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, September 15, 2026
WELL WORK PERMIT
Horizontal 6A / New Drill

EXPAND OPERATING LLC
6100 N WESTERN AVE.

OKLAHOMA CITY, OK 73118

Re: Permit approval for Ruth Keller MSH 1005H
47-051-02601-00-00

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:	Ruth Keller MSH 1005H
Farm Name:	Brian J Keller, David J & Alice M Cook
U.S. WELL NUMBER:	47-051-02601-00-00
Horizontal 6A	New Drill
Date Issued:	9/15/2026

09/18/2026

API Number: 47-051-02601

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.

09/18/2026

WW-6B
(04/15)

API NO. 47- 051 - 02601
OPERATOR WELL NO. Ruth Keller MSH 1005H
Well Pad Name: Ruth Keller MSH

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

1) Well Operator:	Expand Operating LLC	494533012	051-Marshal	7-Union	486-Moundsville
		Operator ID	County	District	Quadrangle

2) Operator's Well Number: Ruth Keller MSH 1005H Well Pad Name: Ruth Keller MSH

3) Farm Name/Surface Owner: Brian Keller, David Cook, Suzanne Cook, Steven Cook, Andrew Public Road Access: Glen Dale Heights Road

4) Elevation, current ground: 1327' Elevation, proposed post-construction: 1327'

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, Up-Dip well to the North, Target Top TVD- 6373', Target Base TVD- 6429', Anticipated Thickness- 56', Associated Pressure- 4172

8) Proposed Total Vertical Depth: 6371'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 35,507'

11) Proposed Horizontal Leg Length: 27,060.81'

12) Approximate Fresh Water Strata Depths: 462'

13) Method to Determine Fresh Water Depths: Depth reported from nearby well 4705102515 WR-35

14) Approximate Saltwater Depths: 1216' salinity profile

15) Approximate Coal Seam Depths: 835'

16) Approximate Depth to Possible Void (coal mine, karst, other): Possible Void 835'

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: _____

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Strader Gower
7/9/2026

09/18/2026

WW-6B
(04/15)

API NO. 47- 051 - 02601
OPERATOR WELL NO. Ruth Keller MSH 1005H
Well Pad Name: Ruth Keller MSH

18) **CASING AND TUBING PROGRAM**

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94#	136'	136'	CTS
Fresh Water	13 3/8"	New	J-55	54.4#	885'	885'	1021 sx/CTS
Coal	See	Surface	Casing				
Intermediate	9 5/8"	New	J-55	36#	2800'	2800'	1091 sx/CTS
Production	6"	New	P-110 HP	24#	0'	6500'	
Production	5 1/2"	New	P-110 HP	20#	6500'	35,507'	Tail 6648sx/ 100' Inside Intermediate
Liners							

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

PACKERS

Kind:				
Sizes:				
Depths Set:				

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WW-6B
(10/14)

API NO. 47- 051 - 02601
OPERATOR WELL NO. Ruth Keller MSH 1005H
Well Pad Name: Ruth Keller MSH

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

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

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 6.78

22) Area to be disturbed for well pad only, less access road (acres): 4.30

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.

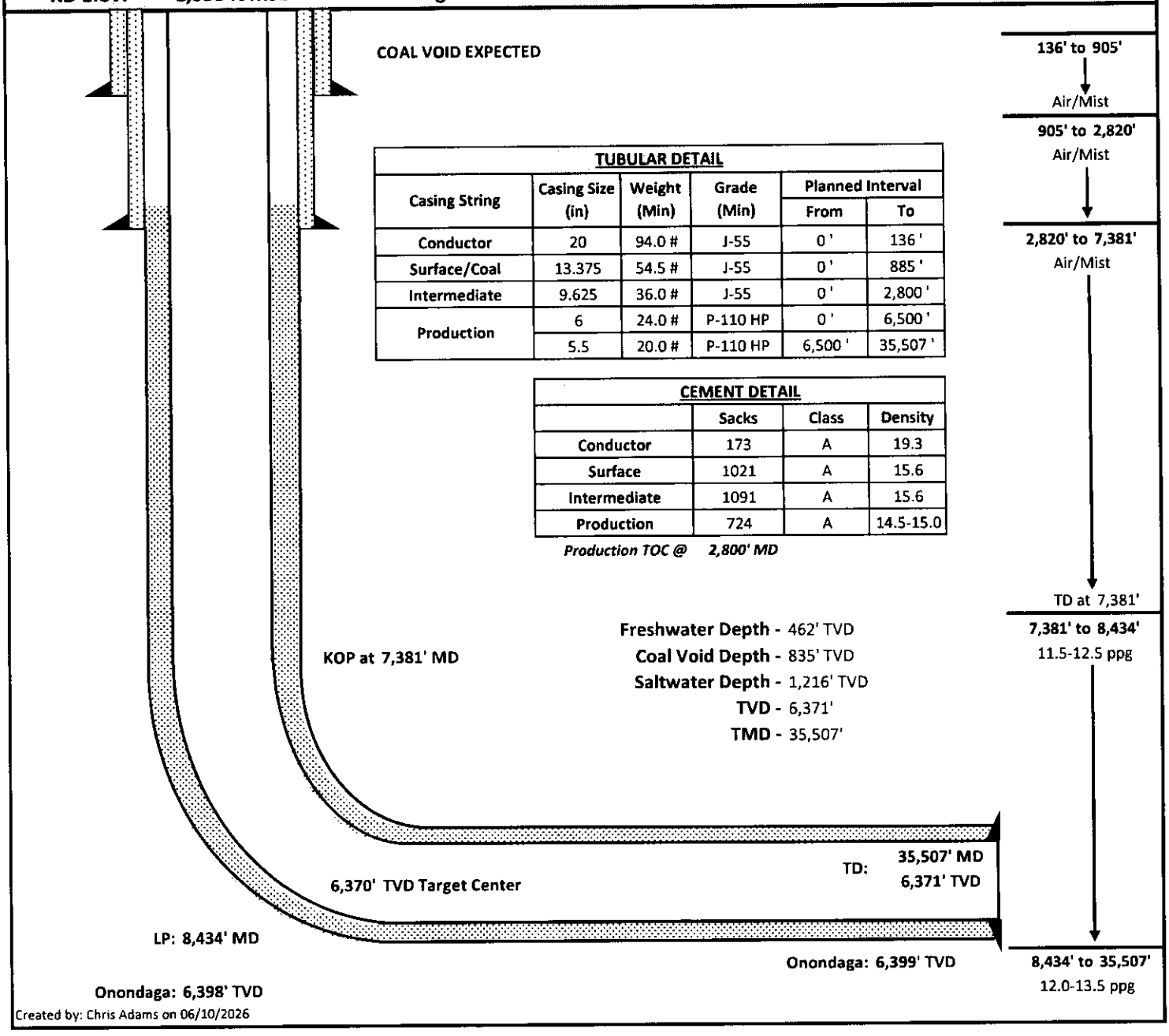
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CEMENT ADDITIVES						
INTERVAL	SCHLUMBERGER PRODUCT NAME	BJ PRODUCT NAME	NEXTIER PRODUCT NAME	PRODUCT USE	CHEMICAL NAME	CAS-Number
SURFACE (FRESHWATER)		INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
up to 3%	S001	A-7P	0110	ACCELERATOR	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:	Ruth Keller MSH 1005H	**Drilling Rig:**	EDC 501
Field:	Panhandle Field Wet	**Formation:**	Marcellus Shale
County:	Marshall	**State:**	WV
SHL (NAD83):	39.985658 Latitude	-80.695724 Longitude	
BHL (NAD83):	40.060109 Latitude	-80.714379 Longitude	
KB Elev:	1,353 ft MSL	**KB Height:** 26 ft AGL	**GL Elev:** 1,327 ft MSL



TUBULAR DETAIL

Casing String	Casing Size (in)	Weight (Min)	Grade (Min)	Planned Interval From	Planned Interval To
Conductor	20	94.0 #	J-55	0 '	136 '
Surface/Coal	13.375	54.5 #	J-55	0 '	885 '
Intermediate	9.625	36.0 #	J-55	0 '	2,800 '
Production	6	24.0 #	P-110 HP	0 '	6,500 '
	5.5	20.0 #	P-110 HP	6,500 '	35,507 '

CEMENT DETAIL

	Sacks	Class	Density
Conductor	173	A	19.3
Surface	1021	A	15.6
Intermediate	1091	A	15.6
Production	724	A	14.5-15.0

Production TOC @ 2,800' MD

Created by: Chris Adams on 06/10/2026

Stephen Gower
Strader Gower
7/9/2026

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47-051-02601

WW-9
(4/16)

API Number 47 - 051 -
Operator's Well No. Ruth Keller MSH 1005H

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) Short Creek Ohio River Quadrangle Moundsville

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

Will a pit be used? Yes ☐ No ☑

If so, please describe anticipated pit waste:

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

Proposed Disposal Method For Treated Pit Wastes:

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

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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

Subscribed and sworn before me this 14 day of May, 20 26

Elizabeth Blankenship Notary Public

My commission expires 6/23/2029

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
Elizabeth Blankenship
[illegible]
My Commission Expires June 23, 2029

09/18/2026

Form WW-9

Operator's Well No. Ruth Keller MSH 1005H

Expand Operating LLC

Proposed Revegetation Treatment: Acres Disturbed 4.30 Prevegetation pH _____

Lime as determined by pH test min.2 Tons/acre or to correct to pH 6.78

Fertilizer type 10-20-20

Fertilizer amount 600/500 lbs/acre

Mulch Hay/Straw Tons/acre

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Seed Mixtures

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

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: STRADER GOWER

Comments: _____

Title: Oil & Gas Inspector Date: 7/9/2026

Field Reviewed? (X) Yes ( ) No

47-051-02601

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: Ruth Keller MSH 1005H
Moundsville QUAD
Union DISTRICT
MARSHALL COUNTY, WEST VIRGINIA

Submitted by:

Name: Brittany Woody Date: 4/29/2026

Brittany Woody

Title: Senior Regulatory Analyst Expand Energy

Approved by:

Name: STRADER GOWER Date: 7/9/2026

Title: Oil & Gas Inspector

Approved by:

Name:_____ Date: _____

Title: _____

Expand Energy – CONFIDENTIAL

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

Water Purveyor Map

Created By: Nick Mano
Date Exported: 5/20/2026

Spatial Reference
Name: NAD 1983 BLM Zone 17N Ft US

1500' BUFFER
SPRING
POND
WELL

WELL PAD: RUTH KELLER

COUNTY: MARSHALL

0 50' 100' 200'

Scale: 1" = 100'

09/18/2026

Latitude: 40°00'00" — SURFACE HOLE 8,141'

Latitude: 40°05'00" — BOTTOM HOLE — 1,692'

SURFACE HOLE 5,225'

BOTTOM HOLE 8,461'

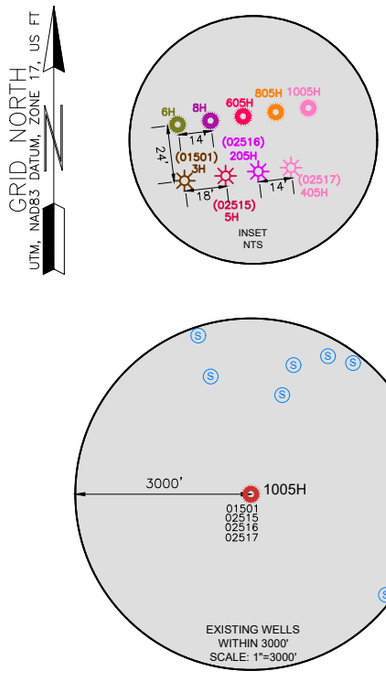
Longitude: 80°40'00"

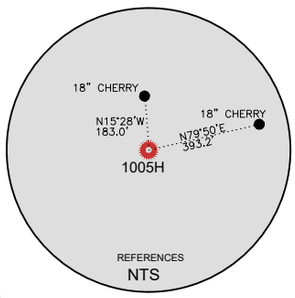
Longitude: 80°42'30"

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

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,426,209.760 EASTING: 525,978.395
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,426,746.401 EASTING: 527,259.313
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,434,467.869 EASTING: 524,359.157

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	S 71°49'19" W	481.77'	SHL TO LANDMARK	5/8" REBAR FOUND
L2	N 32°57'26" W	600.22'	SHL TO LANDMARK	5/8" REBAR FOUND
LINE	**BEARING**	**DISTANCE**	**CURVE LENGTH**	**DESCRIPTION**
L3	N 67°16'07" E	4,556.39'	4,998.34'	SHL TO LPL





BHL

WELL RESTRICTIONS

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

NOTES ON SURVEY

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

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

P.S. 708 David L Jackson

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

2000 0 2000

GRAPHIC SCALE IN FEET

COMPANY: expand

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

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

MINIMUM DEGREE OF ACCURACY: 1/200

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

OPERATOR'S WELL #: RUTH KELLER MSH 1005H

API WELL #: 47 (STATE) 051 (COUNTY) 02601 (PERMIT)

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

WATERSHED: SHORT CREEK OHIO RIVER (HUC-10) ELEVATION: 1327.3'

DISTRICT: UNION COUNTY: MARSHALL QUADRANGLE: MOUNDSVILLE, WV

SURFACE OWNER: BRIAN J. KELLER & DAVID J. & ALICE M. COOK (TOD) ACREAGE: ±173.061

OIL & GAS ROYALTY OWNER: BRIAN J. KELLER & DAVID J. & ALICE M. COOK (TOD) ACREAGE: ±173.061

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

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

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,370' TVD 35,507' TMD 09/18/2026

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

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

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

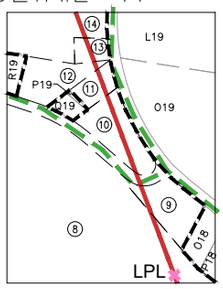
REVISIONS:	DATE: 06-09-2026
	DRAWN BY: N. MANO
	SCALE: 1" = 2000'
	DRAWING NO:
	WELL LOCATION PLAT

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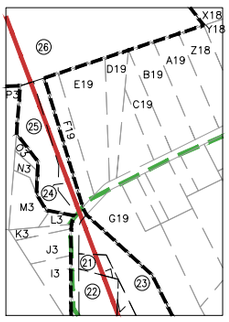
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Clarksburg, WV 26302
304-623-5851

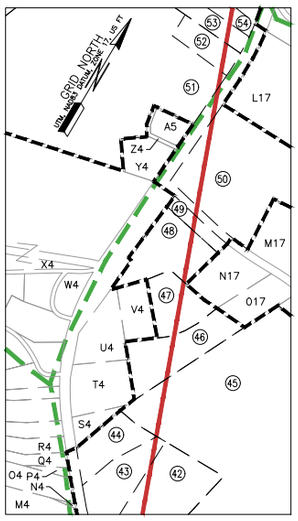
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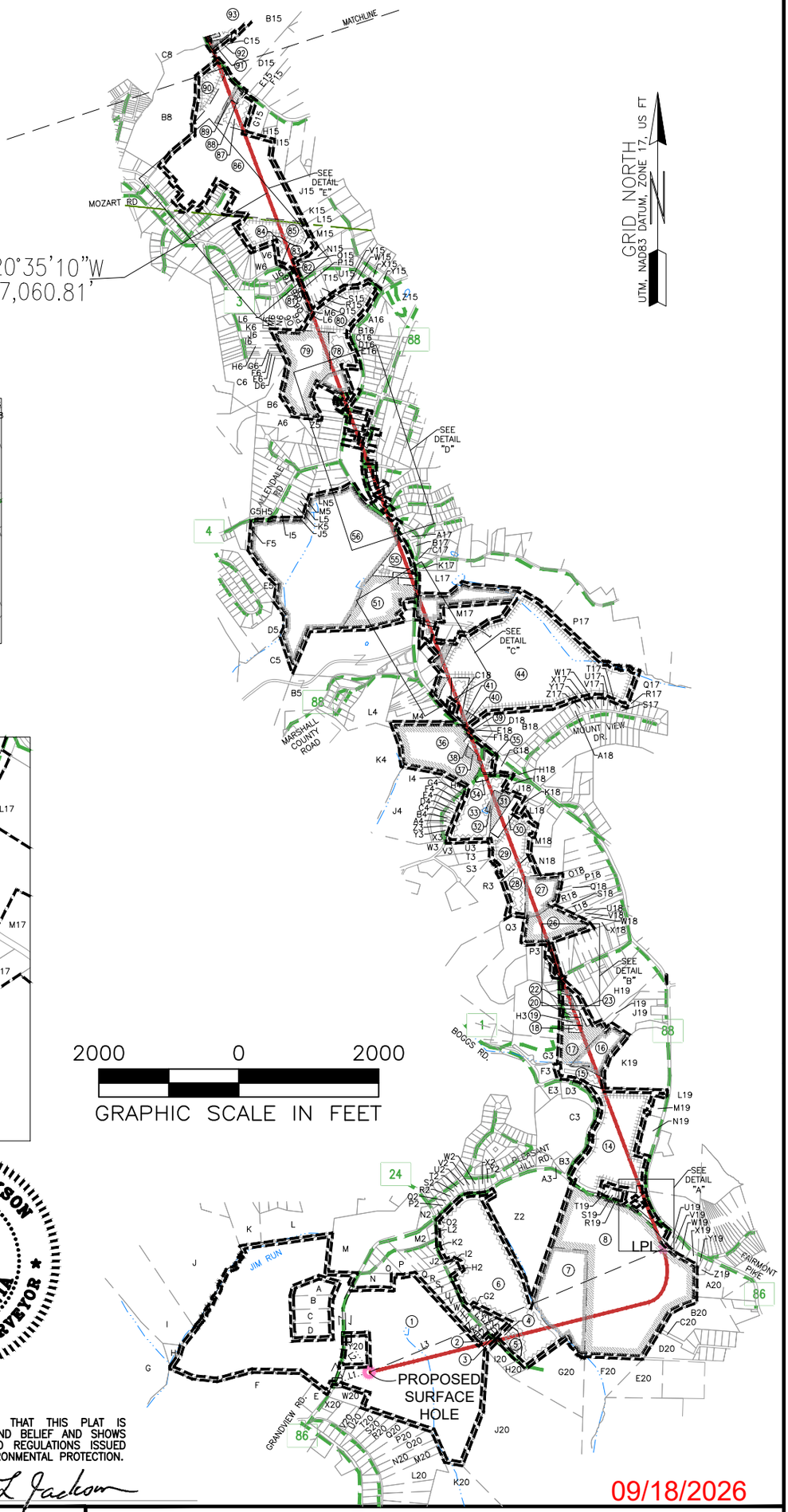


DETAIL "B"



DETAIL "C"





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

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

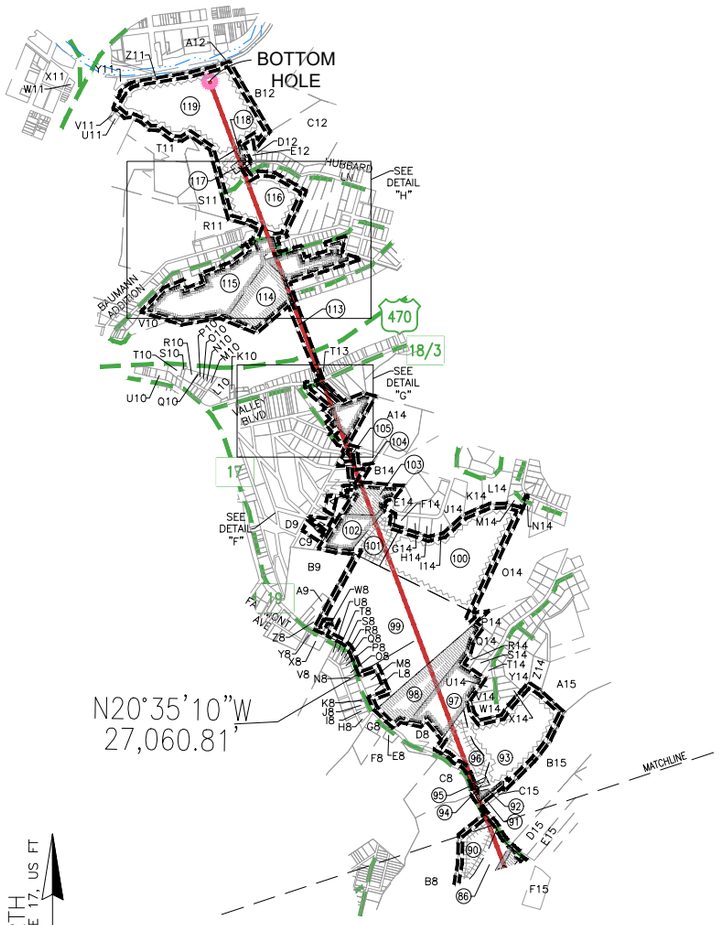
P.S. 708 David L Jackson

09/18/2026

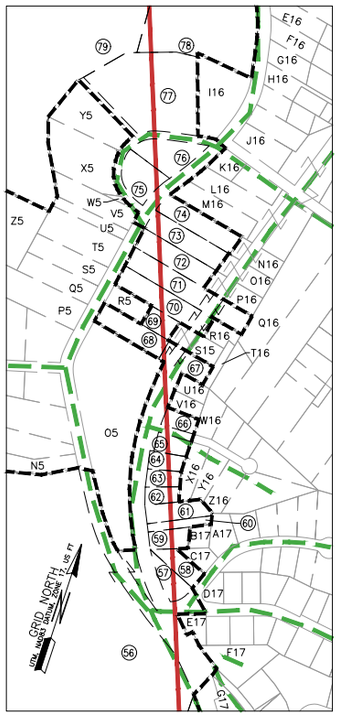
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DISTRICT: UNION	COUNTY: MARSHALL	STATE: WV	DRAWN BY: N. MANO SCALE: N/A DRAWING NO: WELL LOCATION PLAT 2

Z:\2026 BACKUPS\1-02-26 DJ\EXPAND\RUTH KELLER\RUTH KELLER MSH\WELL PLATS\1005H\FINAL\6-09-26\RUTH KELLER MSH 1005H 6-09-26.DWG
TUESDAY JUNE 09 2026 09:48AM

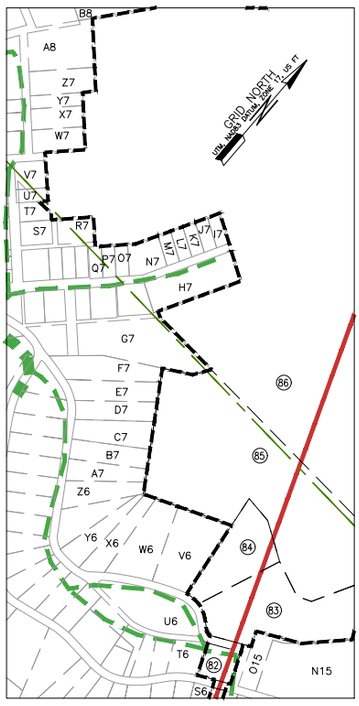
JACKSON SURVEYING
INC.
2413 EAST PIKE ST. # 112
Clarksburg, WV 26302
304-623-5851



DETAIL "D"



DETAIL "E"



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.

