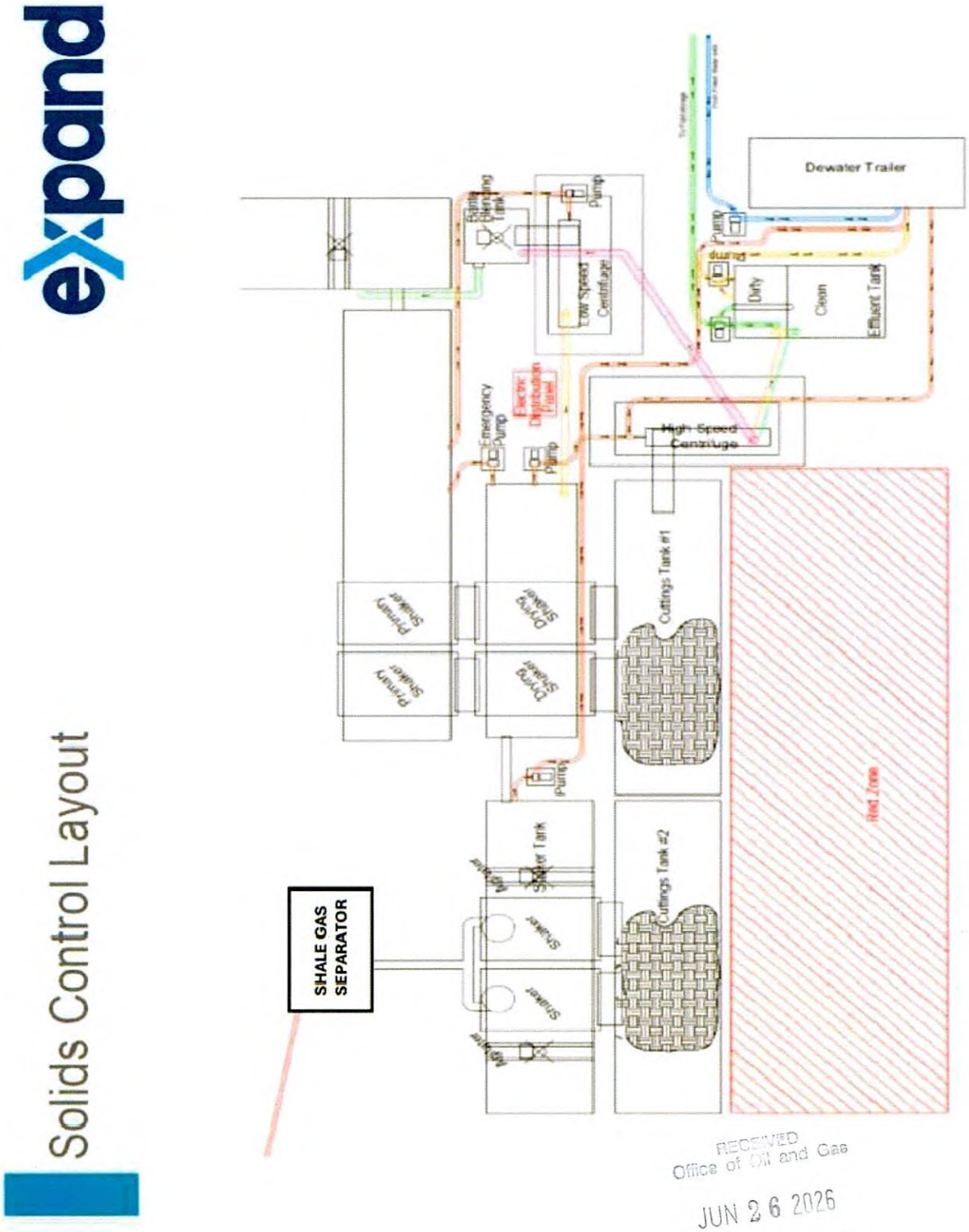
When drilling is converted to liquids drilling, the Shale Gas Separator and associated shaker tank are bypassed, and the liquids system is processed over the primary and drying shaker systems. Cuttings drop into the cuttings tank for additional processing. Any recoverable associated liquids attached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

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47-103-03866

EXAMPLE SCHEMATIC FOR CLOSED LOOP SOLIDS CONTROL SYSTEM



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3.10.2025

Drilling Mediums

Surface/Coal (if present)/Freshwater Intervals

Air

Freshwater (if needed based on conditions)

Intermediate/Coal (if present)

Air

Freshwater (if needed based on conditions)

Brine (if needed, base fluid for mud systems)

Production Hole:

Air

Synthetic Oil (Base Fluid for mud system)

Barite

Calcium Chloride

Lime

Organophilic Bentonite

Primary and Secondary Emulsfiers

Gilsonite

Calcium Carbonate

Friction Reducers

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Attachment 3C

WVD Seeding Specification

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

NON-ORGANIC PROPERTIES

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

All legumes are innoculated at 5x normal rate

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

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

SOIL AMENDMENTS

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

*unless otherwise dictated by soil test results

Seeding Calculation Information:

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

Synopsis:

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

Special Considerations:

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

ORGANIC PROPERTIES

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

RECEIVED
Office of Oil and Gas
JUN 26 2025
WV Department of
Environmental Protection

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

Rev.10/11/2024

MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN

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

API NO. 47-XXX-XXXXX
WELL NAME: Constance Taylor WTZ 410H
Wileyville QUAD
Proctor DISTRICT
WETZEL COUNTY, WEST VIRGINIA

Submitted by:

Name: Brittany Woody Date: 1/6/2026

Brittany Woody

Title: Senior Regulatory Analyst Expand Energy

Approved by:

Name:_____ Date: _____

Title: _____

Approved by:

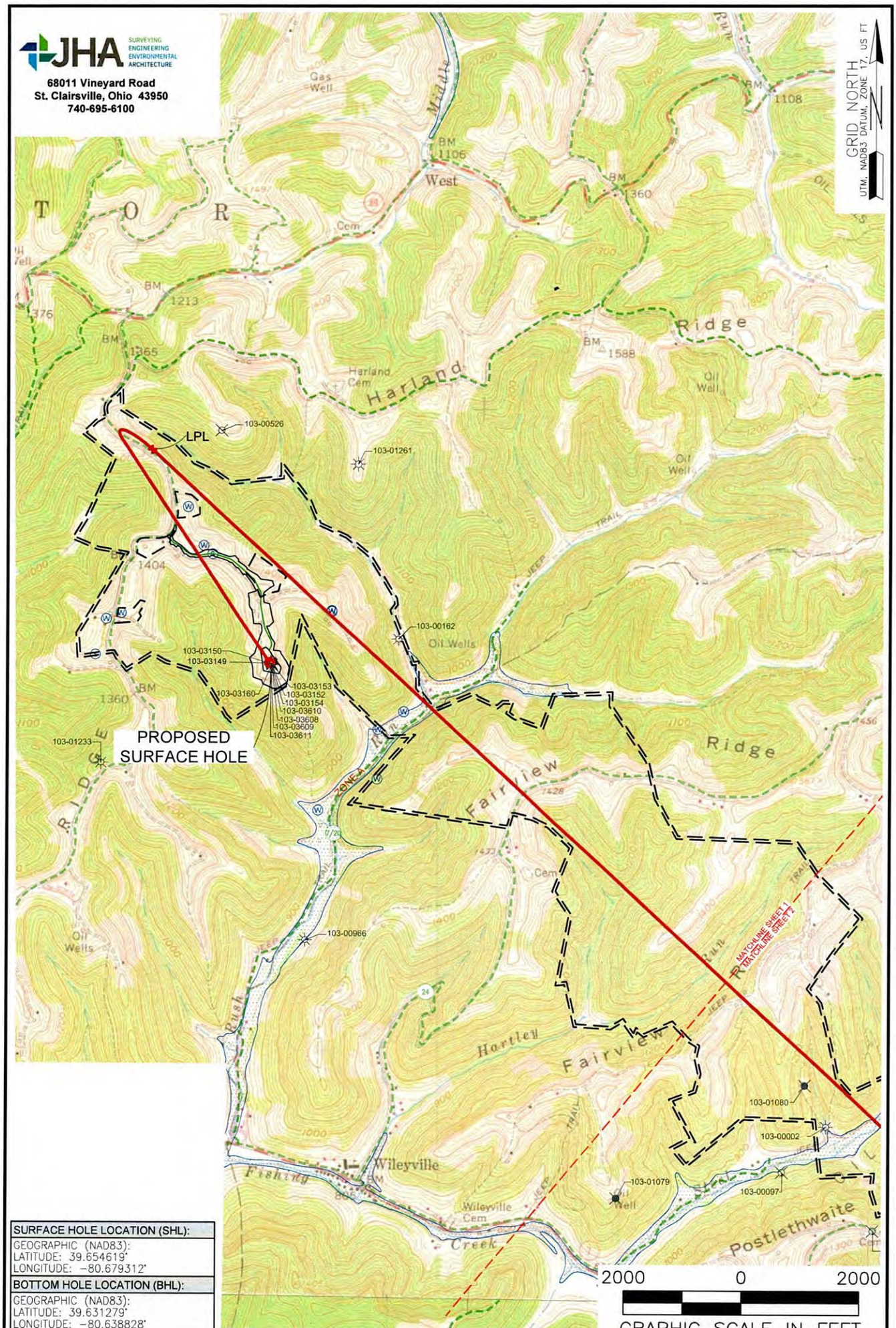
Name: _____ Date: 12/17/26

Title: WV Oil Inspector

RECEIVED
Office of Oil and Gas
JUN 26 2026
WV Department of
Environmental Protection

07/31/2026

JHA SURVEYING ENGINEERING ENVIRONMENTAL ARCHITECTURE
68011 Vineyard Road
St. Clairsville, Ohio 43950
740-695-6100



SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83): LATITUDE: 39.654619° LONGITUDE: -80.679312°
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83): LATITUDE: 39.631279° LONGITUDE: -80.638828°