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

David L Jackson
P.S. 708

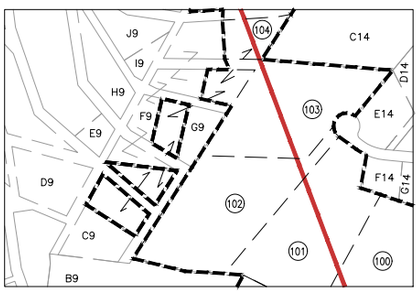
09/18/2026

REVISIONS:	COMPANY: eXpand			
	OPERATOR'S WELL #: RUTH KELLER MSH 1005H		API #: 47-051-02601	DATE: 06-09-2026
				DRAWN BY: N. MANO
	DISTRICT: UNION	COUNTY: MARSHALL	STATE: WV	SCALE: N/A
				DRAWING NO: WELL LOCATION PLAT 3

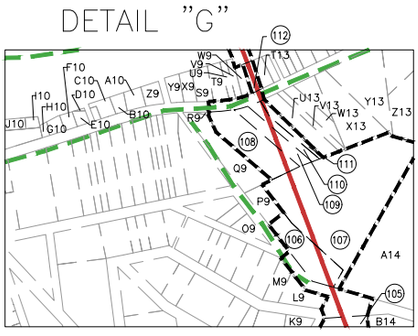
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TUESDAY JUNE 09 2026 09:48AM

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INC.
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304-623-5851

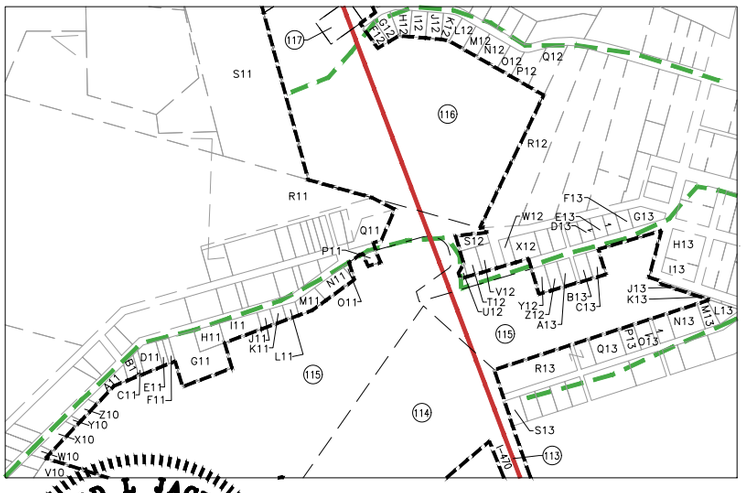
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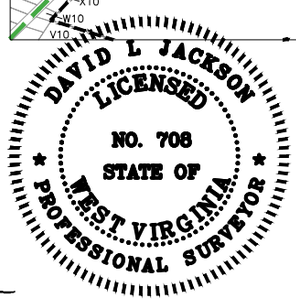


DETAIL "G"



DETAIL "H"





David L Jackson

09/18/2026

REVISIONS:	COMPANY: eXpand			
	OPERATOR'S WELL #:	RUTH KELLER MSH 1005H	API #: 47-051-02601	DATE: 06-09-2026
				DRAWN BY: N. MANO
	DISTRICT: UNION	COUNTY: MARSHALL	STATE: WV	SCALE: N/A
				DRAWING NO: WELL LOCATION PLAT 4

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TUESDAY JUNE 09 2026 09:49AM

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

WELL BORE TRACTS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	KELLER BRIAN J & COOK DAVID J & ALICE M ET AL (S/R)	13-6-50
TRACT	SURFACE OWNER (S)	TAX PARCEL
2	YOUNG CAROL L (S)	13-7-51
3	YOUNG CAROL L (S)	13-7-50
4	SANTONAS JORDAN C & CLAIRE (S)	13-7-49
5	JACKSON MICHELE D & DAVID L (S)	13-7-54
6	TUSKEY SHELLEY L & ROBERT K (S)	13-7-40
7	CALDWELL JANICE ANN EST - LIFE (S)	13-7-38
8	CALDWELL JANICE ANN EST - LIFE (S)	13-7-37
9	WEBB LOUETTA & JERRY W (S)	13-7-10
10	KAHLBAUGH DAVID W & DELORES J - TOD (S)	13-7-37.1
11	HENDERSON PAUL M (S)	13-7-9
12	BRINKLEY MATTHEW N & SHILA M (S)	13-7-6
13	CRIM CHRISTOPHER (S)	13-7-8
14	BRAUTIGAN FAMILY IRREVOCABLE TRUST (S)	13-7-3
15	HUDSON AARON M & BARBARA ANN (S)	13-4-46
16	RINE PATRICK (S)	13-4-45
17	KURZ JOAN T (S)	13-4-39.1
18	KURZ JOAN T (S)	13-4-39.6
19	KURZ JOAN T (S)	13-4-39.5
20	TAYLOR CAROLYN L (S)	13-4-39.8
21	EVICK ANTHONY R II & BRANDON P (S)	13-4-39.16
22	EVICK ANTHONY R II & BRANDON P (S)	13-4-39.7
23	WOOD HARLEY S & NICKI L (S)	13-4-39.12
24	HODGEKISS MAURICE J - LIFE (S)	13-4-39.18
25	HODGEKISS MAURICE J - LIFE (S)	13-4-39.17
26	GUMP LOUIS M & ROBIN A (S)	13-4-38
27	HILL MICHAEL W ET UX (S)	13-4-13.5
28	HEWITT MICHAEL T JR & JESSICA (S)	13-4-13.6
29	TOWN & COUNTRY ANIMAL HOSP INC (S)	13-4-12
30	LOPEZ ABIGAIL L (S)	13-4-12.2
31	LOPEZ ABIGAIL L (S)	13-4-12.1
32	TOWN & COUNTRY ANIMAL HOSP INC (S)	13-4-8
33	BLANKENSHIP CONRAD C JR ET UX - TOD (S)	13-4-59
34	SCHULTZ CHARLES L II & JANET (S)	13-4-59.2
35	LESCH MARK L (S)	13-4-3
36	SCHULTZ JANET S ET VIR (S)	13-4-1
37	SHAW PAMELA J (S)	13-4-1.2
38	SHAW PAMELA J (S)	13-4-1.1
39	WV DEPARTMENT OF HIGHWAYS (S)	STATE RT 88
40	FUSCO EMILIE S - RIGHT TO OCCUPY (S)	13-2-61
41	SMITH JOHNNIE L & JOYCE A (S)	13-2-60
42	PARSONS PAUL H & HELEN R - RIGHT TO OCCUPY (S)	13-2-59
43	KALE CHARLES E & ERIN J (S)	13-2-58.2
44	BOLES CHRISTOPHER D & STACIE L (S)	13-2-58
45	MCCLURE EARL R & CHERYL L (S)	13-2-62
46	FINLEY MICHAEL A & CASSANDRA M (S)	13-2-57.5
47	STOCKING BRADLEY T & LESLIE A (S)	13-2-57.4
48	SOMERVILLE DOUGLAS R & ASHLEY (S)	13-2-56
49	HANKET SYDNEY (S)	13-2-54
50	YEAGER HEIKKI & TRISHA JO (S)	13-2-53
51	ALTMAN DOROTHY ANN EST (S)	13-1-80.1
52	BROWN JOSHUA L (S)	13-1-80
53	MARZEC ANDREW M & JESSICA A (S)	13-2-44.1
54	MARZEC ANDREW M & JESSICA A (S)	13-2-44.9
55	BLATTNER MARY ANN (S)	13-2-44.8
56	REDD JON D & BREIANNE V (S)	13-1-79
57	BLACKMORE ORVILLE A JR ET UX (S)	13-2B-1
58	BLACKMORE ORVILLE A JR ET UX (S)	13-2B-2
59	PERRY JASON T (S)	13-2C-17

TRACT	SURFACE OWNER (S)	TAX PARCEL
60	628FAL1003 TRUST (S)	13-2C-17.1
61	628FAL1003 TRUST (S)	13-2C-16
62	STEPHENSON KELLY L (S)	13-2C-15
63	WARD CYNTHIA J (S)	13-2C-14
64	CYNDAL LLC (S)	13-2C-13
65	MILLER JENEANE A (S)	13-2C-12
66	MONARCH DEVELOPMENT LLC (S)	13-2C-11
67	STATE ROAD COMM (S)	13-2A-51
68	GANTZER PATRICK R ET UX (S)	13-2A-16
69	FONNER JAMES R & CHERYL L (S)	13-2A-15
70	WALLACE DAVID S & MICHAEL LEE ET AL (S)	13-2A-14
71	STATE ROAD COMM (S)	13-2A-13
72	JOCHUM SANDRA L & BRIAN K (S)	13-2A-12
73	ANDERSON CHARLA (S)	13-2A-11
74	SASEEN JEREMY R (S)	13-2A-10
75	MAZELTON JOHN K & CHRISTINA E (S)	13-1G-36
76	ARRITT SHARON R (S)	13-1G-41
77	ARRITT SHARON R (S)	13-1-33.3
78	CLAUSELL DARRYL ET AL (S)	13-1-33.2
79	ACQUISITION LLC (S)	13-1-33
80	MT OLIVE CEMETERY (S)	13-1-32
81	STEWART LISA A (S)	13-1F-5
82	HUFF JOSEPH M ET UX (S)	13-1E-35
83	KNIGHT WILLIAM P & JANET M TR REVOCABLE LIVING TRUST (S)	13-1E-31
84	SULLIVAN ANDREA J (S)	13-1E-30
85	HOUCK RICHARD CHARLES & MARISA ANN (S)	13-1E-32
86	TORI JO CALVERT; CURTIS F. GANTZ; LETHA EANN YURKO GRIFFIN; MICHAEL LANE YURKO GLOVE; PAUL L. YURKO; JAMES C. YURKO (S)	13-1E-17
87	MENCER KIMBERLY SUE (S)	05-RE2-41
88	BAKER RAYMOND E (S)	05-RE2-40
89	BAKER RAYMOND E (S)	05-RE2-39
90	HERCULES TAMMY L (S)	05-RE2-30
91	STEVEY GEORGE JR (S)	05-RE2-36.3
92	STEVEY GEORGE J JR & KIMBERLY (S)	05-RE2-36.1
93	POMPEO JOSEPH D (S)	05-RE2-36
94	CARNEY MELISSA D (S)	05-RE2-35.1
95	CARNEY MELISSA D (S)	05-RE2-35
96	MCDANIEL BOBBIE JO & THOMAS R ULLOM (S)	05-RE2-34
97	HUMES MICHAEL G - TOD (S)	01-RB2-1.7
98	HUMES MICHAEL G - TOD (S)	01-RB2-1.3
99	LEMLEY LARRY D (S)	05-RE2-32
100	KHAN NASIR A & SHAISTA(S)	01-RB2-1.18
101	KHAN NASIR A & SHAISTA(S)	01-RB2A-11
102	GRECO RICK A & C A A (S)	01-RB2A-12
103	GRECO RICK A & C A A (S)	01-RB2A-1
104	VEMURI HOME & GARDEN (S)	05-RE1R-1
105	VEMURI HOME & GARDEN LLC (S)	05-RE1R-11
106	CARPENTER THOMAS W (S)	05-RE1K-154
107	SCHIFFER THOMAS (S)	01-RB1-4
108	STAPEL LISA A (S)	05-RE1K-104
109	STAPEL LISA A (S)	05-RE1K-104.1
110	KERO DUO LLC (S)	05-RE1K-103
111	PANDELOS ERNEST ESTATE (S)	05-RE1K-102
112	BIRKETT RONALD LEE (S)	05-RE1K-63.1
113	WEST VIRGINIA DEPARTMENT OF HIGHWAYS (S)	1-470
114	SMITH RANDALL E (S)	01-RB1-2.4
115	SMITH RANDALL E (S)	01-RB1-2.3
116	MCILVAIN WILLIAM S (S)	10-W66-167.1
117	HOLLOWAY WALKER P JR (S)	10-W66-167.2
118	HOLLOWAY WALKER P JR (S)	10-W66-156.1
119	WHEELING NEWSPAPERS INC (S)	10-W59-482

09/18/2026

REVISIONS:	COMPANY: eXpand			
	OPERATOR'S WELL #:	RUTH KELLER MSH 1005H	API #: 47-051-02601	DATE: 06-09-2026
				DRAWN BY: N. MANO
	DISTRICT: UNION	COUNTY: MARSHALL	STATE: WV	SCALE: N/A
				DRAWING NO: WELL LOCATION PLAT 5

Z:\2026 BACKUPS\1-02-26 DJ\EXPAND\RUTH KELLER\RUTH KELLER MSH\WELL PLATS\1005H\FINAL\6-09-26\RUTH KELLER MSH 1005H 6-09-26.DWG
TUESDAY JUNE 09 2026 12:31PM

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

*Highlighted Parcels may be impacted during drilled.

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	BURKE ANDREA M & JAMES D	13-6-50.6
B	COOK DAVID J & ALICE - TOD	13-6-50.8
C	COOK STEVEN M & SHANNON R	13-6-50.3
D	COOK SUZANNE	13-6-50.4
E	DEFIBAUGH RONALD L	13-11-27.8
F	DEFIBAUGH RONALD L	13-11-27.1
G	LIPINSKI ERIC R & LORIE A	13-6-51
H	HAUGHT GEORGE ET UX	13-6-50.1
I	HAUGHT GEORGE ET UX	13-6-51.1
J	LONGWELL FRANK J & LORI A	13-6-49
K	O'NEAL CYNTHIA	13-6-45
L	HULL GAYLERD F & SHARON	13-6-23.11
M	CALDWELL CHRISTIAN A	13-7-1.1
N	KELLER BRIAN J & JANET	13-6-50.5
O	HECKMAN FLORA BELLE - TOD	13-7C-18
P	VANNEST ALEX M & HOWARD ALLIE R	13-7C-17
Q	GAMBLE CYNTHIA M	13-7C-10
R	HARBISON WALTER L	13-7C-9
S	HARBISON WALTER L EST	13-7C-8
T	RENZELLA PATRICIA R	13-7C-7
U	DEL RE MARVIN E ET UX	13-7C-6
V	GUMP MARTIN L	13-7C-5
W	PEACE NATHANIEL O & ELAINE M	13-7C-4
X	PEACE NATHANIEL O & ELAINE M	13-7C-3
Y	NOVICK RYAN J & ALEXANDRA P	13-7C-2
Z	ELSON LINDA S & SAMUEL F	13-7C-1
A2	SEACHRIST MARGARET TURNER - TOD	13-7-44
B2	SEACHRIST MARGARET TURNER -TOD	13-7-45
C2	STAMPER LARRY J & PAULA JO - TOD	13-7-47
D2	FREELAND BYRON C & KATHRYN A - TOD	13-7-53
E2	LEMMON CHRISTOPHER D & STACIE	13-7-46
F2	DUFFIELD CORY L & YVETTE C	13-7-42
G2	DUFFIELD CORY L & YVETTE C	13-7-48
H2	RIGBY RALPH V ET UX	13-7-40.2
I2	SMITH MARK S ET UX	13-7-40.1
J2	BONENBERGER J KEITH ET UX	13-7C-11
K2	HAUGHT CLIFTON R ET EX	13-7C-12
L2	GAMBLE AMY JEAN	13-7C-23
M2	GAMBLE REBECCA C EST	13-7C-22
N2	SCHERICH LEIGH ANN	13-7-1.4
O2	HILL SANDRA K	13-7B-31
P2	COLE JEFFREY M	13-7B-30
Q2	SARCOPSKI JOHN C & KAYLA	13-7B-29
R2	YOCUM TWILA E	13-7B-28
S2	J & N PARRIOTT LLC	13-7B-27
T2	FITZPATRICK SEAN M ET AL	13-7B-26
U2	FITZPATRICK SEAN M ET AL	13-7B-25
V2	FORD MATTHEW KYLE	13-7B-24
W2	FORD MATTHEW KYLE	13-7B-23
X2	VANDYNE JEFFREY WAYNE JR	13-7B-40
Y2	DAILEY LORETTA D	13-7B-41
Z2	AMRHEN PAUL F II & PHYLLIS - TOD	13-7-39
A3	LEMMON CHAD M & MICHELLE B	13-7-2.3
B3	LEMMON CHAD M & MICHELLE B, BRAUTIGAN M	13-7-2.2
C3	SIMONS KAREN J - TOD	13-7-2
D3	TAYLOR RONALD K JR	13-7-1.3
E3	ERAZMUS JOHN T III	13-7-1
F3	O'BRIGHT CHARLES B	13-4-49
G3	TARR LORI J & WHORTON JOHN D	13-4-53.4
H3	TARR LORI J & WHORTON JOHN D	13-4-53.1
I3	EVICK BRANDON P	13-4-39.4
J3	CARROLL NANCY L	13-4-39.3
K3	HODGEKISS MAURICE J - LIFE	13-4-39.2
L3	HODGEKISS MAURICE J - LIFE	13-4-39.15
M3	HODGEKISS MAURICE J - LIFE	13-4-39.10
N3	HODGEKISS MAURICE J - LIFE	13-4-39.13
O3	HODGEKISS MAURICE J - LIFE	13-4-39.14
P3	HODGEKISS MAURICE J - LIFE	13-4-53.2
Q3	HODGEKISS MAURICE J - LIFE	13-4-53.3
R3	KEEDY KATHLEEN L	13-4-59.9
S3	BRATTON DOUGLAS A & RENA M	13-4-59.12
T3	POLING AARON M & ANDREA C	13-4-59.7
U3	RICHARDS LORI A	13-4-59.6