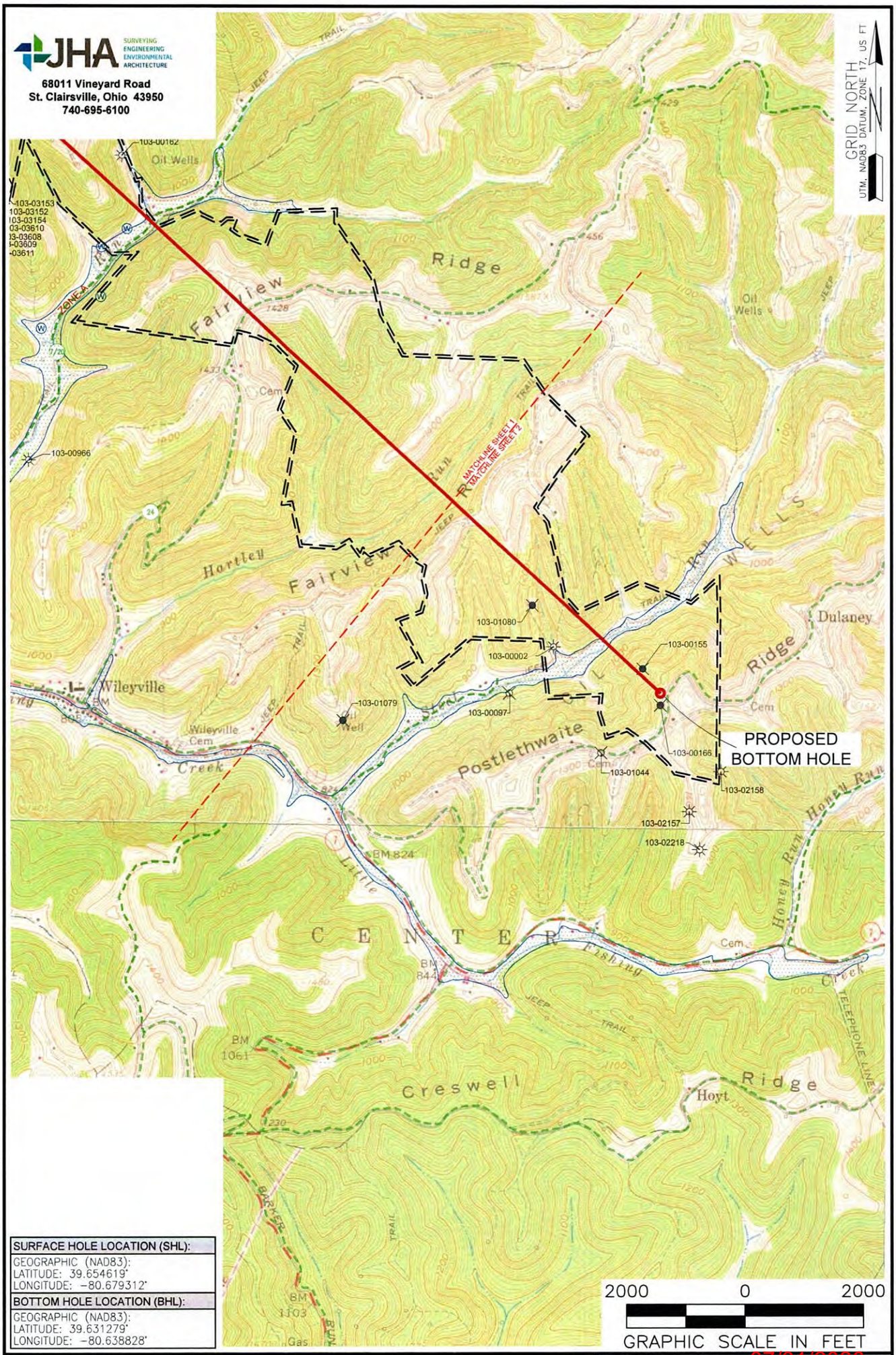
NOTES ON SURVEY
1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
3. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE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

LEGEND:
- PROPOSED SURFACE HOLE / BOTTOM HOLE
- EXISTING / PRODUCING WELLHEAD
- ABANDONED WELL
- PLUGGED & ABANDONED WELL
- LPL LANDING POINT LOCATION
- FLOOD PLAIN
- NATURAL WATERWAY
- ACCESS ROAD
- PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- LEASE BOUNDARY
- PROPOSED PATH

07/31/2026

WELL OPERATOR: EXPAND OPERATING LLC	WELL (FARM) NAME: CONSTANCE TAYLOR WTZ		WELL # 410H	SERIAL # XXXX
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201, MORGANTOWN, WV 26508	COUNTY: WETZEL	CODE: 103	DISTRICT: PROCTOR	API # 47-103-XXXX
SURFACE OWNER: CONSTANCE A. TAYLOR	USGS 7 1/2 QUADRANGLE MAP NAME: WILEYVILLE, WV			SHEET 1 OF 2

C:\USERS\PZINK\APPDATA\LOCAL\TEMP\ACPUBLISH_35320\CONSTANCE TAYLOR WTZ 410H FINAL 01-30-2026.DWG
THURSDAY JANUARY 29 2026 04:48PM



SURFACE HOLE LOCATION (SHL):
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C:\USERS\PZINK\APPDATA\LOCAL\TEMP\ACPUBLISH_35320\CONSTANCE TAYLOR WTZ 410H FINAL 01-30-2026.DWG
THURSDAY JANUARY 29 2026 04:48PM

LATITUDE: 39°40'00" SURFACE HOLE (2000' SCALE) 3570'

LATITUDE: 39°40'00" BOTTOM HOLE (2000' SCALE) 3894'

LONGITUDE: 80°37'30" BOTTOM HOLE (2000' SCALE) 12869'

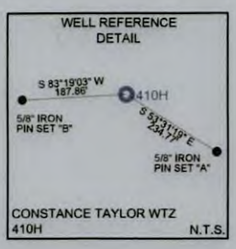
LONGITUDE: 80°40'00" SURFACE HOLE (2000' SCALE) 4376'

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

JHA SURVEYING ENGINEERING ENVIRONMENTAL ARCHITECTURE

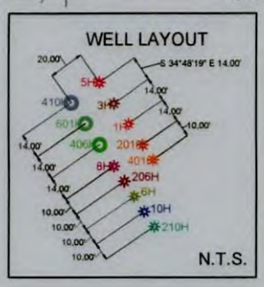
68011 Vineyard Road
St. Clairsville, Ohio 43950
740-695-6100

WELL REFERENCE DETAIL



CONSTANCE TAYLOR WTZ
410H N.T.S.

WELL LAYOUT



N.T.S.

SHL

BHL

LINE	BEARING	DISTANCE
L1	N34°25'26"E	957.59'
L2	N62°59'35"E	1391.92'

PROPOSED SURFACE HOLE

N 28°52'12" W 4145.24'

S 47°16'10" E 18094.07'

MATCHLINE SHEET 1
MATCHLINE SHEET 2

LPL

JOSEPH J. HUNT
REGISTERED
19809
STATE OF WEST VIRGINIA
PROFESSIONAL ENGINEER

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.E. 19809

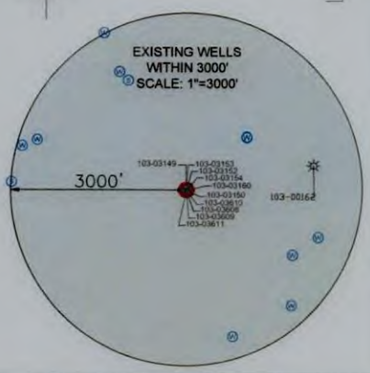
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6. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF THE LIMITS OF DISTURBANCE.
7. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.

2000 0 2000

GRAPHIC SCALE IN FEET

EXISTING WELLS WITHIN 3000'
SCALE: 1"=3000'



SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4389473.61 EASTING: 527511.32
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4390569.34 EASTING: 526883.10
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4386896.44 EASTING: 530994.78

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)

CONSTANCE TAYLOR WTZ

OPERATOR'S WELL #: 410H

API WELL #: 47 (STATE) 103 (COUNTY) D3866 (PERMIT)

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

WATERSHED: UPPER OHIO SOUTH

ELEVATION: 1430.1'

DISTRICT: PROCTOR COUNTY: WETZEL

QUADRANGLE: WILEYVILLE, WV

SURFACE OWNER: CONSTANCE A. TAYLOR

ACREAGE: ±43.5

OIL & GAS ROYALTY OWNER: CONSTANCE A. TAYLOR

ACREAGE: ±43.5

DRILL ☒ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☒ PLUG OFF OLD FORMATION ☐ PERFORATE NEW FORMATION ☐

CONVERT ☐ PLUG & ABANDON ☐ CLEAN OUT & REPLUG ☐ OTHER CHANGE ☐ (SPECIFY)

07/31/2026

TARGET FORMATION: MARCELLUS

ESTIMATED DEPTH: 7535' TVD 27470' TMD

WELL OPERATOR: EXPAND OPERATING LLC

DESIGNATED AGENT: BRITTANY WOODY

ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201

ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201

CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

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- PUBLIC ROAD

REVISIONS:	
	DATE: 01-30-2026
	API NO: 47-103-XXXXX
	DRAWN BY: PWZ
	SCALE: 1" = 2000'
	DRAWING NO: 2020-557
	WELL LOCATION PLAT

C:\USERS\PZINK\APPDATA\LOCAL\TEMP\ACPUBLISH_35320\CONSTANCE TAYLOR WTZ 410H FINAL 01-30-2026.DWG
THURSDAY JANUARY 29 2026 04:48PM

PROPERTY NUMBER 675887
PAD ID 3001161675

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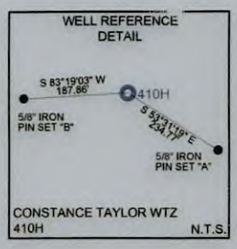
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JHA SURVEYING, ENGINEERING, ENVIRONMENTAL, ARCHITECTURE

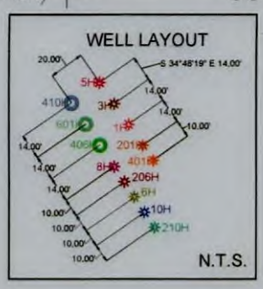
68011 Vineyard Road
St. Clairsville, Ohio 43950
740-695-6100

WELL REFERENCE DETAIL



CONSTANCE TAYLOR WTZ
410H N.T.S.

WELL LAYOUT



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

LINE	BEARING	DISTANCE
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JOSEPH J. HUNT
REGISTERED
19809
STATE OF
WEST VIRGINIA
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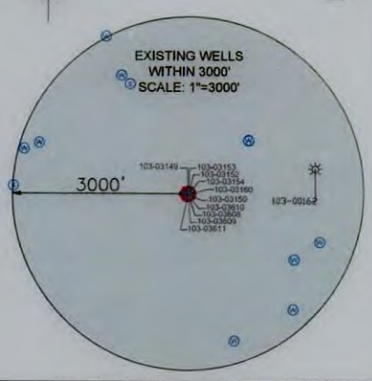
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WITHIN 3000'
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COMPANY: eXpand

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

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601 57TH STREET
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MINIMUM DEGREE OF ACCURACY: 1/200

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

CONSTANCE TAYLOR WTZ

OPERATOR'S WELL #: 410H

API WELL #: 47 (STATE) 103 (COUNTY) 03866 (PERMIT)

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

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1430.1'

DISTRICT: PROCTOR COUNTY: WETZEL QUADRANGLE: WILEYVILLE, WV

SURFACE OWNER: CONSTANCE A. TAYLOR ACREAGE: ±43.5

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CONVERT ☐ PLUG & ABANDON ☐ CLEAN OUT & REPLUG ☐ OTHER CHANGE ☐ (SPECIFY)

07/31/2026

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REVISIONS:	DATE: 01-30-2026
	API NO: 47-103-XXXXX
	DRAWN BY: PWZ
	SCALE: 1" = 2000'
	DRAWING NO: 2020-557
	WELL LOCATION PLAT

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THURSDAY JANUARY 29 2026 04:48PM

PROPERTY NUMBER 675887
PAD ID 3001161675

WELL BORE TABLE FOR SURFACE/ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	TAYLOR CONSTANCE A	12-18-05.0
TRACT	SURFACE OWNER	TAX PARCEL
2	BLAKE KIP MARTIN & SANDRA K	12-18-04.1
3	BLAKE RYAN ETAL	12-14-32.3
4	DICKIE WALTER R JR	12-14-32.1
5	WOOD DARLENE ELLEN	12-14-21.2
6	LONG DAVID L	12-14-21.3
7	SCHMUCKER OWEN E	12-14-21.4
8	BLAKE RYAN ETAL	12-14-34.0
9	BECKER ERICK D & PHYLLIS	12-18-07.0
10	BECKER ERICK D & PHYLLIS M	12-18-07.1
11	REED VICKY ANN	1-09-03.0
12	RIGGS MILLARD F SR	1-09-09.0
13	HUGGINS FAMILY IRREVOCABLE	1-09-10.0
14	MORRIS PATRICK L	1-13-04.0
15	WYKERT LEWIS EST & ALBERTA	1-13-05.0
16	BYLER GARRY L	1-13-09.0
17	RAY CHRISTOPHER & KAREN	1-13-17.0
18	CAIN SAMUEL HRS	1-13-10.0
19	WYKERT WAYNE E	1-13-18.0
20	CHANNELL RONALD F & VIVIAN J	1-13-26.0
21	CHANNELL RONALD F & VIVIAN J	1-14-34.0
22	MCELROY GEORGE F	1-14-35.0
23	THOMAS JACK W	1-14-36.0

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	SCHMUCKER OWEN E	12-14-22.0
B	GODDARD CATHERINE L & LEDERGERBER JAMES M	12-14-23.0
C	GODDARD CATHERINE L & LEDERGERBER JAMES M	12-14-24.0
D	RIDGETOP CAPITAL VI LP	12-14-25.0
E	BALLOUZ A C	12-14-35.0
F	CECIL AARON C & TRINA LEA	12-15-33.0
G	RICHMAN TROY	1-09-03.1
H	RICHMAN TROY & GLENDA M	1-09-03.2
I	RIGGS MILLARD F SR	1-09-08.0
J	BEVER DARREN	1-09-01.0
K	THOMAS CALEB M & VICTORIA M	1-09-02.0
L	MELLOTT EDWARD NOEL HRS	1-09-06.0
M	WOOD RYAN A	1-09-11.1
N	WYKERT LEWIS N EST	1-09-11.0
O	CAIN SAMUEL EST & CAIN VALERIE	1-10-46.0
P	CAIN SAMUEL EST & CAIN VALERIE	1-14-01.0
Q	CAIN FLOYD D	1-14-11.0
R	WYKERT WAYNE E	1-14-20.0
S	WYKERT WAYNE E	1-13-19.0
T	CADLE EARNEST HOWARD	1-14-57.0
U	CADLE EARNEST HOWARD	1-14-16.0
V	ELTON CLARICE B ET AL	1-14-54.0
W	MCELROY GEORGE F & BARTH GOLDIE	1-14-22.0
X	STACKPOLE LORETTA	1-14-37.0
Y	BAKER BOBBY LEE	1-14-46.0
Z	LEMASTERS RANDY W	1-14-45.0
AA	LEMASTERS RANDY W	1-14-45.1
AB	EVANS ELLEN K & ETAL	1-14-56.0
AC	GREATHOUSE ARLES	1-13-45.0
AD	CHANNELL RONALD F & VIVIAN J	1-13-34.0
AE	WEST BRUCE & MARY	1-13-46.0
AF	BRUNER LAND COMPANY INC	1-13-15.0
AG	RAY CHRISTOPHER O & KAREN	1-13-16.0
AH	HARTWIG A RAY EST	1-13-14.0
AI	PHILLIPS TERRY A & CATHLENE L	1-13-14.1
AJ	MORRIS PATRICK L	1-13-08.0
AK	DORTON BOBBY J & DEBORAH G	1-13-01.0
AL	DORTON BOBBY J & DEBORAH G	12-18-20.0
AM	REED VICKY A	12-18-19.0
AN	WELLS TIMOTHY N & STEPHANIE A	12-18-12.0
AO	DAY PENNY LYNN	12-18-12.2
AP	BECKER ERICK D & PHYLLIS M	12-18-06.0
AQ	BLAKE TYLER C	12-18-11.0
AR	BLAKE TYLER C	12-18-10.0
AS	NORRIS PATRICK	12-18-02.0
AT	POSTLETHWAIT DAVID F & ROSANNE	12-18-03.0
AU	JARRELL JEFFREY	12-18-01.0
AV	BLAKE KIP MARTIN & SANDRA K	12-14-31.0
AW	HARTMAN JOHN	12-14-21.1
AX	RICHMOND BURL E & SHIRLEY A	12-14-21.0
AY	T & C TRUST	12-14-22.1
AZ	BLAKE RYAN	12-14-32.2
BA	BLAKE PAUL J	12-14-32.0
BB	BLAKE KIP MARTIN & SANDRA K	12-18-04.0
BC	TAYLOR CONSTANCE A	12-14-33.0

07/31/2026

REVISIONS:

COMPANY: expand

OPERATOR'S CONSTANCE TAYLOR WTZ

WELL #: 47-103-03866 410H

DISTRICT: PROCTOR

COUNTY: WETZEL

STATE: WV

DATE: 01-30-2026

API NO: 47-103-XXXXX

DRAWN BY:PWZ

SCALE: N/A

DRAWING NO:2020-557

WELL LOCATION PLAT

PROPERTY NUMBER 675887

WW-6A1
(5/13)

Operator's Well No. Constance Taylor WTZ 410H

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: Tim Ledet
Its: Sr. Staff Landman

07/31/2026

EXHIBIT "A"
Constance Taylor WTZ 410H
Wetzel 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

Tract #	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased by Expand
1	12-18-5	Debra Keesee, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	132A/456	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Harold H. Blake and Donna M. Blake, H/W	Haddad And Brooks, Inc.	at least 1/8th per WV Code §22-6-8	79A/452	
		Haddad and Brooks, Inc.	Chesapeake Appalachia, L.L.C.		104A/230	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Joan Sauro, A/K/A Joany Sauro, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	153A/480	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Leonard Dunham, A/K/A Leonard Sidney Dunham, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	130A/951	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Tammy Kemnetz, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	130A/706	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
2	12-18-4.1	Donna M. Blake, A/K/A Donna Mae Blake, A Widow	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	128A/617	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Buster Terry Blake And Barbara A. Blake, his wife	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	131A/116	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Buster Terry Blake And Barbara A. Blake, his wife	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	139A/225	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
3	12-14-32.3	Buster Terry Blake and Barbara A. Blake, his wife	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	131A/144	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Paul J. Blake, a/k/a Paul Blake, a widower (Life Estate Interest), Brent Paul Blake, a/k/a Brent P. Blake, a single man, Bruce Scott Blake, a/k/a Bruce S. Blake, a married man dealing in his sole and separate property and Kip Martin Blake, a/k/a Kip M. Blake, a married man dealing in his sole and separate property (Remainder Interest)	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	139A/209	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Harold H. Blake and Donna M. Blake, H/W	Haddad and Brooks, Inc.	at least 1/8th per WV Code §22-6-8	79A/446	
		Haddad and Brooks, Inc.	Chesapeake Appalachia, L.L.C.		104A/230	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
4	12-14-32.1	Buster Terry Blake and Barbara A. Blake, his wife	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	131A/144	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Paul J. Blake, a/k/a Paul Blake, a widower (Life Estate Interest), Brent Paul Blake, a/k/a Brent P. Blake, a single man, Bruce Scott Blake, a/k/a Bruce S. Blake, a married man dealing in his sole and separate property and Kip Martin Blake, a/k/a Kip M. Blake, a married man dealing in his sole and separate property (Remainder Interest)	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	139A/209	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Harold H. Blake and Donna M. Blake, H/W	Haddad and Brooks, Inc.	at least 1/8th per WV Code §22-6-8	79A/446	
		Haddad and Brooks, Inc.	Chesapeake Appalachia, L.L.C.		104A/230	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
5	12-14-21.2	Darlene Ellen Wood, a married woman dealing in her sole and separate property and Walter R. Dickie Jr., a single man	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	100A/693	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		State Of West Virginia, By The State Road Commission Of West Virginia	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	144A/555	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
6	12-14-21.3	Harold S. Yost, Married	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	107A/643	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Jerry L. Yost, a/k/a Jerry Lee Yost Estate By Evelyn Christine Yost, Executrix	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	107A/594	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
7	12-14-21.4	Owen E. Schmucker, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	96A/329	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Timothy Yoder, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	96A/326	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	