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
V3	RICHARDS LORI A	13-4-59.4
W3	POLING AARON	P-O 13-4-59.5
X3	ANDERSON SHARON L & EGGLESTON NATHAN R	13-4B-16
Y3	YAHN EDMUND J JR ET UX	13-4B-8
Z3	YAHN EDMUND J JR ET UX	13-4B-7
A4	YAHN EDMUND J JR ET UX	13-4B-6
B4	UHLLY MICHAEL L ET UX	13-4B-6.1
C4	UHLLY MICHAEL L ET UX	13-4B-5
D4	TAYLOR JANE LYNN	13-4B-4
E4	TAYLOR JANE LYNN	13-4B-3
F4	HARKLESS DONALD B	13-4B-2
G4	HARKLESS DONALD B	13-4B-1
H4	KINNICK FAMILY TRUST	13-4B-9
I4	STIDD FAMILY TRUST	13-4-59.10
J4	STIDD FAMILY TRUST	13-4-59.3
K4	PARSONS DONNA KAY	13-5-20
L4	STEELE RONALD J ET UX	13-5-19
M4	RAMSEY ROBERT W SR ET UX	13-4E-11
N4	SCHMITT STEPHEN P ET UX	13-4E-10
O4	SCHMITT STEPHEN P ET UX	13-4E-9
P4	SCHMITT STEPHEN P ET UX	13-4E-8
Q4	STIPETICH JONATHAN M	13-4E-7
R4	STIPETICH JONATHAN M	13-4E-6
S4	LAUGHLIN JAMES A JR	13-2-57.1
T4	GIVENS CARRIE ANN	13-2-57.3
U4	BERLINKSKI KIMBERLY A	13-2-57
V4	CALLAHAN SEAN F & HAYLEY	13-2-57.2
W4	EDWARDS TRAVIS	13-1-85.2
X4	OHIO COUNTY COAL RESOURCES INC	13-1-83
Y4	CALLAHAN JANET L	13-1-82
Z4	CALLAHAN JANET L	13-1-80.2
A5	CALLAHAN JANET L	13-1-81
B5	SHUTLER ROBERT J II & ANTOINETTE	13-5-15.1
C5	OHIO COUNTY COAL RESOURCES INC	13-5-14.1
D5	MARSHALL CO SEWERAGE DIST	13-1J-51
E5	PETTIT STEPHEN K & ELIZABETH A	13-1-78
F5	MARSH ROBERT A - LIFE	13-1-79.1
G5	MARSH ROBERT A - LIFE	13-1G-12
H5	YUNCKE JAMES - TOD	13-1G-11
I5	WESOLOWSKI JOHN J ET UX	13-1G-10
J5	YUNCKE THOMAS J ET UX	13-1G-9
K5	YUNCKE MARK & JOLIE	13-1G-8
L5	FONNER JAMES R & CHERYL L	13-1G-7
M5	PEGG JAMES TODD	13-1G-6
N5	HODGES JOSEPH H REV	13-1-79.2
O5	SWINT JOHN J THE MOST REV	13-2-46
P5	ALLEN STACY L & BROWN KEVIN C	13-1G-25
Q5	WARMAN CARRIE A	13-1G-26
R5	MCCONNELL ROBERT JR & JENNIFER	13-2A-15.1
S5	PASSARELLO RICHARD J & MISTI D	13-1G-27
T5	PROGER EDITH M - TOD	13-1G-28
U5	MOSES AARON	13-1G-29
V5	MOSES AARON	13-1G-30
W5	MOSES AARON	13-1G-45
X5	RAFA GREG L & LAURA E	13-1G-42
Y5	CHAYKOWSKY JOHN E ET UX	13-1G-43
Z5	MOSES AARON G & GARY JAMES	13-1G-38
A6	RODKIN CAROLE	13-1G-40
B6	BURLITCH FRANCES ET AL	13-1-33.1
C6	BURLITCH FRANCES ET AL	13-1F-30
D6	YATES RUSSELL	13-1F-31
E6	BURSKEY JOSEPH JR	13-1F-32
F6	BURSKEY JOSEPH JR	13-1F-33
G6	BURSKEY JOSEPH JR	13-1F-34
H6	LOEW ALEESHA	13-1F-35
I6	ALVENDIA EDUARDO L & RACHEL G	13-1F-36
J6	ALVENDIA EDUARDO L & RACHEL G	13-1F-37
K6	MCCLEARN ELLIOTT E JR ET UX	13-1F-38
L6	MARTIN JAMES D III	13-1F-12.1
M6	MARTIN JAMES D III	13-1F-12
N6	WHITE KATHLEEN M	13-1F-11
O6	WHITE KATHLEEN M	13-1F-10
P6	TURNER STEPHANIE JEAN	13-1F-9

09/18/2026

REVISIONS:

COMPANY: expand

OPERATOR'S WELL #:	RUTH KELLER MSH 1005H	API #: 47-051-02601	DATE: 06-09-2026
DISTRICT: UNION	COUNTY: MARSHALL	STATE: WV	DRAWN BY: N. MANO
			SCALE: N/A
			DRAWING NO: WELL LOCATION PLAT 6

Z:\2026 BACKUPS\1-02-26 DJ\EXPAND\RUTH KELLER\RUTH KELLER MSH\WELL PLATS\1005H\FINAL\6-09-26\RUTH KELLER MSH 1005H 6-09-26.DWG
TUESDAY JUNE 09 2026 09:50AM

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

*Highlighted Parcels may be impacted during drilled.

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
Q6	TURNER STEPHANIE JEAN	13-1F-8
R6	STEWART LISA A	13-1F-7
S6	STEWART LISA A	13-1F-6
T6	HAYNES JAMES N & TINA M	13-1E-36
U6	WHITE WILLIAM J & MARY J	13-1E-58
V6	DOTY MICHAEL JACKSON	13-1E-29
W6	HANNAN WAYNE H ET UX	13-1E-28
X6	WILDS JOHN W II	13-1E-27
Y6	MYERS RONALD J & AIMEE VITALE	13-1E-26
Z6	PREZKOP ROBERT J ET UX	13-1E-24
A7	GESSLER FRANK	13-1E-23
B7	KING JACOB S	13-1E-22
C7	BAKER GENE RAY	13-1E-21
D7	JENKINS MARLA	13-1E-20
E7	VARGO LINETTE M	13-1E-19
F7	KOCIBAN LORA LEE - RIGHT TO OCCUPY	13-1E-18
G7	PROSTINAK NANCY LEE WHITE ET AL	13-1E-17
H7	BLAZIER JAMES A & LISA	05-RE2-29
I7	BLAZIER WILLAIM F - TOD	05-RE2-21
J7	BLAZIER WILLAIM F - TOD	05-RE2-14
K7	BLAZIER WILLAIM F	05-RE2-15
L7	TOMLINSON JANET A & RALPH W	05-RE2-16
M7	TOMLINSON JANET A & RALPH W	05-RE2-17
N7	CHARLEY JILL HINES - TOD	05-RE2-18
O7	PELLEY VICTORIA S	05-RE2-19
P7	HICKS DONNA LU	05-RE2-20.1
Q7	HICKS DONNA LU	05-RE2-20
R7	BRYAN CASEY L & OLIVER JACQUELINE S	13-1E-6.1
S7	BRYAN CASEY L & OLIVER JACQUELINE S	13-1E-6
T7	BRYAN CASEY L & OLIVER JACQUELINE S	13-1E-6.2
U7	LUTZ SARA M & BRIAN C	05-RE2-24.1
V7	HICKS DONNA LU	05-RE2-24
W7	INTERRANTE CHRISTOPHER ROSS	05-RE2-25
X7	VARNER JULIE	05-RE2-26
Y7	SHEPHERD MELISSA B	05-RE2-27.1
Z7	SHEPHERD MELISSA B	05-RE2-27
A8	YENSEN CARL E & HELEN V - TOD	05-RE2-28
B8	BURNS RONALD W & BURNS JOHN & SUSAN M	05-RE2-30.1
C8	BLAKE MARY	05-RE2-31
D8	HUMES MICHAEL G - TOD	05-RE2-33
E8	LINDNER CHARLES PATRICK	05-RE2-5.1
F8	GRALL RONALD EARL JR & K F	05-RE2-5
G8	GRALL RONALD EARL JR & K F	05-RE2-3.1
H8	PELLEY VICTORIA S	05-RE2-19
I8	CHARLES JILL HINES - TOD	05-RE2-18
J8	TOMLINSON JANET A & RALPH W	05-RE2-16
K8	TOMLINSON JANET A & RALPH W	05-RE2-16.1
L8	WOODS TINA	05-RE2-32.2
M8	MCPHERSON JOSEPH G & TONYA	05-RE2-32.1
N8	MCPHERSON JOSEPH G	05-RE2B-9
O8	STEIN PAULA A	05-RE2B-8
P8	HORBATAK MICHELLE	05-RE2B-7
Q8	CAREY BETH ANN & RUSH MARY CATHERINE	05-RE1P-113
R8	CAREY BETH ANN & RUSH MARY CATHERINE	05-RE1P-112
S8	KARTANOWICZ EDNA M	05-RE1P-111
T8	WEST MARIE ELAINA	05-RE1P-110
U8	DAVIDSON BERNARD G JR & DAWN N	05-RE1P-109
V8	RADDISH JOSHUA R	05-RE2-1
W8	KARTANOWICZ EDNA MAE	05-RE2-32.3
X8	MOORE JAMES F SR & M M	05-RE1P-108
Y8	GEBHARD JASON	05-RE1P-107
Z8	HANSON JESSE ALLEN	05-RE1P-61.2
A9	HANSON JESSE ALLEN	05-RE1P-61.1
B9	KARTANOWICZ EDNA MAE	05-RE1P-60
C9	COSTAIN DOUGLAS & C M	05-RE1P-52
D9	ALTMAN WILLIAM E & D A	05-RE1P-51
E9	ALTMAN WILLIAM E & D A	05-RE1P-49
F9	COSTAIN I DOUGLAS & C M	05-RE1R-6
G9	ALTMAN WILLIAM	05-RE1R-14
H9	ALTMAN WILLIAM E & D A	05-RE1K-171
I9	VEMURI HOME & GARDEN LLC	05-RE1R-16
J9	ALTMAN WILLIAM E & D A	05-RE1K-172
K9	BLAKE RYAN	05-RE1R-15
L9	VEMURI HOME & GARDEN LLC	05-RE1R-12

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
M9	ALTMAN WILLIAM E & DEBORAH L	05-RE1K-162
N9	ALTMAN WILLIAM EDWARD & ALTMAN MCNEAL DEBRA LYNN	05-RE1K-161
O9	DAVIS HAROLD & S A	05-RE1K-155
P9	NO INFO	05-RE1K-153
Q9	DALTO DANIEL L - TOD	05-RE1K-105
R9	BOARD OF COMM OHIO CO	05-RE1K-106
S9	MCAFEE FRANCES A	05-RE1K-59
T9	VEMURI HOMES & GARDENS LLC	05-RE1K-60
U9	VANCE BRIAN NEAL	05-RE1K-61
V9	MARTIN EDW A & GLORIA J	05-RE1K-62
W9	BOHLMAN GARY H	05-RE1K-63
X9	CURTIS ELIZABETH A	05-RE1K-58
Y9	GARRISON MARY & WALTER L	05-RE1K-57.1
Z9	HERCULES TAMMIE L	05-RE1K-57
A10	BIRKETT RONALD LEE	05-RE1K-56
B10	BAKER ZACKERY E & BAKER LARRY J	05-RE1K-55
C10	BAKER LARRY J & L J	05-RE1K-54
D10	CDC PROPERTIES LLC	05-RE1K-46.1
E10	GARRISON KAREN R & J E JR C/O CDC PROP, LLC	05-RE1K-46
F10	CDC PROPERTIES LLC	05-RE1K-45
G10	SMALL LAND HOLDINGS CO LLC	05-RE1K-39
H10	SMALL LAND HOLDINGS CO LLC	05-RE1K-39.1
I10	EYESORE PROPERTIES LLC	05-RE1K-34.1
J10	KOZUSNIK GEORGE T	05-RE1K-31
K10	EDGELL JASON R	05-RE1K-28
L10	HOPE UNITED METHODIST CHURCH TRUSTEES	05-RE1K-24.2
M10	COLLINS MELLONEE L	10-W73-171
N10	PLATT WILLIAM H & TRACEY L	10-W73-170
O10	CONTI HERMAN E JR & R	10-W73-169
P10	CORBETT SIRNAMA	10-W73-168
Q10	CORBETT SIRNAMA	10-W73-168.1
R10	SMALL LAND HOLDINGS CO OF WV LLC	10-W73-167
S10	BRAUN PAUL R (LE), TAMMY COFFIELD	10-W73-182
T10	LETZELTER JOSPEH E	10-W73-167.1
U10	HLAD DOUGLAS M	10-W73-187
V10	MIKLAS GERALD M & J A	10-W73-150
W10	SHELLER DONALD L JR & SHELLER BILYNDA M	10-W73-146
X10	SHELLER DONALD L JR & SHELLER BILYNDA M	10-W73-145
Y10	SHELLER DONALD L JR SHELLER BILYNDA M	10-W73-144
Z10	SHELLER DONALD L JR	10-W73-143
A11	ROGERSON WILLIAM L - TOD	10-W73-142
B11	TLT PROPERTIES LLC	10-W73-141
C11	SNYDER ANTHONY W & FRAZIER COLLEEN G	10-W73-140
D11	OTTO ROBERT	10-W73-139
E11	OTTO ROBERT	10-W73-138
F11	RICE TERRANCE L & RICE LORRAINE M - TOD	10-W73-137
G11	RICE TERRANCE L & RICE LORRAINE M - TOD	10-W73-136
H11	RICE TERRANCE L & RICE LORRAINE M - TOD	10-W73-135
I11	RICE TERRANCE L & RICE LORRAINE M - TOD	10-W73-134
J11	SMALL LAND HOLDING CO OF WV	10-W73-133
K11	HUNTER ALVIN O	10-W66-151
L11	SMALL LAND HOLDING CO OF WV	10-W66-152
M11	TAYLOR LOGAN W & HALL JANE R	10-W66-153
N11	HALL WILLIAM F JR & DONNA D	10-W66-154
O11	WHITE DONNA K	10-W66-155
P11	SMALL LAND HOLDINGS CO	10-W66-155.1
Q11	METZ CHARLES D JR	10-W66-139.1
R11	DOBBS JULIE A AND DANIEL	10-W66-156
S11	STALEY WIRELESS LP	10-W66-176
T11	VOIGHT HENRY A; VOIGHT CONSTANTINE A	10-W66-131
U11	HEDRICK SCOTT A, HEDRICK ROBERT L	10-W59-481
V11	SCHROEDER MARY C & R J	10-W59-481.1
W11	WHEELING MUNICIPAL BUILDING COMMISSION	10-W59-456
X11	WHEELING MUNICIPAL BUILDING COMMISSION	10-W59-431
Y11	WHEELING NEWSPAPER INC	10-W59-482.1
Z11	CITY OF WHEELING	10-W59-483
A12	CITY OF WHEELING	10-W37-65
B12	KELSAM PROPERTIES LLC	10-W59-482.3
C12	EDGE DONALD	10-W67-6
D12	ULLOM DAVID A JR	10-W66-158
E12	BURNS WILLIAM E	10-W66-157
F12	BAKER MICHAEL A	10-W66-167.3
G12	BAKER MICHAEL A & JAMIE M	10-W66-174

09/18/2026

REVISIONS:

COMPANY: expand

OPERATOR'S WELL #:	RUTH KELLER MSH 1005H	API #: 47-051-02601	DATE: 06-09-2026
DISTRICT: UNION	COUNTY: MARSHALL	STATE: WV	DRAWN BY: N. MANO
			SCALE: N/A
			DRAWING NO: WELL LOCATION PLAT 7

Z:\2026 BACKUPS\1-02-26 DJ\EXPAND\RUTH KELLER\RUTH KELLER MSH\WELL PLATS\1005H\FINAL\6-09-26\RUTH KELLER MSH 1005H 6-09-26.DWG
TUESDAY JUNE 09 2026 09:51AM

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

*Highlighted Parcels may be impacted during drilled.

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
H12	BARNES BILL J	10-W66-173
I12	SMITH JAMES CLINTON & SMITH CATHERINE DIANNE	10-W66-172
J12	PARSONS KILAINE L	10-W66-171
K12	PARSONS CAROL L	10-W66-170
L12	AMAZZ FRANZ GRACE	10-W66-169
M12	CLEMENS PAULA JO ORUM	10-W66-168
N12	MILLER ROBERT J & FAITH N	10-W66-167
O12	HOSTUTLER PRESTON E & N L	10-W66-166
P12	SCHULTZ HARLEY	10-W67-5
Q12	MEYER ELIZABETH A	10-W67-4
R12	WILLIAMS MARK R AND CHERYL L	01-RB1J-21
S12	SHAY STEVEN A & SUSAN D	01-RB1J-34
T12	MCNINCH EDWARD F & LOIS G	01-RB1J-35
U12	HUNTER ALVIN O	01-RB1J-35.1
V12	NAMACK LESTER L & DEBRA L	01-RB1J-36
W12	LONG CHAD R & JILL	01-RB1J-33
X12	LONG ERIC PATRICK	01-RB1J-32
Y12	HALL DARLENE K-SELLER, ARMSTRONG P S-BUYER	01-RB1J-37
Z12	HALL DARLENE K	01-RB1J-38
A13	GONOGLA AMBER PIKO & WENSEL JASON L	01-RB1J-39
B13	GONOGLA AMBER PIKO & WENSEL JASON L	01-RB1J-40
C13	GONOGLA AMBER PIKO & WENSEL JASON L	01-RB1J-41
D13	FORDYCE SAMANTHA	01-RB1J-28
E13	FORDYCE SAMANTHA	01-RB1J-27
F13	GUTSHALL DONALD AND LISA	01-RB1J-25.1
G13	GUTSHALL DONALD AND LISA	01-RB1J-25
H13	SIKOLE VINCENT A & BETH A	01-RB1J-42.1
I13	SIKOLE VINCENT A & BETH A	01-RB1J-42
J13	BOARD OF COMM OHIO CO	01-RB1J-86
K13	BOARD OF COMM OHIO CO	01-RB1J-87
L13	WARD B G & K L	01-RB1J-67
M13	STACHURA MICHAEL J	01-RB1J-67.1
N13	GUMP THOMAS E JR	01-RB1J-68
O13	MICHAEL CHRIST FAMILY TRUST	01-RB1J-70
P13	GUMP THOMAS E JR	01-RB1J-71
Q13	GUMP THOMAS E JR	01-RB1J-72
R13	GUMP THOMAS E JR	01-RB1J-74
S13	GUMP THOMAS E JR	01-RB1J-75
T13	VEMURI HOME & GARDEN LLC	01-RE1K-65
U13	PANDELOS ERNIE	01-RE1K-101.1
V13	SCHAUB VIRGINIA M	01-RE1K-101
W13	BRUCE KERRY	01-RE1K-100
X13	SCHAFER EDWARD L JR	01-RE1K-98
Y13	SCHAFER EDWARD L JR & MARY M	01-RE1K-96
Z13	LAND OF OZ	01-RB1-2
A14	CRISWELL JOHN THOMAS	05-RE1R-21
B14	CONNER ROBERT L & L M	05-RE1R-10
C14	HOYT CHRISTOPHER D & HEATHER A	01-RB1-3.1
D14	KOVALICK MICHAEL B & SUSAN L	01-RB2A-3
E14	KOVALICK MICHAEL B & SUSAN L	01-RB2A-2
F14	HIPSON RUTH B	01-RB2A-10
G14	SWAMY SETUNATH A & CHANDRA S	01-RB2A-9
H14	SWAMY SETUNATH A	01-RB2A-8
I14	MATHIEU E DAVID JR & MATHIEU JILL M - TOD	01-RB2A-7
J14	HILL MATHHEW E & MARY E	01-RB2B-95
K14	ZAMBITO ALFONSO J	01-RB1P-214
L14	PURPURA JOSEPH F - GINA S	01-RB1P-211
M14	GROB RUTH ANN	01-RB1P-177
N14	VILLAGE OF BETHLEHEM	01-RB2B-78
O14	COOK DANIEL P & CRYSTAL D	01-RB2-1.19
P14	BOGGS CAMDEN C & ADELINE R	01-RB2-1.5
Q14	HOOPER TIMOTHY S	01-RB2-1.25
R14	LOVVORN TRACY C & JAYNES HEIDI R	01-RB2B-47.1
S14	LOVVORN TRACY C & JAYNES HEIDI R	01-RB2B-47
T14	BURKE PATRICK M & NANCY M	01-RB2B-48
U14	BURKE PATRICK M & NANCY M	01-RB2F-6
V14	FEHR JEAN A	01-RB2F-5
W14	STAUVER DAVID A & D R	01-RB2F-4
X14	SINCAVICH KAREN L	01-RB2F-3
Y14	TIMBERLAKE SCOTT W & CORINNE A	01-RB2-1.16
Z14	LUCAS RICHARD A & BARBARA L	01-RB2-1.17
A15	THALMAN ANDREW R & AMY L	01-RB2-2.9
B15	CHIDIAC BAKHOS	05-RE2-38
C15	POMPEO JOSEPH D	05-RE2-36.2
D15	ARRUDA JARED ROSS	05-RE2-37

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
E15	MENCER KIMBERLY SUE ET AL	05-RE2-50
F15	MENCER KIMBERLY SUE ET AL	05-RE2-50.1
G15	GRAMLICH KATHLEEN & JOHN W JR	05-RE2-42
H15	MCPHERSON JOSEPH GREGORY	05-RE2-44
I15	SCOTT JOHN M & PATRICIA ANN	05-RE2-45
J15	GHAPHERY DAVID A & KIMBERLY	05-RE2-51.2
K15	GHAPHERY DAVID A & KIMBERLY	05-RE2-51.5
L15	HOUCK RICHARD CHARLES MARISA ANN	05-RE2-51.8
M15	IRVIN RICHARD A & CECELIA C	05-RE2-51.3
N15	SMITH PETER L ET UX - TOD	13-1E-33
O15	EDWARDS JOSHUA L & AMANDA M	13-1E-34
P15	STEWART LISA A	13-1F-4
Q15	STEWART LISA A	13-1F-3
R15	BURKE MELISSA A	13-1F-2
S15	YORTY ANTOINETTE M & J BROWNING JASE M	13-1F-1
T15	YORTY ANTOINETTE M & J BROWNING JASE M	13-1F-1.1
U15	SEIDLER DALE JR	13-1-18
V15	MILBERT RICHARD LEE JR ET UX	13-1-18.2
W15	MILBERT RICHARD LEE JR ET UX	13-1-18.1
X15	MCALLISTER WILLIAM P & MCCOMBS SANDRA S	13-1-21
Y15	EBBERT SHARON ET AL	13-1-22
Z15	STATE ROAD COMMISSION	13-1-27
A16	MT OLIVET CEMETERY ASSOC INC	13-1-30
B16	M E CHURCH	13-1-31
C16	OLIVER GREGORY LEE	13-2A-1
D16	GANTZER BRYAN & TAYLORE N	13-2A-4
E16	GIVENS TYLER & HALL MACKENZIE	13-2A-5
F16	KNOX MICHAEL - TOD	13-2A-6.1
G16	LEHRKE JASON J & MARCIE M	13-2A-7.1
H16	SAUS DONNA J & JAMES M	13-2A-8
I16	CLAUSELL DARRYL ETAL	13-1G-44
J16	CARNEY DANIEL P ET UX	13-2A-54
K16	QUINLIN DAVID M ET UX	13-2A-52.1
L16	STATE ROAD COMMISSION	13-2A-9
M16	MORGAN RANDY & GINGER C	13-2A-53
N16	STATE ROAD COMMISSION	13-2A-46
O16	STATE ROAD COMMISSION	13-2A-47
P16	STATE ROAD COMMISSION	13-2A-48
Q16	MOSES AARON G	13-2A-17
R16	STATE ROAD COMMISSION	13-2A-49
S16	STATE ROAD COMMISSION	13-2A-50
T16	ANDLINGER-MORGAN BRENDA	13-2A-17.2
U16	HARRISON RONALD L & CAROL R	13-2C-9
V16	MONARCH DEVELOPMENT LLC	13-2C-10
W16	JONES CLARK A & KIMBERLY J	13-2C-7
X16	RICH JOSEPH A JR	13-2C-8
Y16	RICH JOSEPH A JR ET UX	13-2C-6
Z16	BLASCHAK KEVIN E ET UX	13-2C-4
A17	PERRY JASON T	13-2B-4
B17	PERRY JASON T	13-2C-17.2
C17	BLACKMORE ORVILLE A JR ET UX	13-2B-3
D17	BROWN MARIAH & ALEXANDER	13-2B-46.1
E17	FONNER RUSSELL L	13-2B-47
F17	KENT BRIAN JOSEPH & JENNIFER SUE KLOSS	13-2B-66
G17	KENT BRIAN JOSEPH & JENNIFER SUE KLOSS	13-2B-69
H17	QUIGLEY TODD	13-2B-68
I17	R B REAL ESTATE LLC	13-2B-67
J17	HEIL BRUCE A - TOD	13-2-51
K17	WEST JOSEPH L ET UX	13-2-52
L17	ST MYERS ROBERT C & ROSE ANNA - LIFE	13-2-63.5
M17	PELUCHETTE MAXWELL S	13-2-53.1
N17	HANKET SYDNEY	13-2-55
O17	FINLEY MICHAEL & CASSANDRA	13-2-54.1
P17	ST MYERS ROBERT C ET UX	13-2-63.3
Q17	GARVIN JOHN & HOLLY	13-4-14
R17	DIEHL CHARLES R & CELESTE	13-4A-39
S17	NO INFO	13-4A-40.1
T17	GRACEY JONATHAN B & JANE R	13-4A-40
U17	GRACEY JONATHAN B & JANE R	13-4A-41
V17	GLOVER JAMES A ET UX	13-4A-42
W17	COFFIELD AUSTIN	13-4A-43
X17	HOWELL JESSICA ANDERSON	13-4A-44
Y17	CLYBURN MARY ELLEN	13-4A-45
Z17	JASKO AARON & JULIE	13-4A-10

09/18/2026

REVISIONS:

COMPANY: expand

OPERATOR'S WELL #:	RUTH KELLER MSH 1005H	API #: 47-051-02601	DATE: 06-09-2026
DISTRICT: UNION	COUNTY: MARSHALL	STATE: WV	DRAWN BY: N. MANO
			SCALE: N/A
			DRAWING NO: WELL LOCATION PLAT 8

Z:\2026 BACKUPS\1-02-26 DJ\EXPAND\RUTH KELLER\RUTH KELLER MSH\WELL PLATS\1005H\FINAL\6-09-26\RUTH KELLER MSH 1005H 6-09-26.DWG
TUESDAY JUNE 09 2026 09:51AM

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

	ADJOINING OWNERS TABLE	
TRACT	SURFACE OWNER	TAX PARCEL
A18	CROLLEY RICHARD M EST	13-4A-9
B18	SCHULTZ JANICE E	13-4A-5
C18	BLACK LISA MARIE	13-2-58.1
D18	GOCKSTETTER CHRISTOPHER A & AMY L	13-4-2
E18	BONAR JENNIFER L & JOSHUA	13-4-2.2
F18	BONAR JENNIFER L & JOSHUA D	13-4-2.1
G18	LOPEZ PROPERTIES LLC	13-4-4
H18	LOPEZ PROPERTIES LLC	13-4-7
I18	LOPEZ ABIGAIL L	13-4-9.1
J18	LOPEZ ABIGAIL L	13-4-9
K18	LOPEZ ABIGAIL L	13-4-11.2
L18	TOWN & COUNTRY ANIMAL HOSP INC	13-4-11
M18	ROTH JAMES E SR & DAWN L - TOD	13-4-13
N18	ROTH JAMES E JR	13-4-13.4
O18	MATTUCI MARK	13-4-15.3
P18	ROTH ERIN K & MICHAEL A - TOD	13-4-32.6
Q18	ESCUE JAMES W	13-4-32.4
R18	LOY CURTIS R & TIFFANY R	13-4-32.2
S18	LOY CURTIS R & TIFFANY R	13-4-32.1
T18	WALLACE JAY K ET UX	13-4-32.7
U18	WALLACE JAY K ET UX	13-4-32.8
V18	GUMP LOUIS M & ROBIN A	13-4-32.5
W18	GUMP LOUIS M & ROBIN A	13-4-32.3
X18	GUMP LOUIS M & ROBIN A	13-4-33
Y18	FORESTER RICHARD E ET UX	13-4D-7
Z18	WHITE GARY W ET UX	13-4D-6
A19	NORTHCRAFT CURTIS & ASHLEIGH	13-4D-5
B19	NORTHCRAFT CURTIS & ASHLEIGH	13-4D-4
C19	SMITH WENDI LYNN ET AL	13-4D-3
D19	SMITH WENDI LYNN ET AL	13-4D-1
E19	LILLEY ESTATES LLC	13-4-39.9
F19	HODGEKISS MAURICE J - LIFE	13-4-39
G19	SMITH JAMES DAVID - TOD	13-4-39.11
H19	OHIO COUNTY COAL RESOURCES INC	13-4-37.1
I19	FOSTER AARON	13-4-40
J19	TOMER LISA ANN - TOD	13-4-42
K19	BRAUTIGAN FAMILY IRREVOCABLE TRUST	13-4-44
L19	BOARD OF EDUCATION	13-7-17
M19	ALLEN JOHN I	13-7-3.2
N19	CHURCH JESUS CH LATTER DAY STS	13-7-3.1
O19	HARTLEY BRADFORD W & NANNETTA	13-7-7
P19	BUTCH'S CORNER INC	13-7-9.2
Q19	BUTCH'S CORNER INC	13-7-9.1
R19	GARVIN VIRGINIA R	13-7-5
S19	MILLARD SCOTT M	13-7-4.1
T19	HUBBARD BRADLEY DANIEL	13-7-4
U19	GORDER JAMES L & CONNIE L	13-7-11
V19	M E CHURCH	13-7-12
W19	PLEASANT HILL ME CHURCH TR	13-7-13.1
X19	BENWOOD ESTATES LLC	13-7-13
Y19	ANTIOCH CEMETERY	13-7A-11
Z19	ARCHEY RODD A	13-7A-12
A20	SHILLING KATHY S	13-7A-14
B20	GAMBLE REBECCA C EST	13-7A-41
C20	RAMSER FAMILY IRREVOCABLE TR - RIGGS MELISSA	13-7A-34
D20	ARCHIBOLD JAMES W ET UX	13-7A-33
E20	KAHLBAUGH DAVID W & DELORES - TOD	13-7-34
F20	GAMBLE AMY JEAN	13-7-35
G20	GAMBLE REBECCA EST	13-7-36
H20	GAMBLE REBECCA C EST	13-7-43
I20	ALLEN RICHARD C ET UX	13-7-52
J20	VARGO CINDY L ET AL	13-10-3
K20	MARSHALL LAND LLC	13-10-2
L20	MOOSMAN MATTHEW G	13-10A-14
M20	WARD DEREK J	13-10A-13
N20	HUNTER WILLIAM D & MARLENE- TOD	13-10A-12
O20	HILL PATRICIA J	13-10A-11
P20	HILL PATRICIA J	13-10A-10
Q20	HILL PATRICIA J	13-10A-9
R20	HALL JUSTIN & MADELYN HOPKINS	13-10A-8
S20	HULL GAYLERD E	13-10A-7
T20	BRANNAN BRICIE GREER	13-10A-6
U20	MCCLURE DEVAN & LINDSEY CAIN	13-10A-5
V20	FECAT FAMILY TRUST	13-10A-4
W20	BRAUTIGAN RANDY & KAYLA	13-6-50.7
X20	KELLER WILLIAM J - TOD	13-6-50.2

*Highlighted Parcels may be impacted during drilled.

09/18/2026

REVISIONS:	COMPANY: eXpand		
OPERATOR'S WELL #:	RUTH KELLER MSH 1005H	API #: 47-051-02601	DATE: 06-09-2026
DISTRICT: UNION	COUNTY: MARSHALL	STATE: WV	DRAWN BY: N. MANO SCALE: N/A DRAWING NO: WELL LOCATION PLAT 9

Z:\2026 BACKUPS\1-02-26 DJ\EXPAND\RUTH KELLER\RUTH KELLER MSH\WELL PLATS\1005H\FINAL\6-09-26\RUTH KELLER MSH 1005H 6-09-26.DWG
TUESDAY JUNE 09 2026 09:52AM

WW-6A1
(5/13)

Operator's Well No. RUTH KELLER MSH 1005H

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:
Its: GAVIN NADEAU, SR. STAFF LANDMAN

RECEIVED
Office of Oil and Gas
AUG 13 2026
WV Department of
Environmental Protection

09/18/2026

EXHIBIT "A"
Ruth Keller MSH 1005H
Marshall County, West Virginia

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

#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG	% INTEREST NOT OWNED BY EXPAND APPALACHIA LLC
1	13-6-50	Ruth Ann Keller, married, dealing in her sole and separate interest	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	683/433 33/110 57/407	0.00%
		David J. Cook, married	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	684/547 33/110 57/407	
2	13-7-51	Michael D. Young and Carol L. Young, a/k/a Carol Young, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	717/542 33/110 57/407	0.00%
3	13-7-50	Michael D. Young and Carol L. Young, a/k/a Carol Young, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	717/542 33/110 57/407	0.00%
4	13-7-49	Jordan Christopher Santonas and Claire Freeland Santonas, husband and wife	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1198/412 57/407	0.00%
5	13-7-54	Michele Diane Jackson and David L. Jackson, wife and husband	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1176/736 57/407	0.00%
6	13-7-40	Shelley L. Tuskey and Robert K. Tuskey, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	722/141 33/110 57/407	0.00%
7	13-7-38	Charles W. Caldwell, a married man dealing in his sole and separate properties	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	945/58 48/263 57/407	0.00%
		Richard J. Caldwell, a married man dealing in his sole and separate properties	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	945/63 48/263 57/407	
		Christian A. Caldwell, a married man dealing in his sole and separate property	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	945/68 48/263 57/407	
8	13-7-37	Charles W. Caldwell, a married man dealing in his sole and separate properties	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	945/58 48/263 57/407	0.00%
		Richard J. Caldwell, a married man dealing in his sole and separate properties	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	945/63 48/263 57/407	
		Christian A. Caldwell, a married man dealing in his sole and separate property	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	945/68 48/263 57/407	
9	13-7-10	Royalty Owners (Subject to Unitization)	N/A	N/A	N/A	100.00%
10	13-7-37.1	David W. Kalbaugh and Delores J. Kalbaugh, husband and wife	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	935/103 48/263 57/407	0.00%
11	13-7-9	Royalty Owners (Subject to Unitization)	N/A	N/A	N/A	0.00%
12	13-7-6	Royalty Owners (Subject to Unitization)	N/A	N/A	N/A	0.00%
13	13-7-8	Christopher Crim and Billy Jo Crim, husband and wife	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1061/843 48/263 57/407	0.00%
14	13-7-3	Richard E. Brautigan and Anette L. Brautigan, acting as Trustees for the Richard E. and Anette L. Brautigan Family Irrevocable Trust, dated December 16, 2004	TH Exploration, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1140/832 51/595 57/407	0.00%
15	13-4-46	Norma J. Roberts, Trustee of the Norma Roberts Family Trust, Dated March 22, 2013	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	933/236 48/263 57/407	0.00%
16	13-4-45	Patrick Rose, single	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1154/542 54/407	0.00%
17	13-4-39.1	Joan T. Kurz, widow	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1155/432 57/407	0.00%
18	13-4-39.6	Joan T. Kurz, widow	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1155/432 57/407	0.00%
19	13-4-39.5	Joan T. Kurz, widow	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1155/432 57/407	0.00%
20	13-4-39.8	Caroline L. Taylor, a widow	Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1271/392	0.00%
21	13-4-39.16	Royalty Owners (Subject to Unitization)	N/A	N/A	N/A	50.00%
		Brandon P. Frick, a single man	Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1271/319	
22	13-4-39.7	Royalty Owners (Subject to Unitization)	N/A	N/A	N/A	50.00%
		Brandon P. Frick, a single man	Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1271/319	
23	13-4-39.12	Expand Appalachia LLC (Company Owned Minerals)	N/A	N/A	N/A	0.00%
24	13-4-39.18	Royalty Owners (Subject to Unitization)	N/A	N/A	N/A	50.00%
		Maurice J. Hodgekiss	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	963/42 57/407	
25	13-4-39.17	Royalty Owners (Subject to Unitization)	N/A	N/A	N/A	50.00%
		Maurice J. Hodgekiss	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	963/42 57/407	
26	13-4-38	Five Star 2022, by Robert J. Wittman, Owner	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1177/605 57/407	0.00%
27	13-4-13.5	Michael W. Hill and Jennifer S. Hill, husband and wife	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	975/525 48/263 57/407	0.00%
28	13-4-13.6	Jason E. Roth, and Tracy L. Roth, husband and wife	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1156/378 57/407	0.00%
29	13-4-12	Town & Country Animal Hospital, Inc.	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	947/622 48/263 54/407	0.00%
30	13-4-12.2	James E. Radcliffe and Judith W. Radcliffe, his wife	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	955/460 48/263 57/407	0.00%
31	13-4-12.1	James E. Radcliffe and Judith W. Radcliffe, his wife	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	940/70 48/263 57/407	0.00%
32	13-4-8	Town & Country Animal Hospital, Inc.	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	947/622 48/263 54/407	0.00%
33	13-4-59	Conrad C. Blankenship and Rebecca S. Blankenship, a married couple	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1156/624 57/407	0.00%
34	13-4-59.2	Jerry Berisford and Rhea South Berisford, his wife	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1159/514 57/407	0.00%
35	13-4-3	Mark L. Leach, a widower	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1242/479 57/407	0.00%
36	13-4-1	Janet S. Schultz and Charles L. Schultz, a married couple	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1156/299 57/407	0.00%
37	13-4-1.2	Pamela J. Shaw, divorced	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1160/352 57/407	0.00%
38	13-4-1.1	Pamela J. Shaw, divorced	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1160/352 57/407	0.00%
39	RT 88	West Virginia Department of Transportation, Division of Highways	Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1275/211	0.00%
40	13-2-61	Royalty Owners (Subject to Unitization)	N/A	N/A	N/A	100.00%
41	13-2-60	Frank Hainer Stoy, III, a married man dealing in his sole and separate property	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1233/392 57/407	0.00%
42	13-2-59	Paul H. Parsons and Helen R. Parsons, husband and wife	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1008/175 45/381 57/407	0.00%
43	13-2-58.2	Charles E. Kale and Erin J. Kale, husband and wife	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1059/86 48/263 57/407	0.00%
44	13-2-58	Christopher D. Boles and Stacie L. Boles, husband and wife	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1059/86 45/381 57/407	0.00%
45	13-2-62	Golden Eagle Resources II, LLC	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1183/702 57/407	0.00%
46	13-2-57.5	Michael A. Finley and Cassandra M. Finley, husband and wife	Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1246/654	0.00%
47	13-2-57.4	Royalty Owners (Subject to Unitization)	N/A	N/A	N/A	100.00%
48	13-2-56	Douglas Raymond Somerville and Ashley Elizabeth Somerville, husband and wife	Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1278/631	0.00%
49	13-2-54	Marvin Elwood Wolfe and Peggy Louise Wolfe, husband and wife	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	964/330 45/381 57/407	0.00%
50	13-2-53	Royalty Owners (Subject to Unitization)	N/A	N/A	N/A	50.00%
		Golden Eagle Resources II, LLC	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1203/578 57/407	50.00%
51	13-1-80.1	Ridgetop Ten LLC	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1157/568 57/407	0.00%
52	13-1-80	Merimar & Koontz Co., d/b/a A-1 Auto Parts	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1034/264 48/263 57/407	0.00%
53	13-2-44.1	Vici L. Adkins, single	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	945/165 48/263 57/407	0.00%
54	13-2-44.9	Vici L. Adkins, single	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	945/165 48/263 57/407	0.00%
55	13-2-44.8	Mary Ann Blatnar, widow	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	946/240 48/263 57/407	0.00%
56	13-1-79	Gail Wexler Lilly, married	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1153/38 57/407	0.00%
		Elizabeth Ann Pfeiffer, married	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1153/31 57/407	
57	13-2B-1	Orville A. Blackmore, Jr. and Jeanne L. Blackmore, husband and wife	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	950/545 45/381 57/407	0.00%
58	13-2B-2	Orville A. Blackmore, Jr. and Jeanne L. Blackmore, husband and wife	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	950/545 45/381 57/407	0.00%
59	13-2C-17	Joshua Fox and Kristi Fox, husband and wife	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	946/221 45/381 57/407	0.00%
60	13-2C-17.1	Arthur William East and Polly A. East, husband and wife	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	950/498 45/381 57/407	0.00%
61	13-2C-16	Arthur William East and Polly A. East, husband and wife	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	950/498 45/381 57/407	0.00%
62	13-2C-15	Kelly L. Rogerson, divorced	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	945/419 45/381 54/407	0.00%
63	13-2C-14	Royalty Owners (Subject to Unitization)	N/A	N/A	N/A	100.00%
64	13-2C-13	Royalty Owners (Subject to Unitization)	N/A	N/A	N/A	100.00%
65	13-2C-12	Jemeane A. Miller, a single woman	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	942/214 45/381 57/407	0.00%
66	13-2C-11	Royalty Owners (Subject to Unitization)	N/A	N/A	N/A	100.00%
67	13-2A-51	West Virginia Department of Transportation, Division of Highways	Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1275/217	0.00%
68	13-2A-16	Patrick R. Gantzer and Kelly B. Gantzer, husband and wife	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1239/538 57/407	0.00%