07/31/2026

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		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
8	12-14-34	Harold H. Blake and Donna M. Blake, H/W	Haddad and Brooks, Inc.	at least 1/8th per WV Code §22-6-8	79A/452	0.00%
		Haddad and Brooks, Inc.	Chesapeake Appalachia, L.L.C.		104A/230	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		BRC Minerals LP and BRC Appalachian Minerals I LLC	BRC Working Interest Company LLC		103A/320	
		BRC Working Interest Company LLC	Chesapeake Appalachia, L.L.C.		103A/470	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
9	12-18-7	Joseph M. Wells, a widower	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	115A/569	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		SWN Production Company, LLC and Equinor USA Onshore Properties, Inc.	Antero Resources Corporation		272A/794	
		Antero Resources Corporation	SWN Production Company, LLC		400A/97	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Elizabeth P. Orner	Haddad and Brooks, Inc.	at least 1/8th per WV Code §22-6-8	79A/448	
		Haddad and Brooks, Inc.	Chesapeake Appalachia, L.L.C.		104A/230	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		SWN Production Company, LLC and Equinor USA Onshore Properties, Inc.	Antero Resources Corporation		272A/794	
		Antero Resources Corporation	SWN Production Company, LLC		400A/97	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Ridgetop Capital II, LP	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	140A/30	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		SWN Production Company, LLC and Equinor USA Onshore Properties, Inc.	Antero Resources Corporation		272A/794	
		Antero Resources Corporation	SWN Production Company, LLC		400A/97	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Ordie D. Carney and Maudine M. Carney, H/W	Haddad and Brooks, Inc.	at least 1/8th per WV Code §22-6-8	79A/450	
		Haddad and Brooks, Inc.	Chesapeake Appalachia, L.L.C.		104A/230	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		SWN Production Company, LLC and Equinor USA Onshore Properties, Inc.	Antero Resources Corporation		272A/794	
		Antero Resources Corporation	SWN Production Company, LLC		400A/97	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
10	12-18-7.1	Joseph M. Wells, a widower	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	115A/569	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		SWN Production Company, LLC and Equinor USA Onshore Properties, Inc.	Antero Resources Corporation		272A/794	
		Antero Resources Corporation	SWN Production Company, LLC		400A/97	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Elizabeth P. Orner	Haddad and Brooks, Inc.	at least 1/8th per WV Code §22-6-8	79A/448	
		Haddad and Brooks, Inc.	Chesapeake Appalachia, L.L.C.		104A/230	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		SWN Production Company, LLC and Equinor USA Onshore Properties, Inc.	Antero Resources Corporation		272A/794	
		Antero Resources Corporation	SWN Production Company, LLC		400A/97	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Ridgetop Capital II, LP	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	140A/30	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		SWN Production Company, LLC and Equinor USA Onshore Properties, Inc.	Antero Resources Corporation		272A/794	
		Antero Resources Corporation	SWN Production Company, LLC		400A/97	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Ordie D. Carney and Maudine M. Carney, H/W	Haddad and Brooks, Inc.	at least 1/8th per WV Code §22-6-8	79A/450	
		Haddad and Brooks, Inc.	Chesapeake Appalachia, L.L.C.		104A/230	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		SWN Production Company, LLC and Equinor USA Onshore Properties, Inc.	Antero Resources Corporation		272A/794	
		Antero Resources Corporation	SWN Production Company, LLC		400A/97	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
11	1-9-3	Royalty Owners	N/A	N/A	N/A	7.14%
		L.V. West; and F.T. West and Anna J. West, his wife	J.M.L. Smith	at least 1/8th per WV Code §22-6-8	31A/439	0.00%
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		SWN Production Company, LLC and Equinor USA Onshore Properties, Inc.	Antero Resources Corporation		272A/794	
		Antero Resources Corporation	SWN Production Company, LLC		400A/97	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Three Rivers Royalty II, LLC	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	375A/164	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Troy Richman, married dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	412A/127	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Rex West, a/k/a Warren Rex West, married dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	415A/22	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Carl B. West, married dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	415A/28	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
12	1-9-9	Cheryl Elizabeth Schubert	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	340A/27	0.00%
		Christopher Schubert	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	340A/27	
		Delbert R. Yoho	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	340A/27	
		Douglas R. Schubert	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	340A/27	
		Fayetta L. Willman	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	340A/27	
		James Ernest Weber	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	340A/27	
		James Harold Lasky	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	340A/27	
		James O'Dor	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	340A/27	
		James Ronald Smith, Jr	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	340A/27	

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Jason Schubert	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	340A/27	
Jennifer Isakson	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	340A/27	
John C. Stackpole	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	340A/27	
John Schrack	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	340A/27	
Jonathan Schubert	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	340A/27	
Karen Sue Stackpole Hunter Ives	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	340A/27	
Marilyn Lasky Garn	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	340A/27	
Matthew Schrack	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	340A/27	
Michael J. Laskey	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	340A/27	
Robert Ady	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	340A/27	
Ronald W. Knowlton, Jr.	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	340A/27	
Samuel O. O'Dor, III	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	340A/27	
Shane R. Richardson	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	340A/27	
Sherry J. Smith	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	340A/27	
Stacy J. Richardson	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	340A/27	
Stephanie Richardson	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	340A/27	
Steven Lee Lasky	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	340A/27	
Thomas C. Scyoc	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	340A/27	
Thomas E. Knowlton	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	340A/27	
Unknown heirs or assigns of James Stackpole	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	340A/27	
Unknown heirs or assigns of Paul Edward Weber	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	340A/27	
Walter S. Sackman	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	340A/27	
William H. Stackpole	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	340A/27	
Ann Stackpole Wren	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	340A/27	
SWN Production Company, LLC	Expand Appalachia LLC		162/659	
Deborah Lynn Bever, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	264A/179	0.00%
SWN Production Company, LLC	Expand Appalachia LLC		162/659	
Blackrock Enterprises, LLC	Antero Resources Corporation	at least 1/8th per WV Code §22-6-8	186A/593	
Antero Resources Corporation	SWN Production Company, LLC and Equinor USA Onshore Properties Inc.		248A/897	
SWN Production Company, LLC and Equinor USA Onshore Properties Inc.	Antero Resources Corporation		272A/794	
Antero Resources Corporation	SWN Production Company, LLC		400A/97	
SWN Production Company, LLC	Expand Appalachia LLC		162/659	
Ada L. Riggs, widow	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	264A/173	
SWN Production Company, LLC	Expand Appalachia LLC		162/659	
KKS Minerals, LLC	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	318A/200	
SWN Production Company, LLC	Expand Appalachia LLC		162/659	
David E. Bowyer, a single man	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	342A/602	
SWN Production Company, LLC	Expand Appalachia LLC		162/659	
Alice M. Knapp, widow	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	304A/321	
SWN Production Company, LLC	Expand Appalachia LLC		162/659	
Angela R. Reed, widow	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	303A/68	
SWN Production Company, LLC	Expand Appalachia LLC		162/659	
Barbara A. Bugh, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	303A/74	
SWN Production Company, LLC	Expand Appalachia LLC		162/659	
Betty E. Solomon, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	304A/578	
SWN Production Company, LLC	Expand Appalachia LLC		162/659	
Daniel B. Scyoc, divorced	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	302A/695	
SWN Production Company, LLC	Expand Appalachia LLC		162/659	
Eleanor V. Schubert, widow	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	303A/62	
SWN Production Company, LLC	Expand Appalachia LLC		162/659	
Elisa J. Nalley, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	305A/761	
SWN Production Company, LLC	Expand Appalachia LLC		162/659	
Francis L. Scyoc, single	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	308A/450	
SWN Production Company, LLC	Expand Appalachia LLC		162/659	
Freda A. Trumbo, widow	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	301A/22	
SWN Production Company, LLC	Expand Appalachia LLC		162/659	
Gary D. Knowlton, divorced	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	300A/744	
SWN Production Company, LLC	Expand Appalachia LLC		162/659	
Gary D. Yoho, married dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	304A/315	
SWN Production Company, LLC	Expand Appalachia LLC		162/659	
Gary E. Knaus, widower	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	307A/586	
SWN Production Company, LLC	Expand Appalachia LLC		162/659	
Harold J. Scyoc, Jr., single	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	301A/16	
SWN Production Company, LLC	Expand Appalachia LLC		162/659	
Helen M. Weber, single	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	306A/26	
SWN Production Company, LLC	Expand Appalachia LLC		162/659	
Jean L. Smith, single	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	307A/884	
SWN Production Company, LLC	Expand Appalachia LLC		15/61	
Julie L. Schwab, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	306A/20	
SWN Production Company, LLC	Expand Appalachia LLC		162/659	
Karen S. Forrester, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	305A/197	
SWN Production Company, LLC	Expand Appalachia LLC		162/659	
Lillian Priscilla Grimm, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	334A/882	
SWN Production Company, LLC	Expand Appalachia LLC		162/659	
Mary J. Knowlton Thomas, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	305A/203	
SWN Production Company, LLC	Expand Appalachia LLC		162/659	
Michael A. Ady, married dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	306A/38	

07/31/2026

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		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Nancy K. Benner, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	303A/80	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Patricia M. Haddix, divorced	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	334A/356	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Patricia S. West, single	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	302A/689	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Paul F. Ady, Jr., married dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	305A/191	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Rebecca J. King, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	305A/755	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Ronald L. Youngless, widower	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	305A/437	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Sandra F. Daugherty, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	306A/32	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Scott A. Scyoc, married dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	307A/878	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Sherry Lynn Knowlton Childs, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	301A/10	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Stephanie N. Baughman, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	308A/456	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Steven N. Weber, married dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	307A/872	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Suzanne M. Hill, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	333A/744	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		William L. Shockley, married dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	300A/685	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		SWN Production Company, LLC	SWN Owned	at least 1/8th per WV Code §22-6-8	N/A	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		William S. Scyoc, married dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	302A/140	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
13	1-9-10	Royalty Owners	N/A	N/A	N/A	3.23%
		Brenda Joyce Ashley	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	9.65%
		Emily L. Bassell	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		Andrew Bruce Gomley, a/k/a Drew Matthew Gomley	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		Debra S. Boswell	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		Ora Kathryn Bugbee, a/k/a Ora Katherine Albright, a/k/a Ora Katherine Ireland, Unknown Heirs and/or Assigns	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		Greta Ann Butcher	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		Diane Elaine Cienawski, f/k/a Diane Elaine Fogg	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		Margaret Ann Corsa, Unknown Heirs and/or Assigns	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		Rebecca Llynn Smith	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		Paula Melinda Puckett	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		James William Daddysman	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		Joseph J. Klaus, Trustee of the Alice M. Davidson Revocable Trust	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		Vickie Lee Findley, f/k/a Vickie Lee Fogg	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		Mountain View Minerals, LLC	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		Nelson J. Fogg, unknown heirs and/or assigns	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		Vicki Hagler	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		Kelley E. Heal-Ortiz	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		David Lee Heck	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		Debra Jean Heck	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		Olen Raymond Heck	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		Cinda Hickman, aka Lucinda Hickman Hersey, aka Lucinda Hickman, Unknown Heirs and/or Assigns	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		Hester A. Hickman, Unknown Heirs and/or Assigns	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		Kay Herro, a/k/a Lola Kay Herro	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		Nancy Lea Ireland	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		Susan Jane Ireland	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		Beverly Jackson	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		Marcia Johnson	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		Marcia Kahn	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		Belva Keighron	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		Douglas Keighron	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		Hank Kincaid	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		Nancy Ann Kirkham	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		Debra Kay Kyle, a/k/a Debbie Kyle	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		Kenneth Kyle	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		Richard Kyle	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		Thomas Kyle	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		Joyce Lundy	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		Mark Lundy	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		Helen L. Mays	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		Janet McPherson	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	