RECEIVED
Office of Oil and Gas
AUG 13 2026
WV Department of
Environmental Protection

09/18/2026

EXHIBIT "A"
Ruth Keller MSH 1005H
Marshall County, West Virginia

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

#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG	% INTEREST NOT OWNED BY EXPAND APPALACHIA LLC
69	13-2A-15	James R. Fonner and Cheryl L. Fonner, husband and wife	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	949/421 45/381 57/407	0.00%
70	13-2A-14	David S. Wallace Michael L. Wallace Jeffrey A. Wallace	Expand Appalachia LLC Expand Appalachia LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8 At least 1/8th per WV code 22-6-8 At least 1/8th per WV code 22-6-8	1253/614 1253/596 1254/137	
71	13-2A-13	West Virginia Department of Transportation, Division of Highways	Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1275/217	0.00%
72	13-2A-12	Royalty Owners (Subject to Unitization)	N/A	N/A	N/A	100.00%
73	13-2A-11	Royalty Owners (Subject to Unitization)	N/A	N/A	N/A	100.00%
74	13-2A-10	Jaysen R. Sassen, a single man	Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1262/584	0.00%
75	13-1G-36	John K. Marolon and Christina F. Marolon, husband and wife	Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1279/92	0.00%
76	13-1G-41	Sharon R. Thomas, f/k/a Sharon R. Arrit, individually, and d/b/a Acquisition, LLC	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1167/457 57/407	0.00%
77	13-1-33.3	Sharon R. Thomas, f/k/a Sharon R. Arrit, individually, and d/b/a Acquisition, LLC	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1167/457 57/407	0.00%
78	13-1-33.2	The Estate of Dwarka N. Vemuri, by Darryl Cassell as Executor	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1222/558 57/407	0.00%
79	13-1-33	Sharon R. Thomas, f/k/a Sharon R. Arrit, individually, and d/b/a Acquisition, LLC	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1167/457 57/407	0.00%
80	13-1-32	Mount Olivet Cemetery Association, Inc.	Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1271/275	0.00%
81	13-1F-5	Lisa A. Stewart, a married woman dealing in her sole and separate property	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1242/524 57/407	0.00%
82	13-1E-35	Royalty Owners (Subject to Unitization)	N/A	N/A	N/A	100.00%
83	13-1E-31	William P. Knight and Janet M. Knight, Trustees of the William P. Knight and Janet M. Knight Revocable Living Trust	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	979/75 48/263 57/407	0.00%
84	13-1E-30	Andrea I. Sullivan	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1242/201 57/407	0.00%
85	13-1E-32	Arthur Nebergall, III, single	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	961/608 48/263 57/407	0.00%
86	13-1E-17	Royalty Owners (Subject to Contractual)	N/A	N/A	1267/326	22.22%
		James C. Yurko, a married man dealing in his sole and separate property	Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1251/1	
		Paul L. Yurko, a married man dealing in his sole and separate property	Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1251/286	
		Curtis P. Gantz, widower	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1233/276 57/407	
		Tori Jo Calvert and Brian Calvert, wife and husband	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1233/280 57/407	
87	05-RE2-41	Royalty Owners (Subject to Unitization)	N/A	N/A	N/A	100.00%
88	05-RE2-40	Volusia Ventures, LLC	Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1104/618	0.00%
89	05-RE2-39	Volusia Ventures, LLC	Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1104/618	0.00%
90	05-RE2-36	Royalty Owners (Subject to Unitization)	N/A	N/A	N/A	81.67%
		Wheeling Hospital, Inc.	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1072/505 1094/490	
		Roman Catholic Diocese of Wheeling-Charleston, Mark E. Brennan, Bishop	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1071/151 1094/490	
		Linda Kay West Ruscher	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1074/343 1094/490	
		John Thomas West	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1085/156 1094/490	
		McFarland Lutheran Church	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1085/518 1094/490	
		Charles William West	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1090/759 1094/490	
91	05-RE2-34.3	Royalty Owners (Subject to Unitization)	N/A	N/A	N/A	100.00%
92	05-RE2-34.1	Royalty Owners (Subject to Unitization)	N/A	N/A	N/A	100.00%
93	05-RE2-36	Joseph D. Pompeo, single man	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1052/491 1094/490	0.00%
94	05-RE2-35.1	Melissa Dawn Carney	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1062/521 1094/490	0.00%
95	05-RE2-35	Melissa Dawn Carney	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1062/521 1094/490	0.00%
96	05-RE2-34	Bobbie Jo McDaniel, a married woman dealing in her sole and separate property	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1096/647 1094/490	0.00%
		Thomas R. Ullom, a single man	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1096/656 1094/490	
97	01-RB2-1.7	Xilinone Resources IV LLC	Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1106/496	0.00%
98	01-RB2-1.3	Xilinone Resources IV LLC	Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1106/496	0.00%
99	05-RE2-32	Expand Appalachia LLC (Company Owned Minerals)	N/A	N/A	1110/780	0.00%
100	01-RB2-1.4	Royalty Owners (Subject to Unitization)	N/A	N/A	N/A	100.00%
101	01-RB1A-1.1	Royalty Owners (Subject to Unitization)	N/A	N/A	N/A	100.00%
102	01-RB2A-2.2	Royalty Owners (Subject to Unitization)	N/A	N/A	N/A	100.00%
103	01-RB2A-1	Royalty Owners (Subject to Unitization)	N/A	N/A	N/A	100.00%
104	05-RE1R-1	Vemuri Home and Garden, LLC	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1066/677 1094/490	0.00%
105	05-RE1R-11	Vemuri Home and Garden, LLC	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1066/677 1094/490	0.00%
106	05-RE1K-154	Thomas W. Carpenter	Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1109/129	0.00%
107	01-RB1-4	HJ LLC	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1072/585 1094/490	0.00%
108	05-RE1K-104	Lisa A. Stupel	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1095/94 1094/490	0.00%
109	05-RE1K-104.1	Lisa A. Stupel	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1095/94 1094/490	0.00%
110	05-RE1K-105	HJ LLC	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1072/585 1094/490	0.00%
111	05-RE1K-102	Royalty Owners (Subject to Unitization)	N/A	N/A	N/A	100.00%
112	05-RE1K-63	Royalty Owners (Subject to Unitization)	N/A	N/A	N/A	100.00%
113	1-470	Catherine S. Smith, a single woman	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1080/689 1094/490	0.00%
		Randall E. Smith	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1080/307 1094/490	
		Gerald M. Miklas and Joyce A. Miklas	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1084/645 1094/490	
		Randall E. Smith	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1094/501 1094/490	
		Catherine S. Smith, a single woman	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1080/683 1094/490	
114	01-RB1-2.4	Randall E. Smith	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1080/301 1094/490	0.00%
		Catherine S. Smith	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1080/683 1094/490	
115	01-RB1-2.3	Randall E. Smith	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1080/307 1094/490	0.00%
		Catherine S. Smith	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1080/689 1094/490	
116	10-W66-167.1	William S. McInnis	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1084/737 1094/490	0.00%
117	10-W66-167.2	Walker P. Holloway, Jr	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1090/791 1094/490	0.00%
118	10-W66-156.1	Walker P. Holloway, Jr	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1090/791 1094/490	0.00%
119	10-W59-482	Wheeling Newspapers, Inc.	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1096/683 1094/490	0.00%
83	13-4-39.1	Royalty Owners (Subject to Unitization) Maurice J. Hodgekiss	N/A SWN Production Company, LLC Expand Appalachia LLC	N/A At least 1/8th per WV code 22-6-8	N/A 963/42 57/407	50.00%
118	13-4-39.14	Royalty Owners (Subject to Unitization)	N/A	N/A	N/A	100.00%
77	13-4-53.2	Royalty Owners (Subject to Unitization) Maurice J. Hodgekiss	N/A SWN Production Company, LLC Expand Appalachia LLC	N/A At least 1/8th per WV code 22-6-8	N/A 963/42 57/407	50.00%
105	13-2-46	Roman Catholic Diocese of Wheeling-Charleston, his successors and assigns	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1225/289 57/407	0.00%
85	13-2A-13.1	Royalty Owners (Subject to Unitization)	N/A	N/A	N/A	100.00%
84	13-1F-5	Lisa A. Stewart, a married woman dealing in her sole and separate property	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1242/524 57/407	0.00%
86	13-1F-6	Lisa A. Stewart, a married woman dealing in her sole and separate property	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1242/524 57/407	0.00%
84	05-RE1-93.1	Royalty Owners (Subject to Unitization) Wheeling Hospital, Inc.	N/A SWN Production Company, LLC Expand Appalachia LLC	N/A At least 1/8th per WV code 22-6-8	N/A 1072/505 57/407	81.67%
		Roman Catholic Diocese of Wheeling-Charleston, Mark E. Brennan, Bishop	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1071/151 57/407	
		Linda Kay West Ruscher	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1074/343 57/407	
		John Thomas West	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1085/156 57/407	
		McFarland Lutheran Church	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1085/518 57/407	
		Charles William West	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1090/759 57/407	
59	05-RE1R-12	Vemuri Home and Garden, LLC	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1066/677 57/407	0.00%
59	05-RE1K-62	Royalty Owners (Subject to Unitization)	N/A	N/A	N/A	100.00%
89	05-RE1K-63	Royalty Owners (Subject to Unitization)	N/A	N/A	N/A	100.00%
212	10-W66-167.3	Mukul A. Baker and Jamal M. Baker, husband and wife	Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1097/131	0.00%
213	01-RB1-74	Thomas E. Gapp, Jr., a married man dealing in his sole and separate property	Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1095/202	0.00%
214	01-RB1-75	Thomas E. Gapp, Jr., a married man dealing in his sole and separate property	Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1095/202	0.00%
211	05-RE1K-45	Vemuri Home and Garden, LLC	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1066/677 1094/490	0.00%
215	05-RE1K-153.1	Royalty Owners (Subject to Unitization)	N/A	N/A	N/A	100.00%
214	01-RB1K-63	Royalty Owners (Subject to Unitization)	N/A	N/A	N/A	100.00%
224	01-RB1-9.1	Royalty Owners (Subject to Unitization)	N/A	N/A	N/A	100.00%
111	05-RE2-38	Rosario Minerals, LLC	Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	949/548	0.00%
215	05-RE2-35.2	Joseph D. Pompeo, single man	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1052/491 1094/490	0.00%
213	05-RE2-42	Karen Sue Angell, f/k/a Karen Sue Orendick	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1066/692 1094/490	0.00%
		Nancy K. Orendick Sparrow	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1066/697 1094/490	
		John W. Orendick, Jr.	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1066/698 1094/490	
		Seventy Orendick	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1066/686 1094/490	
		Ind. Orendick	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1066/680 1094/490	
216	13-1F-4	Lisa A. Stewart, a married woman dealing in her sole and separate property	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1242/524 57/407	0.00%
M16	13-2A-53	Randy Morgan and Ginger C. Morgan, husband and wife	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1245/359 57/407	0.00%
104	13-2C-9	Ronald C. Harrison and Carol R. Harrison, husband and wife	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	949/54 45/381 57/407	0.00%
V10	13-2C-10	Royalty Owners (Subject to Unitization)	N/A	N/A	N/A	100.00%

RECEIVED
Office of Oil and Gas
AUG 13 2026
WV Department of
Environmental Protection

EXHIBIT "A"
Ruth Keller MSH 1005H
Marshall County, West Virginia

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

#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG	% INTEREST NOT OWNED BY EXPAND APPALACHIA LLC
N16	13-2C-8	Joseph A. Rich, Sr. and Sharon K. Rich, husband and wife	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	940/674 45/381 57/407	0.00%
C17	13-2B-3	Orville A. Blackmore, Jr. and Joanne L. Blackmore, husband and wife	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	950/545 45/381 57/407	0.00%
E17	13-2B-47	Russell L. Fenner, a single man	Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1272/671	0.00%
L17	13-2-63.5	Robert C. St. Myers and Rose A.D. Myers, husband and wife	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	926/113 45/381 57/407	0.00%
N17	13-2-55	Marvin Elwood Wolfe and Peggy Louise Wolfe, husband and wife	American Petroleum Partners Operating, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	964/530 45/381 57/407	0.00%
D18	13-4-2	Christopher A. Cookenwrer and Amy L. Cookenwrer, husband and wife	SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1230/557 57/407	0.00%
F19	13-4-39	Royalty Owners (Subject to Quitclaim): Maxine J. Hodgkins	N/A SWN Production Company, LLC Expand Appalachia LLC	N/A At least 1/8th per WV code 22-6-8	N/A 963/42 57/407	50.00%
G19	13-4-38.11	Royalty Owners (Subject to Quitclaim)	N/A	N/A	N/A	100%
K19	13-4-44	Richard F. Brautigan and Anette L. Brautigan, acting as Trustees for the Richard E. and Anette L. Brautigan Family Irrevocable Trust, dated December 10, 2004	TH Exploration, LLC SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	1140/633 51/797 57/407	0.00%
I20	13-5-12	Richard C. Allen and Lynn M. Allen, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	At least 1/8th per WV code 22-6-8	750/393 33/119 57/407	0.00%

*Co-tenancy still active - 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-tenancies will be secured pursuant to the Co-Tenancy Modernization and Majority Protection Act.
*Potentially Impacted Parcels - Parcels that may be impacted during drilling.
*Horizontal well user utilization - Subject to application filing with the West Virginia Oil and Gas Commission.

END OF EXHIBIT "A"

RECEIVED
Office of Oil and Gas
AUG 13 2026
WV Department of
Environmental Protection

09/18/2026

expand

June 1, 2026

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

RE: Expand's proposed New Well: Ruth Keller MSH 1005H in Marshall County, West Virginia, Drilling under Grandview Road, Benwood Road, Boggs Run Road, Marshall Co Rd 88/25, Allendale Road, Ellen Ave, Wel-Star Lane, S Ketler Ave, Carl Street, McKinley Ave, Lower Incline Road, McCready Ave, Euclid Ave, and Wetzel Street.

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 Grandview Road, Benwood Road, Boggs Run Road, Marshall Co Rd 88/25, Allendale Road, Ellen Ave, Wel-Star Lane, S Ketler Ave, Carl Street, McKinley Ave, Lower Incline Road, McCready Ave, Euclid Ave, and Wetzel Street. be advised that Expand has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Respectfully,

Expand Operating LLC

Gavin Nadeau
Sr. Staff Landman

RECEIVED
Office of Oil and Gas
JUN 1 3 2026
WV Department of
Environmental Protection

WW-PN
(11-18-2015)

Horizontal Natural Gas Well Work Permit
Application Notice By Publication

Notice is hereby given:
Pursuant to West Virginia Code 22-6A-10(e) prior to filing an application for a permit for a horizontal well the applicant shall publish in the county in which the well is located or is proposed to be located a Class II legal advertisement.

Paper: Moundsvilel Echo

Public Notice Date: May 28, 2026 & June 4, 2026

The following applicant intends to apply for a horizontal natural well work permit which disturbs three acres or more of surface excluding pipelines, gathering lines and roads **or** utilizes more than two hundred ten thousand gallons of water in any thirty day period.

Applicant: Expand Operating LLC **Well Number:** Ruth Keller MSH 1005H

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

Business Conducted: Natural gas production.

Location –

State: West Virginia County: Marshall
District: Union Quadrangle: Moundsville
UTM Coordinate NAD83 Northing: 4,426,210
UTM coordinate NAD83 Easting: 525,978
Watershed: Short Creek Ohio River

Coordinate Conversion:
To convert the coordinates above into longitude and latitude, visit: http://tagis.dep.wv.gov/convert/llutm_conus.php

Electronic notification:
To receive an email when applications have been received or issued by the Office of Oil and Gas, visit http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx to sign up.

Reviewing Applications:
Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE Charleston, WV 25304 (304-926-0450). Full copies or scans of the proposed permit application will cost $15, whether mailed or obtained at DEP headquarters. Copies may be requested by calling the office or by sending an email to DEP.comments@wv.gov.

Submitting Comments:
Comments may be submitted online at https://apps.dep.wv.gov/oog/comments/comments.cfm, or by letter to Permit Review, Office of Oil and Gas, 601 57th Street, SE Charleston, WV 25304. Please reference the county, well number, and operator when using this option.

Regardless of format for comment submissions, they must be received no later than thirty days after the permit application is received by the Office of Oil and Gas.

For information related to horizontal drilling visit: www.dep.wv.gov/oil-and-gas/pages/default.aspx

47-051-02601

WW-6AC
(1/12)

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

Date of Notice Certification: 7/12

API No. 47- 051 -
Operator's Well No. Ruth Keller MSH 1005H
Well Pad Name: Ruth Keller MSH

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

State:	West Virginia	UTM NAD 83 Easting:	525,978.395
County:	051-Marshall	Northing:	4,426,209.760
District:	Union	Public Road Access:	Glen Dale Heights Road
Quadrangle:	Moundsville	Generally used farm name:	Ruth Keller MSH
Watershed:	Short Creek Ohio River		

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.

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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

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 14 day of May 2026.

Notary Public

My Commission Expires 6/23/2029

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

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(9-13)

API NO. 47- 051 -
OPERATOR WELL NO. Ruth Keller MSH 1005H
Well Pad Name: Ruth Keller MSH

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

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

Date of Notice: 8/12 **Date Permit Application Filed:** 8/12

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: David Cook
Address: 1456 Sunset Lane
Glen Dale WV 26038
Name: Andrea M. Burke
Address: 305 Roberts Ave
Wheeling WV 26003

☐ 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: Marshall Land LLC
Address: PO Box 261
Julian WV 25529

☐ COAL OPERATOR
Name: _____
Address: _____

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

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

*Please attach additional forms if necessary

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(9-13)

API NO. 47- 051 -
OPERATOR WELL NO. Ruth Keller MSH 1005H
Well Pad Name: Ruth Keller MSH

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

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

Date of Notice: 8/12 **Date Permit Application Filed:** 8/12

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: Brian J. Keller
Address: 4255 Glen Dale Heights
Glen Dale WV 26038
Name: Suzanne K. Cook
Address: 296 North Balph Ave
Pittsburgh PA 15202

☐ 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: _____
Address: _____

☐ COAL OPERATOR
Name: _____
Address: _____

☐ SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: _____
Address: _____

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

*Please attach additional forms if necessary

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(9-13)

API NO. 47- 051 -
OPERATOR WELL NO. Ruth Keller MSH 1005H
Well Pad Name: Ruth Keller MSH

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

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

Date of Notice: 8/12 **Date Permit Application Filed:** 8/12

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: Steven M. Cook
Address: 4090 Glen Dale Heights
Glen Dale WV 26038
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: _____
Address: _____

☐ COAL OPERATOR
Name: _____
Address: _____

☐ SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: _____
Address: _____

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

*Please attach additional forms if necessary

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(8-13)

API NO. 47- 051 -
OPERATOR WELL NO. Ruth Keller MSH 1005H
Well Pad Name: Ruth Keller MSH

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Received
Office of Oil and Gas
AUG 13 2026
WV Department of
Environmental Protection

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. **NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

09/18/2026

WW-6A
(8-13)

API NO. 47- 051 -
OPERATOR WELL NO. Ruth Keller MSH 1005H
Well Pad Name: Ruth Keller MSH

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

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(8-13)

47-051-02601

API NO. 47- 051 -
OPERATOR WELL NO. Ruth Keller MSH 1005H
Well Pad Name: Ruth Keller MSH

Notice is hereby given by:

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

Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
Facsimile: 304-884-1690

Oil and Gas Privacy Notice:

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

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

Subscribed and sworn before me this 14 day of May, 2026.

Notary Public

My Commission Expires 6/23/2029

RECEIVED
Office of Oil and Gas
AUG 13 2026
WV Department of
Environmental Protection

09/18/2026

47-051-02601

SHORT_PARCEL_ID	OWNER	OWNER_ADDRESS	OWNER_CITY	OWNER_ZIP	OWNER_STATE	OWNER_COUNTY
13-6-50	KELLER BRIAN J & COOK DAVID J & ALICE M - TOD	549 SUNSET LN, GLEN DALE, WV 26038	GLEN DALE	26038	WV	MARSHALL
13-11-27	MULDREW PATRICIA A - TOD	259 SUNSET LN GLEN DALE, WV 26038	GLEN DALE	26039	WV	MARSHALL

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WV Department of
Environmental Protection

47-051-02601

WW-6A3
(1/12)

Operator Well No. Ruth Keller MSH

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

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

Date of Notice: 4/29/26 **Date of Planned Entry:** 5/6/26

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

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

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

Notice is hereby provided to:

☒ SURFACE OWNER(s)
Name: David Cook
Address: 1456 Sunset Lane
Glen Dale WV 26038
Name:
Address:
Name:
Address:

☒ COAL OWNER OR LESSEE
Name: Marshall Land LLC
Address: PO Box 261
Julian WV 25529

☒ MINERAL OWNER(s)
Name: David and Alice Cook
Address: 1456 Sunset Lane
Glen Dale WV 26038

*please attach additional forms if necessary

RECEIVED
Office of Oil and Gas
AUG 13 2026
WV Department of
Environmental Protection

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

State:	West Virginia	Approx. Latitude & Longitude:	39.986010, -80.697140
County:	Marshall	Public Road Access:	Glen Dale Heights Road
District:	Union	Watershed:	Upper Ohio South
Quadrangle:	Moundsville	Generally used farm name:	Ruth Keller MSH

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

Notice is hereby given by:

Well Operator:	SWN PRODUCTION COMPANY, LLC	Address:	1300 Fort Pierpont Dr., Suite 201
Telephone:	304-884-1610		Morgantown, WV 26508
Email:	Brittany.Woody@expandenergy.com	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.

09/18/2026

47-051-02601

WW-6A3
(1/12)

Operator Well No. Ruth Keller MSH

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

Notice Time Requirement: Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry
Date of Notice: 4/29/24/6 **Date of Planned Entry:** 5/6/26

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

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

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

Notice is hereby provided to:

☒ SURFACE OWNER(s)
Name: Andrea M. Burke
Address: 305 Roberts Ave
Wheeling WV 26003
Name:
Address:
Name:
Address:

☒ COAL OWNER OR LESSEE
Name: Marshall Land LLC
Address: PO Box 261
Julian WV 25529

☒ MINERAL OWNER(s)
Name: Andrea M. Burke
Address: 305 Roberts Ave
Wheeling WV 26003
*please attach additional forms if necessary

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Office of Oil and Gas
AUG 13 2026
WV Department of
Environmental Protection

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

State:	West Virginia	Approx. Latitude & Longitude:	39.986010, -80.697140
County:	Marshall	Public Road Access:	Glen Dale Heights Road
District:	Union	Watershed:	Upper Ohio South
Quadrangle:	Moundsville	Generally used farm name:	Ruth Keller MSH

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

Notice is hereby given by:

Well Operator:	Expand Operating LLC	Address:	1300 Fort Pierpont Dr., Suite 201
Telephone:	304-884-1610		Morgantown, WV 26508
Email:	Brittany.Woody@expandenergy.com	Facsimile:	304-884-1690

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09/18/2026

47-051-02601

WW-6A3
(1/12)

Operator Well No. Ruth Keller MSH

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

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

Date of Notice: 4/29/26 **Date of Planned Entry:** 5/6/26

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

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

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

Notice is hereby provided to:

☒ SURFACE OWNER(s)
Name: Brian J. Keller
Address: 4255 Glen Dale Heights
Glen Dale WV 26038
Name:
Address:
Name:
Address:

☒ COAL OWNER OR LESSEE
Name: Marshall Land LLC
Address: PO Box 261
Julian WV 25529

☒ MINERAL OWNER(s)
Name: Brian J. Keller
Address: 4255 Glen Dale Heights
Glen Dale WV 26038
*please attach additional forms if necessary

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Office of Oil and Gas
AUG 13 2026
WV Department of
Environmental Protection

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

State:	West Virginia	Approx. Latitude & Longitude:	39.986010, -80.697140
County:	Marshall	Public Road Access:	Glen Dale Heights Road
District:	Union	Watershed:	Upper Ohio South
Quadrangle:	Moundsville	Generally used farm name:	Ruth Keller MSH

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

Notice is hereby given by:

Well Operator:	Expand Operating LLC	Address:	1300 Fort Pierpont Dr., Suite 201
Telephone:	304-884-1610		Morgantown, WV 26508
Email:	Brittany.Woody@expandenergy.com	Facsimile:	304-884-1690

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09/18/2026

47-051-02601

WW-6A3
(1/12)

Operator Well No. Ruth Keller MSH

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

Notice Time Requirement: Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry
Date of Notice: 4/29/26 **Date of Planned Entry:** 5/6/26

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

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

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Notice is hereby provided to:

☒ SURFACE OWNER(s)
Name: Suzanne K. Cook
Address: 4255 Glen Dale Heights Road
Glen Dale WV 26038
Name:
Address:
Name:
Address:

☒ COAL OWNER OR LESSEE
Name: Marshall Land LLC
Address: PO Box 261
Julian WV 25529

☒ MINERAL OWNER(s)
Name: Suzanne K. Cook
Address: 4255 Glen Dale Heights Road
Glen Dale WV 26038
*please attach additional forms if necessary

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Office of Oil and Gas
AUG 13 2026
WV Department of Environmental Protection

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

State:	West Virginia	Approx. Latitude & Longitude:	39.986010, -80.697140
County:	Marshall	Public Road Access:	Glen Dale Heights Road
District:	Union	Watershed:	Upper Ohio South
Quadrangle:	Moundsville	Generally used farm name:	Ruth Keller MSH

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Notice is hereby given by:

Well Operator:	Expand Operating LLC	Address:	1300 Fort Pierpont Dr., Suite 201
Telephone:	304-884-1610		Morgantown, WV 26508
Email:	Brittany.Woody@expandenergy.com	Facsimile:	304-884-1690

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09/18/2026

47-051-02601

WW-6A3
(1/12)

Operator Well No. Ruth Keller MSH

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

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

Date of Notice: 4/29/26 **Date of Planned Entry:** 5/6/26

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

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

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Notice is hereby provided to:

☒ SURFACE OWNER(s)
Name: Steven M. Cook
Address: 4090 Glen Dale Heights Road
Glen Dale WV 26038
Name:
Address:
Name:
Address:

☒ COAL OWNER OR LESSEE
Name: Marshall Land LLC
Address: PO Box 261
Julian WV 25529

☒ MINERAL OWNER(s)
Name: Steven M. Cook
Address: 4090 Glen Dale Heights Road
Glen Dale WV 26038

*please attach additional forms if necessary

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AUG 13 2026
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Environmental Protection

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

State:	West Virginia	Approx. Latitude & Longitude:	39.986010, -80.697140
County:	Marshall	Public Road Access:	Glen Dale Heights Road
District:	Union	Watershed:	Upper Ohio South
Quadrangle:	Moundsville	Generally used farm name:	Ruth Keller MSH

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

Notice is hereby given by:

Well Operator:	Expand Operating LLC	Address:	1300 Fort Pierpont Dr., Suite 201
Telephone:	304-884-1610		Morgantown, WV 26508
Email:	Brittany.Woody@expandenergy.com	Facsimile:	304-884-1690

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09/18/2026

47-051-02601

WW-6A4
(1/12)

Operator Well No. Ruth Keller MSH 1005H

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: 06/17/2026 **Date Permit Application Filed:** 8/12

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.

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Office of Oil and Gas
AUG 13 2026
WV Department of
Environmental Protection

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

Name: Suzanne Cook
Address: 296 North Balph Ave.
Pittsburgh, PA 15202

Name:
Address:

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

State: West Virginia
County: Marshall
District: Union
Quadrangle: Moundsville, WV
Watershed: Short Creek Ohio River (HUC-10)

UTM NAD 83 Easting: 525,978.395
Northing: 4,426,209.760
Public Road Access: Grand View Road
Generally used farm name: Ruth Keller

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

Notice is hereby given by:

Well Operator: Expand Energy Company, LLC
Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
Telephone:
Email:
Facsimile:

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

Oil and Gas Privacy Notice:
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09/18/2026

47-051-02601

WW-6A4
(1/12)

Operator Well No. Ruth Keller MSH 1005H

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: 06/17/2026 **Date Permit Application Filed:** 8/12

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: Steven M. Cook
Address: 4090 Glen Dale Heights Rd
Glen Dale, WV 26038

Name:
Address:

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

State: West Virginia
County: Marshall
District: Union
Quadrangle: Moundsville, WV
Watershed: Short Creek Ohio River (HUC-10)

UTM NAD 83 Easting: 525,978.395
Northing: 4,426,209.760
Public Road Access: Grand View Road
Generally used farm name: Ruth Keller

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

Notice is hereby given by:

Well Operator: Expand Energy Company, LLC
Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
Telephone:
Email:
Facsimile:

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

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WW-6A4
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Operator Well No. Ruth Keller MSH 1005H

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

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Notice Time Requirement: Notice shall be provided at least **TEN (10)** days prior to filing a permit application.
Date of Notice: 06/17/2026 **Date Permit Application Filed:** TJR

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

☐ HAND DELIVERY ☒ CERTIFIED MAIL RETURN RECEIPT REQUESTED

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

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

Name: David Cook
Address: 1456 Sunset Lane
Glen Dale, WV 26038

Name:
Address:

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

State: West Virginia
County: Marshall
District: Union
Quadrangle: Moundsville, WV
Watershed: Short Creek Ohio River (HUC-10)

UTM NAD 83 Easting: 525,978.395
Northing: 4,426,209.760
Public Road Access: Grand View Road
Generally used farm name: Ruth Keller

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

Notice is hereby given by:

Well Operator: Expand Energy Company, LLC
Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
Telephone:
Email:
Facsimile:

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

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

RECEIVED
Office of Oil and Gas
AUG 13 2026
WV Department of
Environmental Protection

09/18/2026

47-051-02601

WW-6A4
(1/12)

Operator Well No. Ruth Keller MSH 1005H

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: 4/17/26 **Date Permit Application Filed:** 8/12

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

☐ HAND DELIVERY ☑ CERTIFIED MAIL RETURN RECEIPT REQUESTED

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

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

Name: Brian Keller
Address: 4255 Glen Dale Heights Rd
Glen Dale, WV 26038

Name:
Address:

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Office of Oil and Gas
AUG 13 2026
WV Department of
Environmental Protection

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

State: West Virginia
County: Marshall
District: Union
Quadrangle: Moundsville, WV
Watershed: Short Creek Ohio River (HUC-10)

UTM NAD 83 Easting: 525,978.395
Northing: 4,426,209.760
Public Road Access: Grand View Road
Generally used farm name: Ruth Keller

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

Notice is hereby given by:

Well Operator: Expand Energy Company, LLC
Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
Telephone:
Email:
Facsimile:

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

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

09/18/2026

47-051-02601

WW-6A4
(1/12)

Operator Well No. Ruth Keller MSH 1005H

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: 8/17/26 **Date Permit Application Filed:** 8/12

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: Andrea M. Burke
Address: 305 Roberts Ave.
Wheeling, WV 26003

Name:
Address:

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

State: West Virginia
County: Marshall
District: Union
Quadrangle: Moundsville, WV
Watershed: Short Creek Ohio River (HUC-10)

UTM NAD 83 Easting: 525,978.395
Northing: 4,426,209.760
Public Road Access: Grand View Road
Generally used farm name: Ruth Keller

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

Notice is hereby given by:

Well Operator: Expand Energy Company, LLC
Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
Telephone:
Email:
Facsimile:

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

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

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AUG 13 2026
WV Department of Environmental Protection

09/18/2026

47-051-02601

WW-6A5
(1/12)

Operator Well No. Ruth Keller MSH 1005H

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: 06/17/2026 **Date Permit Application Filed:** 8/12

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: Steven M. Cook
Address: 4090 Glen Dale Heights Rd
Glen Dale, WV 26038

Name:
Address:

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

State: West Virginia
County: Marshall
District: Union
Quadrangle: Moundsville
Watershed: Short Creek Ohio River (HUC-10)

UTM NAD 83 Easting: 525,978.395
Northing: 4,426,209.760
Public Road Access: Grand View Road
Generally used farm name: Ruth Keller

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.

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09/18/2026

47-051-02601

WW-6A5
(1/12)

Operator Well No. Ruth Keller MSH 1005H

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: 06/17/2026 **Date Permit Application Filed:** 8/12

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: Suzanne Cook
Address: 296 North Balph Ave.
Pittsburgh, PA 15202

Name:
Address:

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

State: West Virginia
County: Marshall
District: Union
Quadrangle: Moundsville
Watershed: Short Creek Ohio River (HUC-10)

UTM NAD 83 Easting: 525,978.395
Northing: 4,426,209.760
Public Road Access: Grand View Road
Generally used farm name: Ruth Keller

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

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

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

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WV Department of
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47-051-02601

WW-6A5
(1/12)

Operator Well No. Ruth Keller MSH 1005H

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: 06/17/2026 **Date Permit Application Filed:** 8/12

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

☑ CERTIFIED MAIL RETURN RECEIPT REQUESTED ☐ HAND DELIVERY

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

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

Name: David Cook
Address: 1456 Sunset Lane
Glen Dale, WV 26038

Name:
Address:

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

State: West Virginia
County: Marshall
District: Union
Quadrangle: Moundsville
Watershed: Short Creek Ohio River (HUC-10)

UTM NAD 83 Easting: 525,978.395
Northing: 4,426,209.760
Public Road Access: Grand View Road
Generally used farm name: Ruth Keller

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

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

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

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47-051-02601

WW-6A5
(1/12)

Operator Well No. Ruth Keller MSH 1005H

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

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**
Date of Notice: 6/17/26 **Date Permit Application Filed:** 8/12

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

☒ CERTIFIED MAIL RETURN RECEIPT REQUESTED ☐ HAND DELIVERY

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

Name: Brian Keller
Address: 4255 Glen Dale Heights Rd
Glen Dale, WV 26038

Name:
Address:

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

State: West Virginia
County: Marshall
District: Union
Quadrangle: Moundsville
Watershed: Short Creek Ohio River (HUC-10)

UTM NAD 83 Easting: 525,978.395
Northing: 4,426,209.760
Public Road Access: Grand View Road
Generally used farm name: Ruth Keller

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

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

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

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Office of Oil and Gas
AUG 13 2026
WV Department of
Environmental Protection

09/18/2026

47-051-02601

WW-6A5
(1/12)

Operator Well No. Ruth Keller MSH 1005H

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

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**
Date of Notice: 4/17/26 **Date Permit Application Filed:** 8/12

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

☒ CERTIFIED MAIL RETURN RECEIPT REQUESTED ☐ HAND DELIVERY

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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: Andrea M. Burke
Address: 305 Roberts Ave.
Wheeling, WV 26003

Name:
Address:

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

State: West Virginia
County: Marshall
District: Union
Quadrangle: Moundsville
Watershed: Short Creek Ohio River (HUC-10)

UTM NAD 83 Easting: 525,978.395
Northing: 4,426,209.760
Public Road Access: Grand View Road
Generally used farm name: Ruth Keller

This Notice Shall Include:
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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:
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AUG 13 2026
WV Department of
Environmental Protection

09/18/2026

47-051-02601

WEST VIRGINIA
DEPARTMENT OF TRANSPORTATION

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

Michael J. DeMers
Deputy Secretary of Transportation

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

May 4, 2026

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

Subject: DOH Permit for the Ruth Keller Well Pad, Marshall County
Ruth Keller MSH 6H Well Site Ruth Keller MSH 8H Well Site
Ruth Keller MSH 605H Well Site Ruth Keller MSH 805H Well Site
Ruth Keller MSH 1005H Well Site

Dear Mr. Harmon,

This well site will be accessed from a DOH permit #06-2011-0385 which has been transferred to Expand Operating, LLC for access to the State Road for a well site located off Marshall County State Route 86 MP 4.61.

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

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AUG 13 2026
WV Department of
Environmental Protection

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

09/18/2026

Attachment VI Frac Additives

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

As of 7/5/2023

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WV Department of
Environmental Protection
09/18/2026

WW-6A7
(6-12)

47-051-02601

OPERATOR: Expand Operating LLC WELL NO: Ruth Keller MSH 1005H

PAD NAME: Ruth Keller MSH

REVIEWED BY: _____ SIGNATURE: Brittany Woody

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

Well Restrictions ****Pad Built 1/19/12**

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

☐ DEP Waiver and Permit Conditions

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

☐ DEP Waiver and Permit Conditions

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

☐ DEP Waiver and Permit Conditions

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

☐ Surface Owner Waiver and Recorded with County Clerk, OR

☐ DEP Variance and Permit Conditions

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

☐ Surface Owner Waiver and Recorded with County Clerk, OR

☐ DEP Variance and Permit Conditions

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

☐ Surface Owner Waiver and Recorded with County Clerk, OR

☐ DEP Variance and Permit Conditions

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09/18/2026

47-051-02601

RUTH KELLER WELL PAD
AS-BUILT AND EROSION & SEDIMENT CONTROL IMPROVEMENT PLAN
UNION DISTRICT, MARSHALL COUNTY, WEST VIRGINIA
WEGEE CREEK - OHIO RIVER WATERSHED

LOCATION COORDINATES:
ACCESS ROAD ENTRANCE
LATITUDE: 39.985938 LONGITUDE: -80.697106 (NAD 83)
N 4426240.44 E 525860.23 (UTM ZONE 17 METERS)

CENTROID OF PAD
LATITUDE: 39.985629 LONGITUDE: -80.695655 (NAD 83)
N 4426206.56 E 525984.24 (UTM ZONE 17 METERS)

EVACUATION GATHERING AREA
LATITUDE: 39.985899 LONGITUDE: -80.696967 (NAD 83)
N 4426236.12 E 525872.17 (UTM ZONE 17 METERS)

GENERAL DESCRIPTION:
THE ACCESS ROAD(S) AND WELL PAD HAVE BEEN CONSTRUCTED TO AID IN THE DEVELOPMENT OF INDIVIDUAL MARCELLUS SHALE GAS WELLS.

FLOODPLAIN NOTES:
THE SITE IS LOCATED WITHIN FEMA FLOOD ZONE "X" PER FEMA FLOOD MAP #54051C0080E.

MISS UTILITY STATEMENT:
MISS UTILITY SHALL BE NOTIFIED IF ANY ADDITIONAL EXCAVATION IS NECESSARY.

PROJECT CONTACTS:

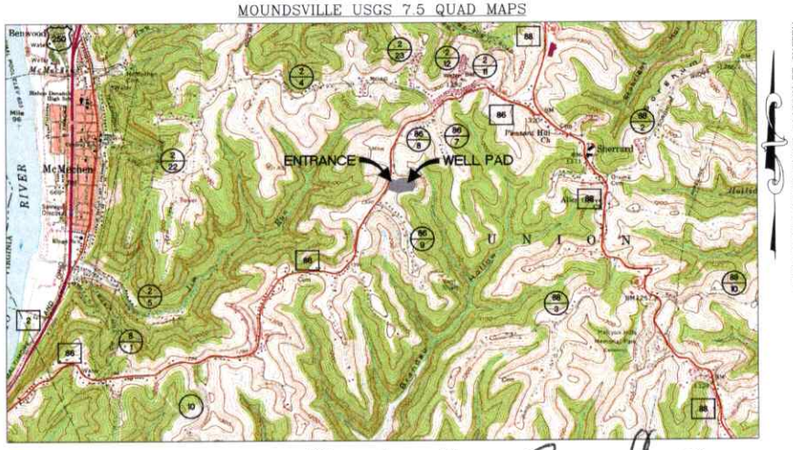
OPERATOR:
EXPAND ENERGY CORPORATION
1300 FORT PIERPOINT DRIVE
STE 201 MORGANTOWN, WV 26508
PHONE: (304) 884-1658

SHAWN JACKSON – FIELD PLANNING SUPERVISOR
OFFICE: (304) 884-1618 CELL: (304) 641-3204

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

NOTES:
1. ALL BMP'S MUST REMAIN IN PLACE AND FUNCTIONAL UNTIL ALL AREAS WITHIN THE LIMIT OF DISTURBANCE ARE COMPLETE AND PERMANENTLY STABILIZED. MAINTENANCE MUST INCLUDE INSPECTION OF ALL EROSION AND SEDIMENT CONTROLS AFTER EACH RUNOFF EVENT IN EXCESS OF 0.5" AND ON A BIWEEKLY BASIS.
2. THE CONSTRUCTION SITE SHOULD BE STABILIZED AS SOON AS POSSIBLE AFTER COMPLETION. ESTABLISHMENT OF FINAL STABILIZATION MUST BE INITIATED NO LATER THAN 7 DAYS AFTER REACHING FINAL GRADE. FINAL STABILIZATION MEANS THAT ALL SOIL-DISTURBING ACTIVITIES ARE COMPLETED, AND THAT EITHER A PERMANENT VEGETATIVE COVER WITH A DENSITY OF 70% OR GREATER HAS BEEN ESTABLISHED OR THAT THE SURFACE HAS BEEN STABILIZED BY HARD COVER SUCH AS PAVEMENT OR BUILDINGS. IT SHOULD BE NOTED THAT THE 70% REQUIREMENT REFERS TO THE TOTAL AREA VEGETATED AND NOT JUST A PERCENT OF THE SITE.
3. ALL PERMANENT SEDIMENT CONTROL MEASURES CAN BE REMOVED AFTER THE SITE IS PERMANENTLY STABILIZED AND APPROVAL IS RECEIVED FROM THE WVDEP.
4. ANY AREAS DISTURBED BY REMOVAL OF CONTROLS SHALL BE REPAIRED, STABILIZED, AND PERMANENTLY SEEDED.
5. THE AS-BUILT INFORMATION SHOWN HEREON REFLECTS FIELD DATA COLLECTED RELATING TO THE FINAL GRADING OF THE DISTURBED AREA AS OF JANUARY 11, 2018. NAVITUS ENGINEERING IS NOT RESPONSIBLE FOR ANY CHANGES MADE TO THE SITE AFTER THE ABOVE MENTIONED DATES.
6. THE EXISTING CONTAINMENT BERM AROUND THE WELL PAD SHALL BE REPAIRED AS NECESSARY TO ENSURE 100% CONTAINMENT OF ALL FLUIDS PRIOR TO DRILLING OPERATIONS.
7. THE EXISTING EGRESSES TO THE WELL PAD SHALL HAVE THE MOUNTABLE BERMS REPAIRED AS NECESSARY TO ENSURE 100% CONTAINMENT OF ALL FLUIDS PRIOR TO DRILLING OPERATIONS.