07/31/2026

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	Glenda Marjorie Meads, Unknown Heirs and/or Assigns	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
	Robert J. Moody, Jr.	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
	Janice Kay Moore	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
	Jack Brady O'Leary, Unknown Heirs and/or Assigns	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
	John A. Parent, Uknown Heirs, Successors, and Assigns	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
	Judith Andrews	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
	Betsy Viola	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
	Elizabeth Cheyanne Post	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
	Henry Russell Post	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
	James A. Post	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
	Justin Morgan Post	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
	Nadine M. Dyer, a/k/a W. Maude Post	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
	James Jacob Robinson	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
	Calvin R. Rogers, married dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	406A/912	
	Charles R. Rogers	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
	Cindy Sue Heck Ronne	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
	Virginia Keighron Shaw	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
	Mildred Ruth Sattler	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
	Cathleen Danner	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
	Cynthia Cohen	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
	Constance McCall	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
	Terrance J. Debus	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
	Thomas A. Debus	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
	Ellen Menzel Debus	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
	Margaret Debus	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
	Timothy Leary	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
	Susan Redmill	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
	Steven M. Leary	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
	Christine L. Kraus	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
	Gale Taylor	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
	Janet Kyle Wagenfeld, a/k/a Janet Wagerfield	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
	Judy Wilkinson	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
	Linda Herod Wilson	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
	Patricia Margaret Larson	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
	SWN Production Company, LLC	Expand Appalachia LLC		162/659	
	Kathleen R. Huggins, Trustee of the Huggins Family Irrevocable Trust, dated April 5, 2010	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	383A/736	0.00%
	SWN Production Company, LLC	Expand Appalachia LLC		162/659	
	Sally A. Barba, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	258A/526	
	SWN Production Company, LLC	Expand Appalachia LLC		162/659	
	Dennis G. Daddysman, married dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	367A/222	
	SWN Production Company, LLC	Expand Appalachia LLC		162/659	
	Thomas F. Daddysman, married dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	360A/943	
	SWN Production Company, LLC	Expand Appalachia LLC		162/659	
	Theresa Ann Coiner, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	360A/937	
	SWN Production Company, LLC	Expand Appalachia LLC		162/659	
	Carolyn Sue Evans, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	359A/572	
	SWN Production Company, LLC	Expand Appalachia LLC		162/659	
	Amy Witschey, f/k/a Amy Jo Dawson, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	363A/274	
	SWN Production Company, LLC	Expand Appalachia LLC		162/659	
	Patricia O'Leary Duffy, a/k/a Patricia Gwynn O'Leary Duffy, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	386A/738	
	SWN Production Company, LLC	Expand Appalachia LLC		162/659	
	Janet Gwen Evans, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	387A/243	
	SWN Production Company, LLC	Expand Appalachia LLC		162/659	
	Carson Ray Fogg, married dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	383A/710	
	SWN Production Company, LLC	Expand Appalachia LLC		162/659	
	Haddad and Brooks, Inc.	Antero Resources Corporation	at least 1/8th per WV Code §22-6-8	294A/386	
	Antero Resources Corporation	SWN Production Company, LLC		400A/97	
	SWN Production Company, LLC	Expand Appalachia LLC		162/659	
	Pamela Maxine Harper, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	385A/391	
	SWN Production Company, LLC	Expand Appalachia LLC		162/659	
	Judy K. Herod, widow	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	259A/452	
	SWN Production Company, LLC	Expand Appalachia LLC		162/659	
	Jack Thomas Heyl, married dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	385A/439	
	SWN Production Company, LLC	Expand Appalachia LLC		162/659	
	Harry Kim Ireland, married dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	357A/819	
	SWN Production Company, LLC	Expand Appalachia LLC		162/659	
	Tiffany Ireland, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	291A/159	
	SWN Production Company, LLC	Expand Appalachia LLC		162/659	
	Denice M. Kyle, widow	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	302A/575	
	SWN Production Company, LLC	Expand Appalachia LLC		162/659	
	Rondal K. Lake, a widower	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	385A/459	

07/31/2026

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SWN Production Company, LLC	Expand Appalachia LLC		162/659
Tammy K. Lantz, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	386A/731
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Anna Sweeney	Four Leaf Land Company	at least 1/8th per WV Code §22-6-8	239A/806
Four Leaf Land Company	SWN Production Company, LLC		250A/660
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Karen K. Marple, widow	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	355A/595
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Keith W. Marple, widower	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	354A/10
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Clarence Raymond Mays, widower	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	385A/446
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Chrystal Lynn McCloy, f/k/a Chrystal Lynn Heck, a/k/a Cheryl Lynn Heck McCloy, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	386A/751
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Priscilla E. Miles, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	354A/927
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Gloria Morris	Four Leaf Land Company	at least 1/8th per WV Code §22-6-8	239A/764
Four Leaf Land Company	SWN Production Company, LLC		250A/660
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Rebecca Welty Brinkman, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	393A/421
SWN Production Company, LLC	Expand Appalachia LLC		162/659
E. Ann O'Dell, a/k/a E. Ann Post, a widow	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	399A/779
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Lisa K. Herod, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	302A/569
SWN Production Company, LLC	Expand Appalachia LLC		162/659
LaMoyne Sweeney	Four Leaf Land Company	at least 1/8th per WV Code §22-6-8	239A/800
Four Leaf Land Company	SWN Production Company, LLC		250A/660
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Donna Lee Post, single	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	361A/559
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Larry Wayne Post, married dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	361A/7
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Leman Walton Post, a married man dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	356A/820
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Linda Jean Post, single	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	399A/384
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Linda Alberta Post, a/k/a Linda Patrick Post, a/k/a Linda Post, widow	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	387A/250
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Linda Sue Post, widow	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	399A/811
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Craig Allen Post, a/k/a Graig A. Post, married dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	383A/703
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Walter E. Post, married dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	361A/577
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Karlene J. Powers, widow	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	392A/569
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Leslie K. Robins, single	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	400A/696
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Janet J. Shurtleff, a/k/a Janet Jo Ann Shurtleff, widow	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	383A/717
SWN Production Company, LLC	Expand Appalachia LLC		162/659
John A. Snider, married dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	371A/684
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Nancy D. Steffich, widow	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	399A/378
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Sally S. Summers, a/k/a Sally C. Summers, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	383A/696
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Howard C. Stewart, Jr., widower	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	399A/798
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Steve J. Skelton, Trustee of the TJESS Family Revocable Living Trust	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	399A/391
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Jeanette D. Chronoski, a/k/a Jeanette D. Post, a single woman	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	396A/746
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Linda Anne Larson, a/k/a Linda Ann Larson, a/k/a Linda A. Larson, single	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	396A/765
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Michael David Larson, a/k/a Michael D. Larson, single	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	396A/740
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Antoinette Lee Post, a/k/a Toni Post, widow	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	396A/772
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Steven Leroy Spitler, a/k/a Steven L. Spitler, married dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	395A/738
SWN Production Company, LLC	Expand Appalachia LLC		162/659

07/31/2026

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		Four Leaf Land Company	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	406A/906	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		David E. Haught, POA for Debra Kay Haught, f/k/a Debra Kay Hadley, a married woman dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	406A/900	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Sherri Lee Hubbard, a/k/a Sherry L. Hubbard, f/k/a Sherri Lee Hadley, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	402A/137	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Kay Herro, a/k/a Lola Kay Herro	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/415	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Ralph Sweeney	Four Leaf Land Company	at least 1/8th per WV Code §22-6-8	239A/770	
		Four Leaf Land Company	SWN Production Company, LLC		250A/660	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Rodger A. Sweeney	Four Leaf Land Company	at least 1/8th per WV Code §22-6-8	239A/776	
		Four Leaf Land Company	SWN Production Company, LLC		250A/660	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Ralph T. Sweeney and Shelley A. Sweeney	Four Leaf Land Company	at least 1/8th per WV Code §22-6-8	239A/758	
		Four Leaf Land Company	SWN Production Company, LLC		250A/660	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Mark Dale Sweeney	Four Leaf Land Company	at least 1/8th per WV Code §22-6-8	239A/788	
		Four Leaf Land Company	SWN Production Company, LLC		250A/660	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Devon Ruth Horsley	Four Leaf Land Company	at least 1/8th per WV Code §22-6-8	239A/782	
		Four Leaf Land Company	SWN Production Company, LLC		250A/660	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Donald Lee Sweeney	Four Leaf Land Company	at least 1/8th per WV Code §22-6-8	239A/794	
		Four Leaf Land Company	SWN Production Company, LLC		250A/660	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Donald E. Huffman, dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	403A/931	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Triple L Land and Minerals, LLC	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	406A/894	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		SWN Production Company, LLC	SWN Owned	at least 1/8th per WV Code §22-6-8	N/A	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Penny Rae Ramsey, f/k/a Penny Rae Heck, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	404A/14	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Robert Leon Wilson and Jason Lones as Co-Trustees of the Leon F. Wilson Testamentary Trust	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/402	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Douglas Furbee,	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	357A/825	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Nancy Jo Furbee	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	357A/825	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Talyana D. Vandyne a/k/a Talyana D. Post Vandyne, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	402A/112	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
14	1-13-4	Geneva Rawe, a widow; Eileen C. Smittles; Madelyn C. Harman, widow	Haddad and Brooks, Inc.	at least 1/8th per WV Code §22-6-8	80A/72	0.00%
		Haddad and Brooks, Inc.	Chesapeake Appalachia, LLC		104A/230	
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		157A/540	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	157A/616	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
15	1-13-5	Shiben Estates, Inc., a West Virginia Corporation	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	266A/255	0.00%
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		James E. Wykert, widower	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	422A/400	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Lewis N. Wykert, Jr. and Diann L. Wykert, husband and wife	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	422A/349	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		James E. Wykert, widower	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	400A/648	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Lewis N. Wykert, Jr. and Diann L. Wykert, husband and wife	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	400A/654	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
16	1-13-9	BRC Appalachian Minerals I LLC and BRC Minerals LP	BRC Working Interest Company LLC	at least 1/8th per WV Code §22-6-8	103A/320	0.00%
		BRC Working Interest Company LLC	Chesapeake Appalachia, L.L.C.		103A/470	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540	
		SWN Production Company, LLC and Statoil USA Onshore Properties Inc.	Drilling Appalachian Corporation		174A/480	
		Drilling Appalachian Corporation	Antero Resources Corporation		179A/300	
		Antero Resources Corporation	SWN Production Company, LLC and Equinor USA Onshore Properties, Inc.		272A/588	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
17	1-13-17	Christopher O. Ray and Karen Ray, husband and wife, as joint tenants with right of survivorship	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	263A/495	0.00%
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		L. Wayne Hay, II and Brenda Hay, husband and wife, as joint tenants with right of survivorship	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	264A/200	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		KKS Minerals, LLC	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	407A/725	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
18	1-13-10	Royalty Owners	N/A	N/A	N/A	38.94%
		Suzanne Cole	Antero Resources Corporation	at least 1/8th per WV Code §22-6-8	344A/758	