MOUNDSVILLE USGS 7.5 QUAD MAPS



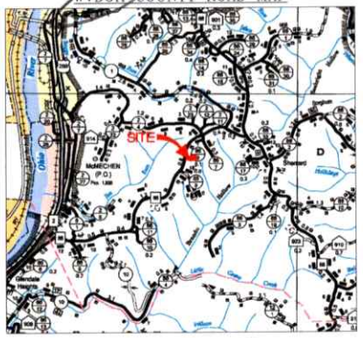
WEST VIRGINIA STATE PLANE COORDINATE SYSTEM
NORTH ZONE, NAD83
ELEVATIONS BASED ON NAVD88
ESTABLISHED BY SURVEY GRADE GPS & OPUS POST-PROCESSING

WEST VIRGINIA COUNTY MAP



(NOT TO SCALE)

WVDOH COUNTY ROAD MAP



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

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

REPRODUCTION NOTE
THESE PLANS WERE CREATED TO BE PLOTTED ON 22"X34" (ANSI D) PAPER. HALF SCALE DRAWINGS ARE ON 11"X17" (ANSI B) PAPER.

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

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AUG 13 2026
WV Department of Environmental Protection

SHEET INDEX:

1 – COVER SHEET
2 – LEGEND
3-4 VICINITY MAP
5 – OVERALL PLAN SHEET INDEX
6 – ACCESS ROAD & WELL PAD AS-BUILT PLAN
7 – ACCESS ROAD AS-BUILT PROFILES & WELL PAD AS-BUILT SECTIONS
8-9 – WELL PAD AS-BUILT SECTIONS
10-11 – CONSTRUCTION DETAILS
12 – WELL PAD RECLAMATION PLAN

RUTH KELLER LIMITS OF DISTURBANCE AREA (AC)			
Total Site	**Permitted**	**Modification**	**Total**
Access Road	0.50	0.00	0.50
Well Pad	4.30	0.00	4.30
Topsoil Stockpiles	1.77	0.21	1.98
Total Affected Area	**6.57**	**0.21**	**6.78**
Impacts to Wv. Rt. 86 R/W			
Access Road	0.03	0.00	0.03
Total Affected Area	**0.03**	**0.00**	**0.03**
Impacts to Ruth Ann Keller & David K. Cook TM 13-50.2			
Access Road	0.16	0.00	0.16
Well Pad	0.18	0.00	0.18
Total Affected Area	**0.34**	**0.00**	**0.34**
Impacts to Ruth Ann Keller & David K. Cook TM 13-6-50			
Access Road	0.31	0.00	0.31
Well Pad	4.12	0.00	4.12
Topsoil Stockpiles	1.77	0.21	1.98
Total Affected Area	**6.20**	**0.21**	**6.41**

Well Name	WV North NAD 27	NAD 27 Lat & Long	NAD 83 UTM (METERS) ZONE 17	NAD 83 Lat & Long
	Permitted Location			
6H	N 543316.11 E 1664835.58	LAT 39-59-08.0361 LONG -80-41-46.0277	N 4426207.62 E 525961.47	LAT 39-59-08.3024 LONG -80-41-45.3191
8H	N 543317.83 E 1664849.49	LAT 39-59-08.0530 LONG -80-41-45.8492	N 4426208.16 E 525965.70	LAT 39-59-08.3193 LONG -80-41-45.1406
605H	N 543319.15 E 1664863.41	LAT 39-59-08.0698 LONG -80-41-45.6707	N 4426208.69 E 525969.93	LAT 39-59-08.3362 LONG -80-41-44.9620
805H	N 543320.67 E 1664877.33	LAT 39-59-08.0867 LONG -80-41-45.4922	N 4426209.22 E 525974.16	LAT 39-59-08.3530 LONG -80-41-44.7835
1005H	N 543322.19 E 1664891.24	LAT 39-59-08.1036 LONG -80-41-45.3137	N 4426209.76 E 525978.40	LAT 39-59-08.3699 LONG -80-41-44.6050
Proposed Well Pad Elevation	**1,327.6**			

Well Name	WV North NAD 27	NAD 27 Lat & Long	NAD 83 UTM (METERS) ZONE 17	NAD 83 Lat & Long
	As-Drilled Location			
3H API# 47-051-01501	N 543292.25 E 1664838.18	LAT 39-59-07.8007 LONG -80-41-45.9902	N 4426200.37 E 525962.38	LAT 39-59-08.0670 LONG -80-41-45.2815
5H	N 543293.77 E 1664852.10	LAT 39-59-07.8176 LONG -80-41-45.8117	N 4426200.90 E 525966.62	LAT 39-59-08.0839 LONG -80-41-45.1030
205H	N 543295.29 E 1664866.02	LAT 39-59-07.8344 LONG -80-41-45.6331	N 4426201.44 E 525970.85	LAT 39-59-08.1007 LONG -80-41-44.9245
405H	N 543296.81 E 1664879.93	LAT 39-59-07.8513 LONG -80-41-45.4546	N 4426201.97 E 525975.08	LAT 39-59-08.1176 LONG -80-41-44.7460
As-Built Well Pad Elevation	**1,327.6**			

MATERIAL QUANTITIES
WELL PAD SITE: RUTH KELLER

	Item Description		Quantity	Unit
1.0	Erosion & Sediment Control			
1.1	18" Compost Filter Sock		136	LF
2.0	Unclassified Earthwork			
2.1	Well Pad Sump Area Reclamation			
	2.1.1	Excavation (Cut to Compact Fill)	0	CY
	2.1.2	Excavation (Export to Stockpile)	14	CY
3.0	Stone and Aggregate Surfacing			
3.1	Rip-Rap			
	3.1.1	R-3 (3-6" Stone, 9" Depth)	32	TONS
	3.1.2	Geotextile Fabric (US 200 or Equal)	65	SY

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

REVISION	DATE
REVISED PER COMMENTS	04/29/2026

expand
THIS DOCUMENT WAS PREPARED FOR: EXPAND ENERGY CORPORATION

COVER SHEET
RUTH KELLER
WELL PAD
UNION DISTRICT
MARSHALL COUNTY, WEST VIRGINIA

CYRUS S. KUMP 9078 STATE OF WEST VIRGINIA PROFESSIONAL ENGINEER
04/27/2026

DATE: 02/05/2018
SCALE: AS SHOWN
SHEET 1 OF 12

LEGEND

LEGEND

EX. INDEX CONTOUR & CONTOUR LABEL	1000	PR. INDEX CONTOUR (10' INTERVAL) & CONTOUR LABEL	1000
EX. INTERMEDIATE CONTOUR		PR. INTERMEDIATE CONTOUR (2' INTERVAL)	
EX. PROPERTY LINE		PR. INTERMEDIATE CONTOUR (1' INTERVAL)	
EX. TOP OF BERM		PR. INDEX ROAD CONTOUR (10' INTERVAL) & CONTOUR LABEL	1000
EX. TOP OF BERM TO BE RELOCATED		PR. INTERMEDIATE ROAD CONTOUR (2' INTERVAL)	
EX. ROAD EDGE OF GRAVEL/DIRT		PR. PADS/STOCKPILE TOPO LIMITS	
EX. ROAD EDGE OF PAVEMENT		PERMITTED LIMITS OF DISTURBANCE	LOD
EX. ROAD CENTERLINE		MODIFICATION LIMITS OF DISTURBANCE	LOD
EX. GUARDRAIL		PR. ROAD/IMPOUNDMENT EDGE OF GRAVEL	
EX. BRIDGE		PR. ROAD CENTERLINE	
EX. DITCHLINE/DRAINAGE FEATURE		PR. GUARDRAIL	
EX. RIP-RAP	RR	PR. ROCK CONSTRUCTION ENTRANCE	
EX. CULVERT		PR. AIR BRIDGE	
EX. TREELINE		PR. CULVERT	CLV #1
EX. BUILDING		PR. DITCH	DIC #1
EX. MISCELLANEOUS FEATURE		PR. RIP-RAP TRAPEZOIDAL DITCH	DIC #1
EX. 100 YR FEMA FLOODPLAIN		PR. OUTLET PROTECTION	OP #1
EX. DELINEATED STREAM		PR. DIVERSION	DIV #1
EX. DELINEATED WETLAND/POND		PR. ROCK LEVEL SPREADER	
100' WETLAND/STREAM BUFFER		PR. COMPOST FILTER SOCK	SCF #1 XXX'
STREAM/WETLAND DELINEATION STUDY AREA		PR. SUPER SILT FENCE	SSF #1 SSF
EX. FENCELINE		PR. WELL HEAD	
EX. GATE		PR. PAD DEWATERING SYSTEM	
EX. ACCESS GATE WITH EMERGENCY LIFELINE		PR. TOP OF PAD CONTAINMENT BERM	
EX. WELL HEAD ON DESIGNED PAD		PR. 220' X 320' PAD FOOTPRINT	
EX. GAS WELL		PR. SPOT SHOT	1000
EX. PIPELINE	G	PR. PERIMETER SAFETY FENCE	
EX. PIPELINE R/W		PR. ACCESS GATE WITH EMERGENCY LIFELINE	
EX. PIPELINE METER	M	PR. PIPELINE	G
EX. PIPELINE VALVE		PR. PIPELINE R/W	
EX. PIT		PR. OVERHEAD UTILITY	OHU
EX. OVERHEAD UTILITY	OHU	PR. POWER POLE/GUY WIRE	
EX. POWER POLE/GUY WIRE		PR. OVERHEAD UTILITY R/W	
EX. UNDERGROUND ELECTRIC	E	PR. WATERLINE	
EX. UNDERGROUND TELEPHONE	T	BORING LOCATION	
EX. UNDERGROUND FIBER OPTIC	FO	X-SECTION/PROFILE GRID INDEX	
EX. UTILITY R/W		X-SECTION/PROFILE GRID INTERMEDIATE	
EX. WATERLINE		X-SECTION/PROFILE PROPOSED GRADE	
EX. WATER WELL/EX. SPRING	W S	X-SECTION/PROFILE EXISTING GRADE	
EX. COMPOST SOCK	ESC X	X-SECTION/PROFILE WATER SURFACE	
EX. SUPER SILT FENCE	ESC SSF	X-SECTION/PROFILE CULVERT	
EX. SILT FENCE	ESC X	MATCHLINE	
APPROX. LOCATION OF SLIDE AREA		EX. MUSTER AREA / EX. MAILBOX / EX. MINI 250 / EX. SLUG CATCHER	
APPROX. LOCATION OF BORROW/ SPOIL AREA		CONTROL PT / EX. TEG / EX. VRU / EX. COMBUSTOR	
PR. TOE BENCH		EX. SAND TRAP / EX. VRT / EX. BTEX / EX. COMPRESSOR	
EX. APPROX. SURFACE & SUB-SURFACE WELL LINE AREA		EX. FLARE DRUM & BLOW CASE / EX. TEMP. SAND SEPARATOR	
EX. APPROX. SURFACE & SUB-SURFACE BLOW-DOWN/DUMP LINE AREA		EX. METER SKID / EX. FLASH GAS METER	
EX. ESD & APPROX. SURFACE & SUB-SURFACE ESD LINE		EX. REBOILER / EX. HEATER TREATER	
EX. APPROX. SURFACE & SUB-SURFACE SALES LINE AREA		EX. DEHY W/ REBOILER / EX. PIG LAUNCHER	
EX. CONDENSATE LINE		EX. STORAGE TANK / EX. GPU	
EX. PRODUCED WATER LINE			
EX. FLASH GAS/MAKEUP GAS/ FUEL SUPPLY LINE			
EX. ABOVE-GND VAPOR LINE	G	EX. STABILIZER / EX. WELL PAD DEWATERING SYSTEM	
EX. SECONDARY CONTAINMENT			

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WV Department of
Environmental Protection

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

REVISION
REVISED PER COMMENTS
DATE
04/29/2026

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THIS DOCUMENT WAS PREPARED FOR EXPAND ENERGY CORPORATION

LEGEND
RUTH KELLER
WELL PAD
UNION DISTRICT
MARSHALL COUNTY, WEST VIRGINIA

CHAD B. KNOPP REGISTERED PROFESSIONAL ENGINEER STATE OF WEST VIRGINIA
04/29/2026

DATE: 02/05/2018
SCALE: N/A
SHEET 2 OF 12

47-051-02601

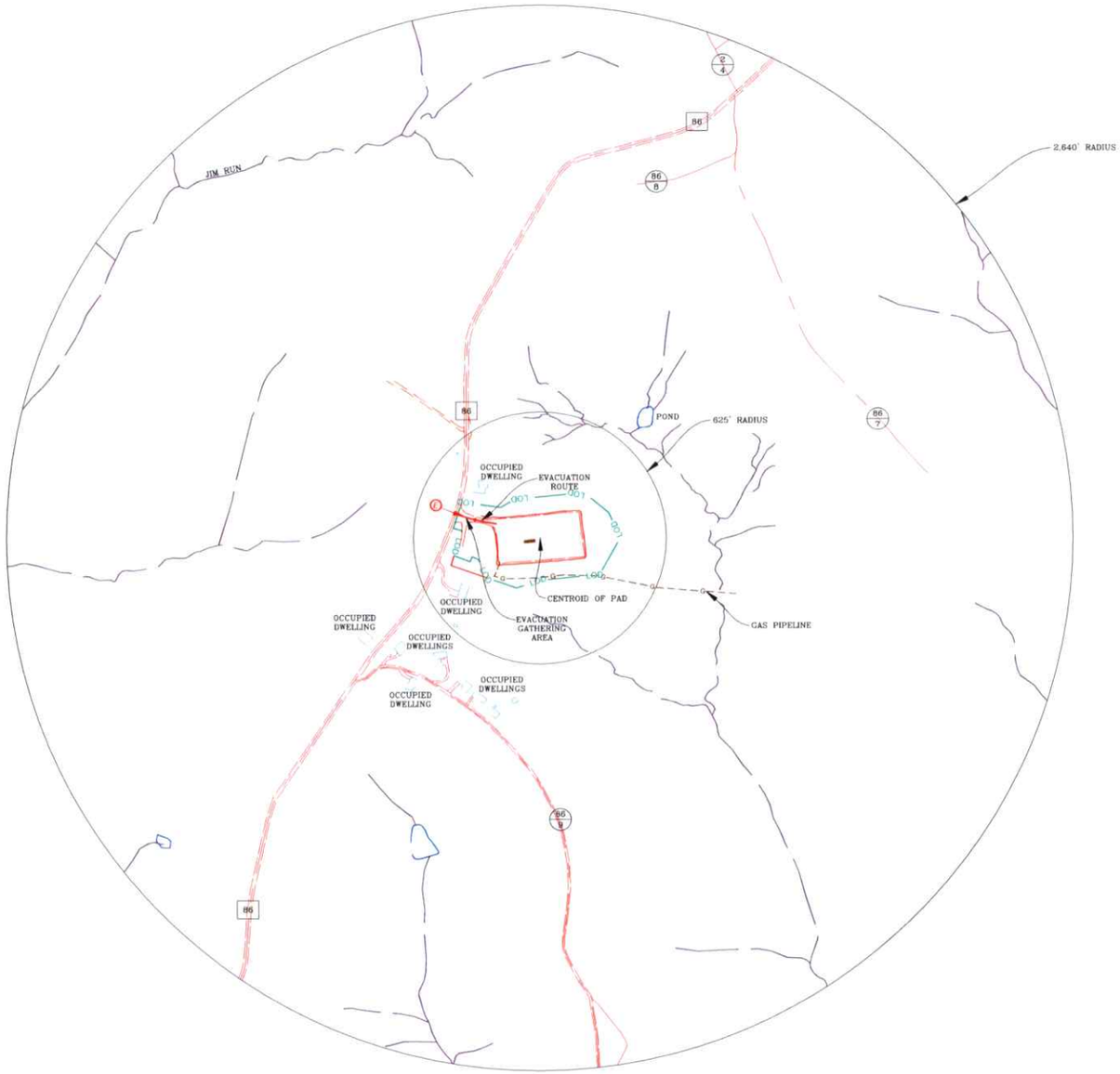
GRID NORTH AND ELEVATIONS SHOWN HEREON WERE ESTABLISHED BY SURVEY GRADE GPS

LOCATION COORDINATES:

ACCESS ROAD ENTRANCE
LATITUDE: 39.985938 LONGITUDE: -80.697106 (NAD 83)
N 4426240.44 E 525860.23 (UTM ZONE 17 METERS)

CENTROID OF PAD
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N 4426206.56 E 525984.24 (UTM ZONE 17 METERS)

EVACUATION GATHERING AREA
LATITUDE: 39.985899 LONGITUDE: -80.696967 (NAD 83)
N 4426236.12 E 525872.17 (UTM ZONE 17 METERS)



LEGEND

EVACUATION GATHERING AREA	E
EVACUATION ROUTE	
EX. SPRING	S
EX. WATER WELL	W

RECEIVED
Office of Oil and Gas
AUG 13 2026
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Environmental Protection