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Antero Resources Corporation	SWN Production Company, LLC		400A/97
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Susan Darlene Cole, single	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	400A/703
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Scott R. Cole, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	400A/690
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Marissa J. Folmar, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	363A/280
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Roxanne Cain	Antero Resources Corporation	at least 1/8th per WV Code §22-6-8	336A/828
Antero Resources Corporation	SWN Production Company, LLC		400A/97
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Jeff Dailey and Tracey Dailey, H&W	Antero Resources Corporation	at least 1/8th per WV Code §22-6-8	313A/548
Antero Resources Corporation	SWN Production Company, LLC		400A/97
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Marilyn Wade, Widow	Antero Resources Corporation	at least 1/8th per WV Code §22-6-8	313A/619
Antero Resources Corporation	SWN Production Company, LLC		400A/97
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Susan Miller, widow	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	399A/360
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Pansy Farmer, widow	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	399A/354
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Marvin N. Miller, married dealing with his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	399A/786
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Dean Wayne Miller, single	Antero Resources Corporation	at least 1/8th per WV Code §22-6-8	310A/370
Antero Resources Corporation	SWN Production Company, LLC		400A/97
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Connie White, Widow	Antero Resources Corporation	at least 1/8th per WV Code §22-6-8	310A/376
Antero Resources Corporation	SWN Production Company, LLC		400A/97
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Harold E. Lemasters and Betty L. Lemasters, H&W & The Lemasters Keystone Trust Agreement dated 4/5/12, by Harold E. Lemasters and Betty L. Lemasters, as Trustees	Antero Resources Corporation	at least 1/8th per WV Code §22-6-8	310A/379
Antero Resources Corporation	SWN Production Company, LLC		400A/97
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Floyd E. White, married dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	399A/792
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Sharon L. Dunning, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	371A/710
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Vera Lynn Westbrook, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	369A/590
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Linda P. Pytash, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	371A/716
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Duane C. White, married dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	373A/79
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Karen L. White, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	399A/818
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Debra D. McConnell, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	371A/704
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Michael S. White, single	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	395A/751
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Vicki L. Anderson, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	396A/785
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Jeremy White, single	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	399A/366
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Bonnie D. Todd, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	399A/348
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Country Roads Minerals, LLC	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	373A/66
SWN Production Company, LLC	Expand Appalachia LLC		162/659
LaCore Agriculture, LLC	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	373A/59
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Gary Delaney	Antero Resources Corporation	at least 1/8th per WV Code §22-6-8	303A/327
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Donnie Delaney	Antero Resources Corporation	at least 1/8th per WV Code §22-6-8	330A/474
Antero Resources Corporation	SWN Production Company, LLC		400A/97
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Jason A. Wharton, single	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	399A/372
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Mark E. Haines, married dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	371A/698
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Michelle Lee Lyons, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	364A/942
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Patricia Diane Elliott, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	363A/262
SWN Production Company, LLC	Expand Appalachia LLC		162/659

07/31/2026

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		Ted Pickens, single	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	368A/541	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Ronald J. Pickens, married dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	368A/553	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Mike Pickens, married dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	367A/216	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Three Rivers Royalty II, LLC	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	365A/313	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Denise Lynn Dressel, f/k/a Denise Lynn Pyles, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	403A/919	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		James D. Pyler, single	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	402A/82	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Kimberly Cole Patchell, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	412A/118	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Nancy Cole Gobel, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	405A/475	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Christopher Alan Cole, married dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	405A/487	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Floyd "Jack" Duane Cain, a/k/a Jackie Dwain Cain, a/k/a Floyd Cain, widower	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/346	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Doris Masters, widow	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	402A/155	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Joseph W. Broadrick, single	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/384	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Patty J. White, a/k/a Patty J. Jones, single	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	401A/120	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		John R. Wharton, Jr	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	403A/925	
		SWN Production Company, LLC	Expand Operating, LLC		162/659	
		Barbara D. Jarrett	Antero Resources Corporation	at least 1/8th per WV Code §22-6-8	314A/788	
		Antero Resources Corporation	SWN Production Company, LLC		400A/97	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Christienne Lilley Moore, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	426A/837	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Georgiana Lilley Weiss, a/k/a Georgiana Lilley Fetty, a/k/a Georgiana L. Conley, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	426A/831	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Tanya Lilley King, a/k/a Tanya King, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	426A/843	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Roberta Lilley Bias, a/k/a, Roberta Lilley Dixon, a/k/a Roberta Dixon, single	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	426A/849	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Stephen W. Harkins, Trustee of the Ruth E. Wisecarver Revocable Living Trust dated November 22, 1993	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	412A/147	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Deronda S. Bruich, single	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	424A/798	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Drilling Appalachian Corporation	Antero Resources Corporation	at least 1/8th per WV Code §22-6-8	289A/498	
		Antero Resources Corporation	SWN Production Company, LLC		400A/97	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Michael Jay Clark, Sr.	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	416A/762	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Mark James Clark	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	418A/548	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Beverly J. Shultz	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	430A/440	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Patricia Biondillo	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	430A/428	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Rick Allan Hudson	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	422A/292	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Denise S. Barrett	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	418A/503	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Thomas Haines	Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	436A/111	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Carol Jean Whaley Williams	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	430A/494	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Dale A. Forester	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	427A/788	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
19	1-13-18	Rick Allen Hudson, married dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	399A/397	0.00%
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Wilbur Wade and Marilyn Wade	Drilling Appalachian Corporation	at least 1/8th per WV Code §22-6-8	130A/956	
		Drilling Appalachian Corporation	Antero Resources Corporation		179A/300	
		Antero Resources Corporation	SWN Production Company, LLC		272A/588	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Patricia Faye Christy	Antero Resources Corporation	at least 1/8th per WV Code §22-6-8	267A/184	
		Antero Resources Corporation	SWN Production Company, LLC		272A/588	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		KKS Minerals, LLC	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	385A/387	

07/31/2026

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		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
20	1-13-26	Craig Walker	Antero Resources Corporation	at least 1/8th per WV Code §22-6-8	288A/286	0.00%
		Antero Resources Corporation	SWN Production Company, LLC		272A/588	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		William J. Walker and Mary E. Walker, husband and wife	Drilling Appalachian Corporation	at least 1/8th per WV Code §22-6-8	152A/347 196A/941	
		Drilling Appalachian Corporation	Antero Resources Corporation		179A/300	
		Antero Resources Corporation	SWN Production Company, LLC		272A/588	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
21	1-14-34	Earnest H. and Clarice C. Cadle	Antero Resources Corporation	at least 1/8th per WV Code §22-6-8	259A/542	0.00%
		Antero Resources Corporation	SWN Production Company, LLC		272A/588	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
22	1-14-35	George F. McElroy, a married man dealing in his sole and separate property	Antero Resources Corporation	at least 1/8th per WV Code §22-6-8	323A/9	0.00%
		Antero Resources Corporation	SWN Production Company, LLC		400A/97	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Charles Fenton Rice, III and Sandra J. Rice, H&W	Antero Resources Corporation	at least 1/8th per WV Code §22-6-8	307A/500	
		Antero Resources Corporation	SWN Production Company, LLC		400A/97	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Kenneth Eric Rice, single	Antero Resources Corporation	at least 1/8th per WV Code §22-6-8	309A/898	
		Antero Resources Corporation	SWN Production Company, LLC		400A/97	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Cynthia Rice Elliott and Doug Elliott, H&W	Antero Resources Corporation	at least 1/8th per WV Code §22-6-8	309A/889	
		Antero Resources Corporation	SWN Production Company, LLC		400A/97	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Ethel Anna Hillman, a single woman	Antero Resources Corporation	at least 1/8th per WV Code §22-6-8	309A/895	
		Antero Resources Corporation	SWN Production Company, LLC		400A/97	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Edgar Hillman, III and Leslie E. Sladky-Hillman, H&W	Antero Resources Corporation	at least 1/8th per WV Code §22-6-8	310A/659	
		Antero Resources Corporation	SWN Production Company, LLC		400A/97	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		John Mark Hillman and Jill Hillman, H&W	Antero Resources Corporation	at least 1/8th per WV Code §22-6-8	309A/892	
		Antero Resources Corporation	SWN Production Company, LLC		400A/97	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Nancy Ingrid Sampson and John Jones, her husband	Antero Resources Corporation	at least 1/8th per WV Code §22-6-8	322A/589	
		Antero Resources Corporation	SWN Production Company, LLC		400A/97	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Dorothy Gray Hurd, AKA Dorothy G. Hurd, widow	Antero Resources Corporation	at least 1/8th per WV Code §22-6-8	323A/811	
		Antero Resources Corporation	SWN Production Company, LLC		400A/97	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		William O. Workman, a/k/a William Workman, and Rosetta Workman, husband and wife	Antero Resources Corporation	at least 1/8th per WV Code §22-6-8	334A/308	
		Antero Resources Corporation	SWN Production Company, LLC		400A/97	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Jonathan Peter Hurd, a married man dealing in his sole and separate property	Antero Resources Corporation	at least 1/8th per WV Code §22-6-8	322A/892	
		Antero Resources Corporation	SWN Production Company, LLC		400A/97	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Greta Kristen Rush, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	350A/493	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Wendy Lee Ross, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	355A/633	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Dorothy Kathleen DeMary, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	349A/534	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Gregory C. Hurd, married dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	354A/513	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Billie G. Everly, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	359A/207	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Drilling Appalachian Coporation	Antero Resources Corporation	at least 1/8th per WV Code §22-6-8	292A/694	
		Antero Resources Corporation	SWN Production Company, LLC		400A/97	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Drilling Appalachian Coporation	Antero Resources Corporation	at least 1/8th per WV Code §22-6-8	305A/667	
		Antero Resources Corporation	SWN Production Company, LLC		400A/97	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Three Rivers Royalty II, LLC	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	355A/580	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Jane E. Kitson	Antero Resources Corporation	at least 1/8th per WV Code §22-6-8	323A/805	
		Antero Resources Corporation	SWN Production Company, LLC		400A/97	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Susan D. Wynne	Antero Resources Corporation	at least 1/8th per WV Code §22-6-8	325A/655	
		Antero Resources Corporation	SWN Production Company, LLC		400A/97	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Kyle R. Gorman	Antero Resources Corporation	at least 1/8th per WV Code §22-6-8	323A/817	
		Antero Resources Corporation	SWN Production Company, LLC		400A/97	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Edward Charles Wells Hurd, single	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	350A/487	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Robert Joseph Hurd, Jr.	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	413A/468	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
		Walter Roswell Hurd	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	404A/1	
		SWN Production Company, LLC	Expand Appalachia LLC		162/659	
23	1-14-36	Royalty Owners	N/A	N/A	N/A	59.87%
		Belva J. Morris, married dealing her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	340A/53	0.00%

07/31/2026

EXHIBIT "A"
Constance Taylor WTZ 410H
Wetzel 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

SWN Production Company, LLC	Expand Appalachia LLC		162/659
Catherine Fay Miller, divorced	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	305A/185
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Darla R. Merckle, single	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	305A/773
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Donald E. Moore, married dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	337A/195
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Donna J. Faith, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	302A/563
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Harley Moore, divorced	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	335A/754
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Deborah D. Moore, widow	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	337A/239
SWN Production Company, LLC	Expand Appalachia LLC		162/659
John W. Moore, married dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	392A/582
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Margaret E. Derby, widow	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	335A/748
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Mark L. Preston, widower	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	305A/767
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Rachel A. Rickman	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	430A/524
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Pamela J. Riggenbach, married dealing in her sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	305A/425
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Ralph G. Preston, divorced	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	305A/431
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Chesapeake Appalachia, LLC	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	166A/931
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Teresa L. Utt, widow	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	337A/245
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Terry A. Moore, married dealing in his sole and separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	335A/760
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Webster Myers, III, a/k/a Webster I. Myers, III, a/k/a Webster Myers, single	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	412A/160
SWN Production Company, LLC	Expand Appalachia LLC		162/659
Paula Burns	Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	450A/702

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

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"

07/31/2026

expand

Click here to enter text.

June 18, 2026

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

RE: Expand's proposed New Well: Constance Taylor WTZ 410H in Wetzel County, West Virginia, Drilling under Brock Ridge Road, Rush Run Road, and Fairview Ridge Road.

Dear Mr. Brewer:

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

Thank you.

Sincerely,

Tim Ledet
Sr. Staff Landman
Expand Operating LLC

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

07/31/2026



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

ted By: Scott Dean
e Exported: 1/7/2026

expand

1500 ft. Buffer
WATER WELL
SPRING
POND

WELL PAD:
CONSTANCE TAYLOR WTZ PAD

COUNTY:
WETZEL

0 150 300 600 900 1,200

Scale: 1:5,000

07/31/2026

WW-6AC
(1/12)

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

Date of Notice Certification: 6/25

API No. 47- 103 -
Operator's Well No. Constance Taylor WTZ 410H
Well Pad Name: Constance Taylor WTZ

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

State:	West Virginia	UTM NAD 83 Easting:	527,511.32
County:	103-Wetzel	Northing:	4,389,473.61
District:	Proctor	Public Road Access:	Brock Ridge Road
Quadrangle:	Wileyville	Generally used farm name:	Constance Taylor WTZ
Watershed:	Upper Ohio South		

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

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY	OOG OFFICE USE ONLY
☐ 1. NOTICE OF SEISMIC ACTIVITY or ☒ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	☐ RECEIVED/ NOT REQUIRED
☒ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ☐ NO PLAT SURVEY WAS CONDUCTED	☑ RECEIVED
☒ 3. NOTICE OF INTENT TO DRILL or ☐ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or ☐ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	☑ RECEIVED/ NOT REQUIRED
☒ 4. NOTICE OF PLANNED OPERATION	☑ RECEIVED
☒ 5. PUBLIC NOTICE	☑ RECEIVED
☒ 6. NOTICE OF APPLICATION	☑ RECEIVED

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.

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

Brittany Woody

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

Subscribed and sworn before me this 11 day of January 2024

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.

WW-6A
(9-13)

API NO. 47- 103 -
OPERATOR WELL NO. Constance Taylor WTZ 410H
Well Pad Name: Constance Taylor WTZ

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

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

Date of Notice: 6/25 **Date Permit Application Filed:** 6/25

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: Constance Taylor
Address: 807 Johnson Road
New Martinsville WV 26155
Name:
Address:

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

☐ SURFACE OWNER(s) (Impoundments or Pits)
Name:
Address:

☑ COAL OWNER OR LESSEE
Name: Core Natural Resources Attn: Casey Saunders
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

☐ COAL OPERATOR
Name:
Address:

☑ SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: See Attachment 13A
Address:

☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name:
Address:

*Please attach additional forms if necessary

WW-6A
(8-13)

API NO. 47- 103 -
OPERATOR WELL NO. Constance Taylor WTZ 410H
Well Pad Name: Constance Taylor WTZ

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

WW-6A
(8-13)

API NO. 47- 103 -
OPERATOR WELL NO. Constance Taylor WTZ 410H
Well Pad Name: Constance Taylor WTZ

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

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.**

WW-6A
(8-13)

API NO. 47- 103 -
OPERATOR WELL NO. Constance Taylor WTZ 410H
Well Pad Name: Constance Taylor WTZ

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.

WW-6A
(8-13)

API NO. 47- 103 -
OPERATOR WELL NO. Constance Taylor WTZ 410H
Well Pad Name: Constance Taylor WTZ

Notice is hereby given by:

Well Operator: Expand Operating LLC
Telephone: 304-209-5688
Email: Brittany.Woody@expandenergy.com
Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
Facsimile: 304-884-1690

Oil and Gas Privacy Notice:

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

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

Subscribed and sworn before me this 11 day of January 2024

Notary Public

My Commission Expires 6/23/2029

SHORT_PARCEL_ID	OWNER	OWNER_ADDRESS	OWNER_CITY	OWNER_ZIP	OWNER_STATE
12-18-7.1	BECKER ERICK D. & PHYLLIS M	1615 CENTERTON ROAD	PITTSGROVE	8318	NJ

WW-6A3
(1/12)

Operator Well No. Constance Taylor WTZ

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

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than **FORTY-FIVE (45)** days prior to entry
Date of Notice: 1/5/2026 Date of Planned Entry: 1/12/2026

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

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

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

Notice is hereby provided to:

☒ SURFACE OWNER(s)
Name: Constance Taylor
Address: 807 Johnson Street
New Martinsville WV 26155
Name:
Address:
Name:
Address:

☒ COAL OWNER OR LESSEE
Name: Core Nat... Attn: Casey Saunders
Address: 1000 ... Drive
Canonsburg PA 15317

☒ MINERAL OWNER(s)
Name: Tammy R...
Address: 3909 ...
Wausau, WI 54401
*please attach additional forms if necessary

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

State: West Virginia
County: Wetzel
District: Proctor
Quadrangle: Wileyville
Approx. Latitude & Longitude: 39.65465, -80.679341
Public Road Access: Brock Ridge Road
Watershed: Little Fishing Creek
Generally used farm name: Constance Taylor

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

Notice is hereby given by:
Well Operator: Expand Operating LLC
Address: ... Dr., Suite 201
Telephone: 304-884-1610
Email: Brittany.Woody@expandenergy.com
Facsimile:

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

WW-6A3
(1/12)

Operator Well No. Constance Taylor WTZ

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

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry
Date of Notice: 1/5/2026 Date of Planned Entry: 1/12/2026

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

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

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

Notice is hereby provided to:

☒ SURFACE OWNER(s)
Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

☐ COAL OWNER OR LESSEE
Name: _____
Address: _____

☒ MINERAL OWNER(s)
Name: Debra [illegible]
Address: 4541 [illegible] Unit 61211
Virginia Beach VA [illegible]
*please attach additional forms if necessary

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

State: West Virginia
County: Wetzel
District: Proctor
Quadrangle: Wileyville
Approx. Latitude & Longitude: 39.65465, -80.679341
Public Road Access: Brock Ridge Road
Watershed: Little Fishing Creek
Generally used farm name: Constance Taylor

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

Notice is hereby given by:
Well Operator: Expand Operating LLC
Address: [illegible] Suite 201
Telephone: 304-884-1620
Facsimile: [illegible]
Email: Brittany.Woody@[illegible]

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 of your personal information, please contact DEP's Chief Privacy Officer at [illegible]

WW-6A3
(1/12)

Operator Well No. Constance Taylor WTZ

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

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry
Date of Notice: 1/5/2026 Date of Planned Entry: 1/12/2026

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

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

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

Notice is hereby provided to:

☒ SURFACE OWNER(s)
Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

☒ COAL OWNER OR LESSEE
Name: _____
Address: _____

☒ MINERAL OWNER(s)
Name: Jeanne _____
Address: [illegible]
Largo, SC 29581
*please attach additional forms if necessary

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

State: West Virginia
County: Wetzel
District: Proctor
Quadrangle: Wileyville

Approx. Latitude & Longitude: 39.65465, -80.679341
Public Road Access: Brock Ridge Road
Watershed: Little Fishing Creek
Generally used farm name: Constance Taylor

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 or calling [illegible] pages of [illegible].

Notice is hereby given by:
Well Operator: Expand Operating LLC
Address: 0 Foo[illegible] Suite 201
[illegible]
Telephone: 304-884-1610
Email: Brittany.Woods@[illegible]
Facsimile: 209[illegible]

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 of your personal information, please contact DEP's Chief Privacy Officer at [illegible]

07/31/2026

WW-6A3
(1/12)

Operator Well No. Constance Taylor WTZ

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

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

Date of Notice: 1/5/2026 Date of Planned Entry: 1/12/2026

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

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

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

Notice is hereby provided to:

☒ SURFACE OWNER(s)
Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

☒ COAL OWNER OR LESSEE
Name: _____
Address: _____

☒ MINERAL OWNER(s)
Name: None
Address: _____
Wellsburg WV
*please attach additional forms if necessary

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

State: West Virginia
County: Wetzel
District: Proctor
Quadrangle: Wileyville

Approx. Latitude & Longitude: 39.65465, -80.679341
Public Road Access: Brock Ridge Road
Watershed: Little Fishing Creek
Generally used farm name: Constance Taylor

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

Notice is hereby given by:
Well Operator: Expand Operating LLC
Address: 1775 J.D. Anderson Dr. Suite 201
Telephone: 304-884-1611
Email: Brittany.Vest@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 of your personal information, please contact DEP's Chief Privacy Officer at privacy@wv.gov.

WW-6A3
(1/12)

Operator Well No. Constance Taylor WTZ

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

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

Date of Notice: 1/5/2026 Date of Planned Entry: 1/12/2026

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

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

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

Notice is hereby provided to:

☑ SURFACE OWNER(s)
Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

☑ COAL OPERATOR/LESSEE
Name: _____
Address: _____

☑ MINERAL OWNER(s)
Name: MM-M
Address: PO
[illegible] 7970
Please attach additional forms if necessary

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

State:	West Virginia	Approx. Latitude & Longitude:	39.65465, -80.679341
County:	Wetzel	Public Road Access:	Brock Ridge Road
District:	Proctor	Watershed:	Little Fishing Creek
Quadrangle:	Wileyville	Generally used farm name:	Constance Taylor

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). Additional information and documents or additional forms related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas.

Notice is hereby given by:

Well Operator:	Expand Operating	Address:	Suite 201
Telephone:	304-884-1610		
Email:	Brittany.W[illegible]	Facsimile:	

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

07/31/2026

WW-6A4
(1/12)

Operator Well No. CONSTANCE TAYLOR WTZ410

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: 3/13/26 **Date Permit Application Filed:** 4/25

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: Constance Taylor
Address: 807 Johnson Street
New Martinsville, WV 26155

Name:
Address:

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

State: West Virginia
County: Wetzel
District: Proctor
Quadrangle: Wileyville, WV
Watershed: Upper Ohio South

UTM NAD 83 Easting: 527516.38
Northing: 4,89466.74
Public Road Access: U.N.T. Rush Run
Generally used farm name: Constance Taylor

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

Notice is hereby given by:

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

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

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

WW-6A5
(1/12)

Operator Well No. CONSTANCE TAYLOR WTZ

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: 3/13/24 **Date Permit Application Filed:** 4/25

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

☒ CERTIFIED MAIL
RETURN RECEIPT REQUESTED

☐ HAND
DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

Name: Constance Taylor
Address: 807 Johnson Street
New Martinsville, WV 26155

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: Wetzel
District: Proctor
Quadrangle: Wileyville, WV
Watershed: Upper Ohio South

UTM NAD 83 Easting: 527511.32
Northing: 4389473.61
Public Road Access: U.N.T. Rush Run
Generally used farm name: Constance Taylor

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.

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

June 18, 2025

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

Subject: DOH Permit for the Constance Taylor Well Pad, Wetzel County
Constance Taylor WTZ 406H Well Site
Constance Taylor WTZ 410H Well Site
Constance Taylor WTZ 601H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2016-0385 which has been transferred to Expand Operating, LLC for access to the State Road for a well site located off Wetzel County Route 1/15 SLS MP 3.29.

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

Lacy D. Pratt
Central Office O&G Coordinator

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

07/31/2026

Attachment VI Frac Additives

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

As of 7/5/2023

07/31/2026

WEST VIRGINIA 811

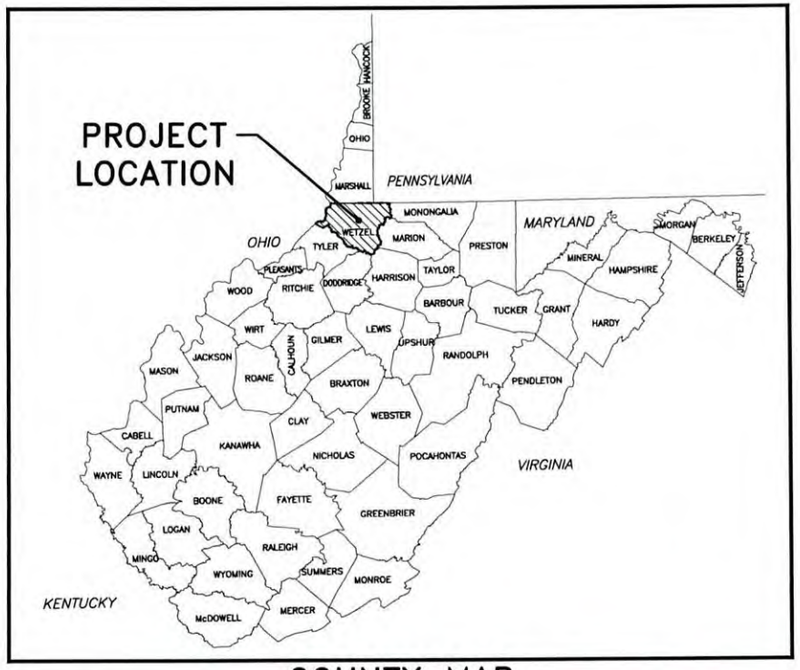
CALL BEFORE YOU DIG! Dial 811 or 800.245.4848 Miss Utility of West Virginia

AT LEAST 48 HOURS, BUT NOT MORE THAN 10 WORKING DAYS (EXCLUDING WEEKENDS AND HOLIDAYS), PRIOR TO TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THESE ACTIVITIES SHALL CONTACT MISS UTILITY OF WEST VIRGINIA AT 811 OR 1-800-245-4848.

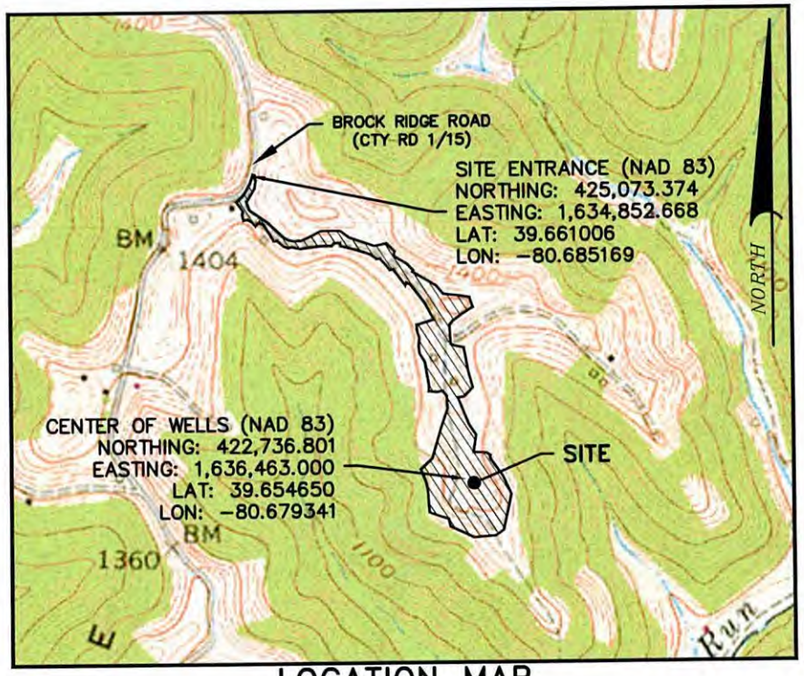
AS-BUILT SITE PLAN
FOR
CONSTANCE TAYLOR WTZ PAD
PROCTOR DISTRICT, WETZEL COUNTY, WV

PATRICK G. DENARDO REGISTERED 22040 STATE OF WEST VIRGINIA PROFESSIONAL ENGINEER

DRAWN BY: JMS
DATE: 12/08/2016
SCALE: AS SHOWN
DWG. NO. 087569006



COUNTY MAP
N.T.S.



LOCATION MAP
SCALE - 1"=1000'

ON OCTOBER 1, 2024, CHESAPEAKE ENERGY CORPORATION COMPLETED ITS PREVIOUSLY ANNOUNCED MERGER WITH SOUTHWESTERN ENERGY COMPANY. IN CONNECTION WITH THE MERGER, THE COMPANY REBRANDED UNDER THE NAME EXPAND ENERGY CORPORATION. WE ARE UPDATING THE LISTED OPERATOR INFORMATION ON THE AS-BUILT SURVEY FILES FOR FUTURE DEVELOPMENT NEEDS.

OPERATOR

EXPAND OPERATING, LLC
1300 FORT PIERPONT RD.
SUITE 200
MORGANTOWN, WV 26508
ATTN: JARED SHOCKEY
EMAIL: Jared.Shockey@expandenergy.com

BY: BRADLEY JASON BATTERSON
DATE: 01/07/2026

BRADLEY JASON BATTERSON REGISTERED 24298 STATE OF WEST VIRGINIA PROFESSIONAL ENGINEER

LIST OF DRAWINGS

TS1.1	COVER SHEET
EP2.1	EVACUATION ROUTE/PREVAILING WINDS
EP2.2	EVACUATION ROUTE/PREVAILING WINDS
AS3.1	AS-BUILT SITE PLAN
AS3.2	AS-BUILT SITE PLAN
AS3.3	AS-BUILT SITE PLAN
CRA4.1	ACCESS ROAD PROFILES
CRA4.2	PAD CROSS SECTIONS
MRP5.1	RECLAMATION PLAN
MRP5.2	RECLAMATION PLAN
MRP5.3	RECLAMATION PLAN
MRD6.1	DETAILS
MRD6.2	DETAILS
MRD6.3	DETAILS

SITE DATA

TOTAL DISTURBED AREA: 18.72 ACRES
ROAD DISTURBED AREA: 9.73 ACRES
PAD DISTURBED ACRES: 8.99 ACRES
ACCESS ROAD LENGTH: 3,250'
ACCESS ROAD AVERAGE WIDTH: VARIES
WELL PAD ELEVATION: 1430.20

WELL API NUMBERS

WELL NUMBER	API NUMBER	CELLAR DIAMETER	CELLAR DEPTH	CELLAR MATERIAL
5H	103-03149	8 FT	8 FT	CMP
8H	103-03150	8 FT	8 FT	CMP

TS1.1

RETTEW

RETTEW Associates, Inc.
One Robinson Plaza, 6600 Steubenville Pike, Suite 200,
Pittsburgh, PA 15205
Phone (412) 446-1728 - Fax (412) 446-1733
Engineers • Planners • Surveyors • Landscape Architects
Environmental Consultants

COVER SHEET FOR CONSTANCE TAYLOR WTZ PAD
PROCTOR DISTRICT WETZEL COUNTY, WV

WW-6A7
(6-12)

OPERATOR: Expand Operating LLC WELL NO: Constance Taylor WTZ 410H

PAD NAME: Constance Taylor WTZ

REVIEWED BY: _____ SIGNATURE: Brittany Woody

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

Well Restrictions ****Pad Built 12/15/16**

☐ 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