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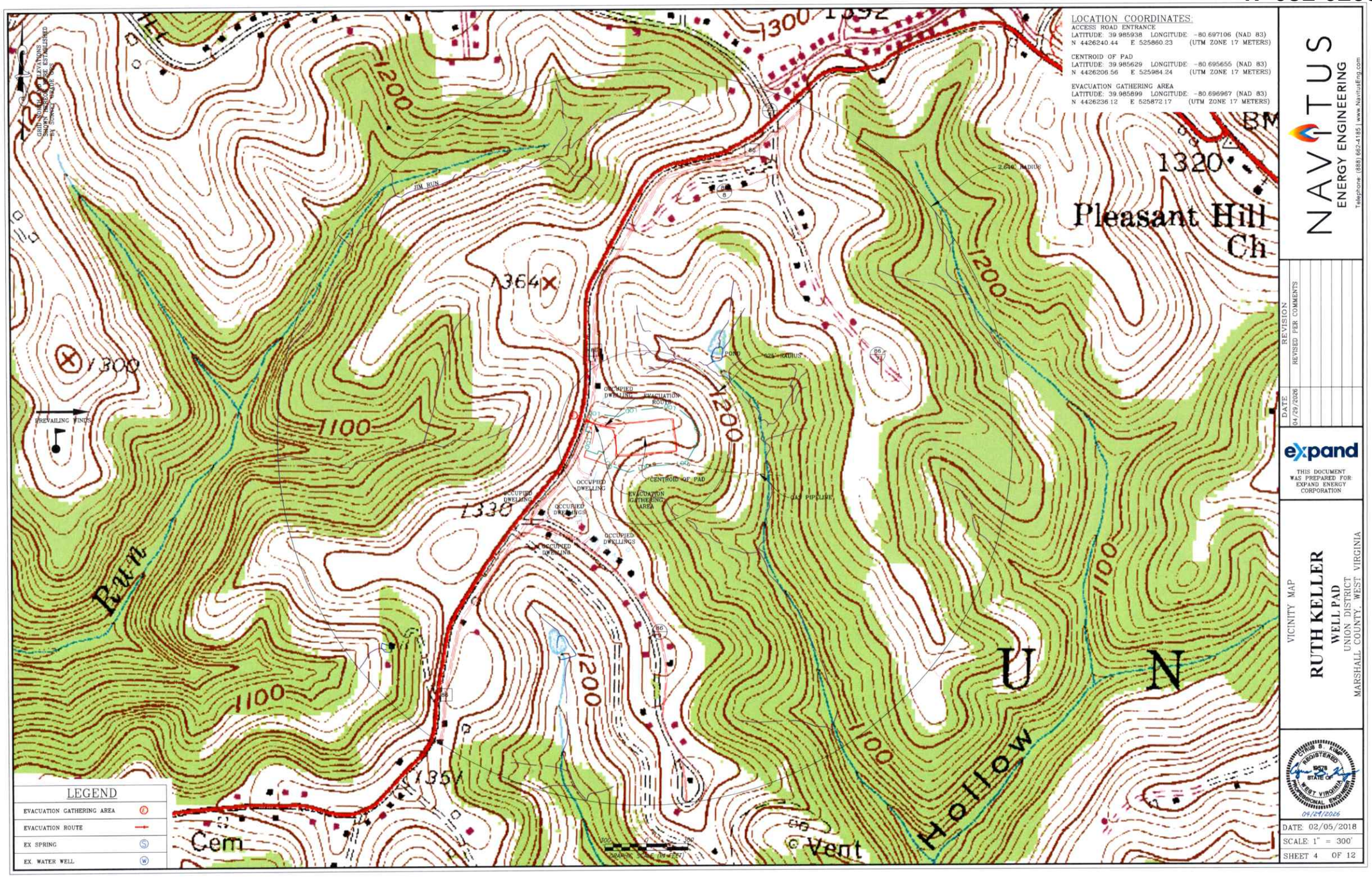
DATE	REVISION
04/29/2026	REVISED PER COMMENTS

expand
THIS DOCUMENT WAS PREPARED FOR: EXPAND ENERGY CORPORATION

VICINITY MAP
RUTH KELLER
WELL PAD
UNION DISTRICT
MARSHALL COUNTY, WEST VIRGINIA

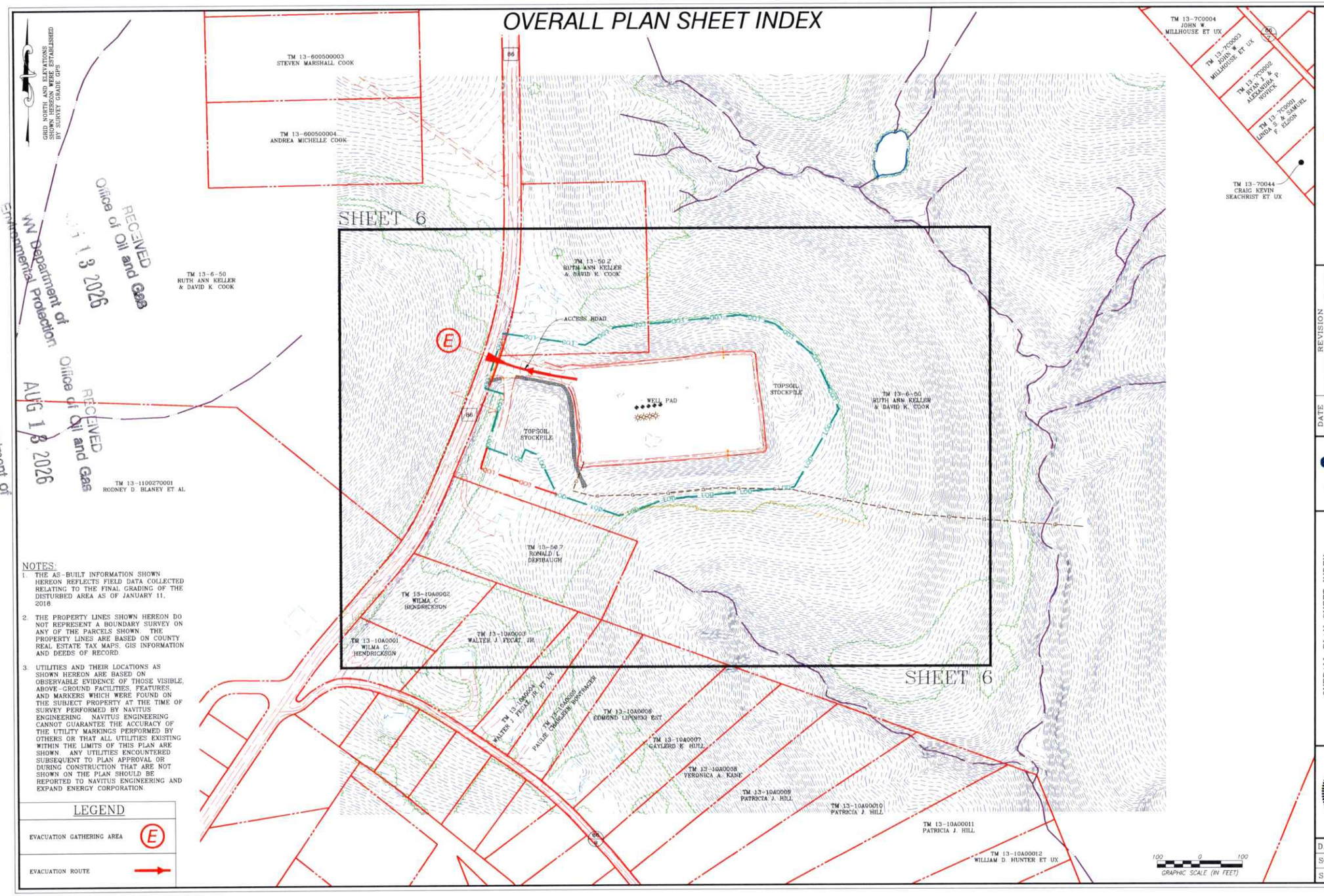
CHRIS S. TOMPKINS
REGISTERED
6570
STATE OF
WEST VIRGINIA
PROFESSIONAL ENGINEER
04/29/2026

DATE: 02/05/2018
SCALE 1" = 300'
SHEET 3 OF 12


LOCATION COORDINATES:
ACCESS ROAD ENTRANCE
LATITUDE: 39.985938 LONGITUDE: -80.697106 (NAD 83)
N 4426240.44 E 525860.23 (UTM ZONE 17 METERS)
CENTROID OF PAD
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EVACUATION GATHERING AREA
LATITUDE: 39.985899 LONGITUDE: -80.696967 (NAD 83)
N 4426236.12 E 525872.17 (UTM ZONE 17 METERS)
Pleasant Hill Ch
1364
1330
1354
1300
1320
1200
1100
1092
Run
Hollow
Cem
Vent
JIM RUN
POND
2,640' RADIUS
625' RADIUS
PREVAILING WINDS
OCCUPIED DWELLING
EVACUATION ROUTE
CENTROID OF PAD
EVACUATION GATHERING AREA
GAS PIPELINE
LEGEND
EVACUATION GATHERING AREA
EVACUATION ROUTE
EX SPRING
EX WATER WELL
NAVITUS
ENERGY ENGINEERING
Telephone (888) 662-4185 | www.NavitusEng.com
REVISION
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DATE
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THIS DOCUMENT WAS PREPARED FOR EXPAND ENERGY CORPORATION
VICINITY MAP
RUTH KELLER
WELL PAD
UNION DISTRICT
MARSHALL COUNTY, WEST VIRGINIA
STEVEN B. HARRIS
REGISTERED
9578
STATE OF
WEST VIRGINIA
PROFESSIONAL ENGINEER
04/29/2026
DATE: 02/05/2018
SCALE: 1" = 300'
SHEET 4 OF 12

47-051-02601

OVERALL PLAN SHEET INDEX



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NOTES:

1. THE AS-BUILT INFORMATION SHOWN HEREON REFLECTS FIELD DATA COLLECTED RELATING TO THE FINAL GRADING OF THE DISTURBED AREA AS OF JANUARY 11, 2018.
2. THE PROPERTY LINES SHOWN HEREON DO NOT REPRESENT A BOUNDARY SURVEY ON ANY OF THE PARCELS SHOWN. THE PROPERTY LINES ARE BASED ON COUNTY REAL ESTATE TAX MAPS, GIS INFORMATION AND DEEDS OF RECORD.
3. UTILITIES AND THEIR LOCATIONS AS SHOWN HEREON ARE BASED ON OBSERVABLE EVIDENCE OF THOSE VISIBLE, ABOVE-GROUND FACILITIES, FEATURES, AND MARKERS WHICH WERE FOUND ON THE SUBJECT PROPERTY AT THE TIME OF SURVEY PERFORMED BY NAVITUS ENGINEERING. NAVITUS ENGINEERING CANNOT GUARANTEE THE ACCURACY OF THE UTILITY MARKINGS PERFORMED BY OTHERS OR THAT ALL UTILITIES EXISTING WITHIN THE LIMITS OF THIS PLAN ARE SHOWN. ANY UTILITIES ENCOUNTERED SUBSEQUENT TO PLAN APPROVAL OR DURING CONSTRUCTION THAT ARE NOT SHOWN ON THE PLAN SHOULD BE REPORTED TO NAVITUS ENGINEERING AND EXPAND ENERGY CORPORATION.

LEGEND

EVACUATION GATHERING AREA	E
EVACUATION ROUTE	→

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OVERALL PLAN SHEET INDEX

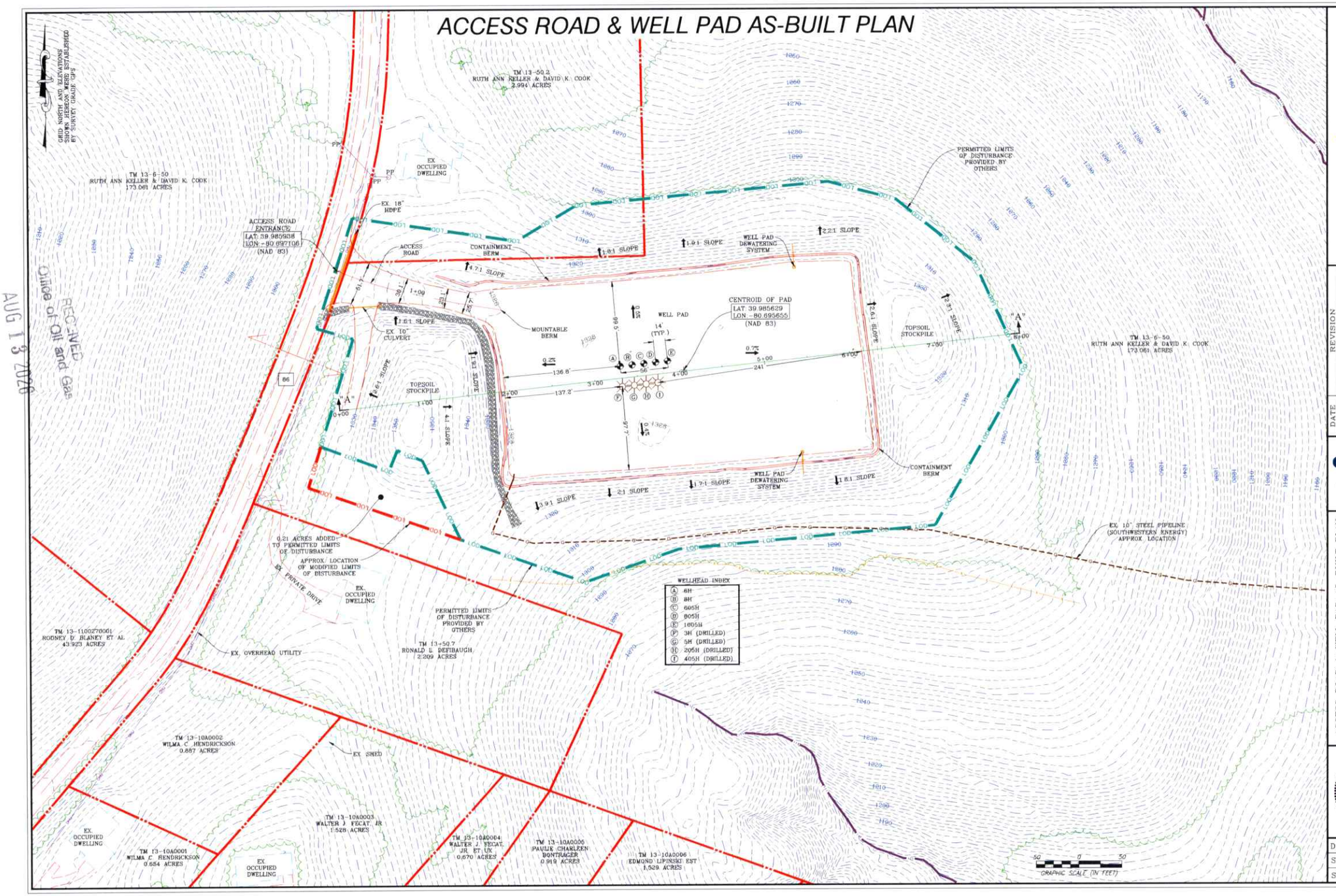
RUTH KELLER
WELL PAD
UNION DISTRICT
MARSHALL COUNTY, WEST VIRGINIA

STATE OF WEST VIRGINIA — REGISTERED PROFESSIONAL ENGINEER
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47-051-02601

ACCESS ROAD & WELL PAD AS-BUILT PLAN



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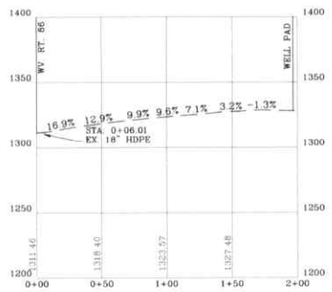
ACCESS ROAD & WELL PAD AS-BUILT PLAN
RUTH KELLER
WELL PAD
UNION DISTRICT
MARSHALL COUNTY, WEST VIRGINIA

CHRIS B. LINDSEY
REGISTERED
PROFESSIONAL ENGINEER
STATE OF WEST VIRGINIA
04/27/2026

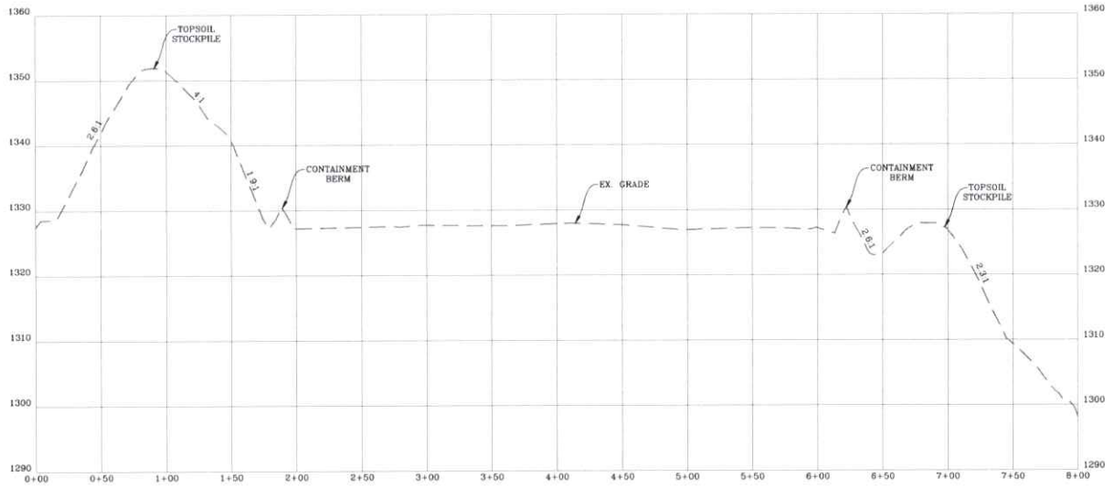
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SCALE: 1" = 50'
SHEET 6 OF 12

47-051-02601

ACCESS ROAD AS-BUILT PROFILES & WELL PAD AS-BUILT SECTIONS



ACCESS ROAD AS-BUILT PROFILE
SCALE: HORIZ 1" = 50' VERT 1" = 50'



WELL PAD AS-BUILT CROSS-SECTION "A-A"
SCALE: HORIZ 1" = 50' VERT 1" = 10'

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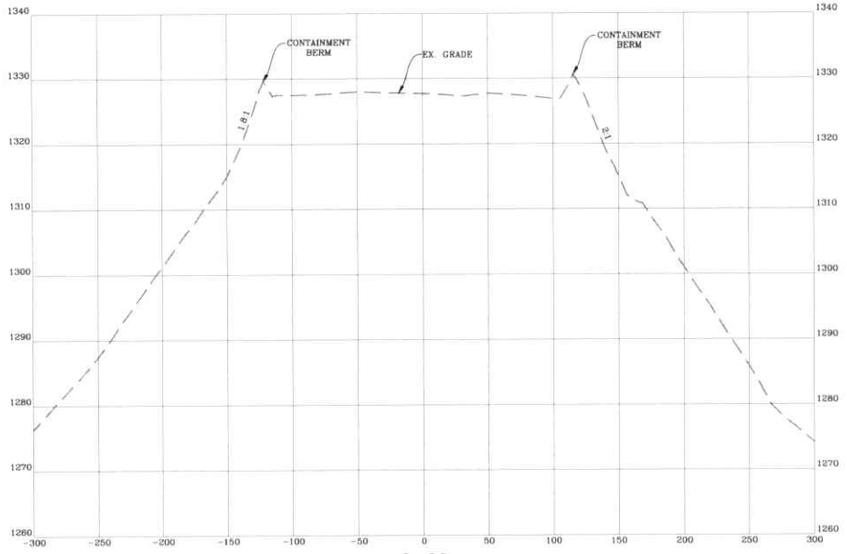
ACCESS ROAD AS-BUILT PROFILES & WELL PAD AS-BUILT SECTIONS
RUTH KELLER
WELL PAD
UNION DISTRICT
MARSHALL COUNTY, WEST VIRGINIA

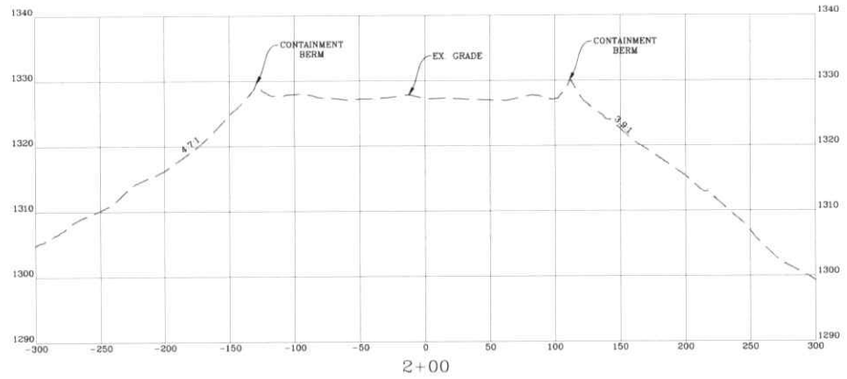
CRAIG B. LUNA
REGISTERED
PROFESSIONAL ENGINEER
STATE OF WEST VIRGINIA
04/29/2026

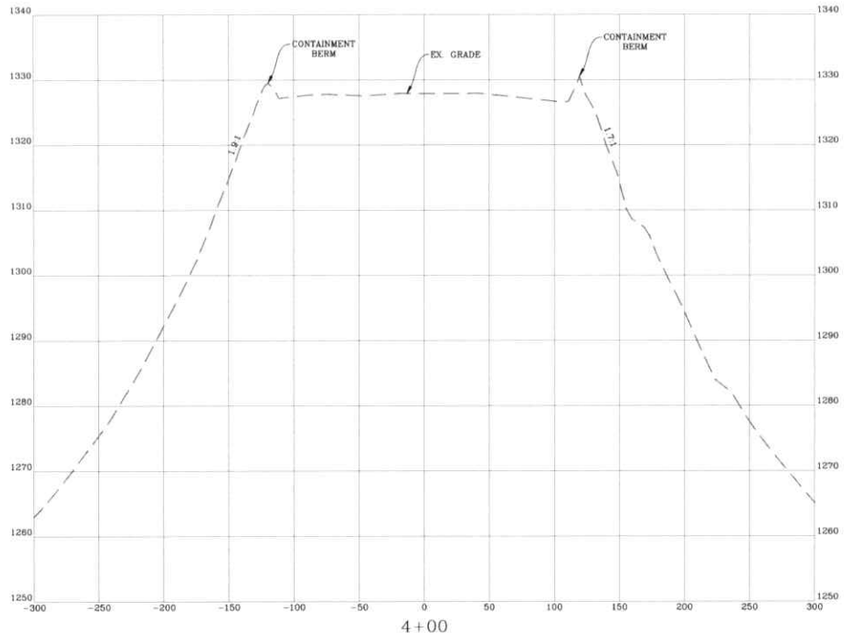
DATE: 02/05/2018
SCALE: AS SHOWN
SHEET 7 OF 12

47-051-02601

WELL PAD AS-BUILT SECTIONS







WELL PAD AS-BUILT CROSS-SECTIONS ALONG BASELINE "A-A"

SCALE: HORIZ. 1" = 50' VERT. 1" = 10'

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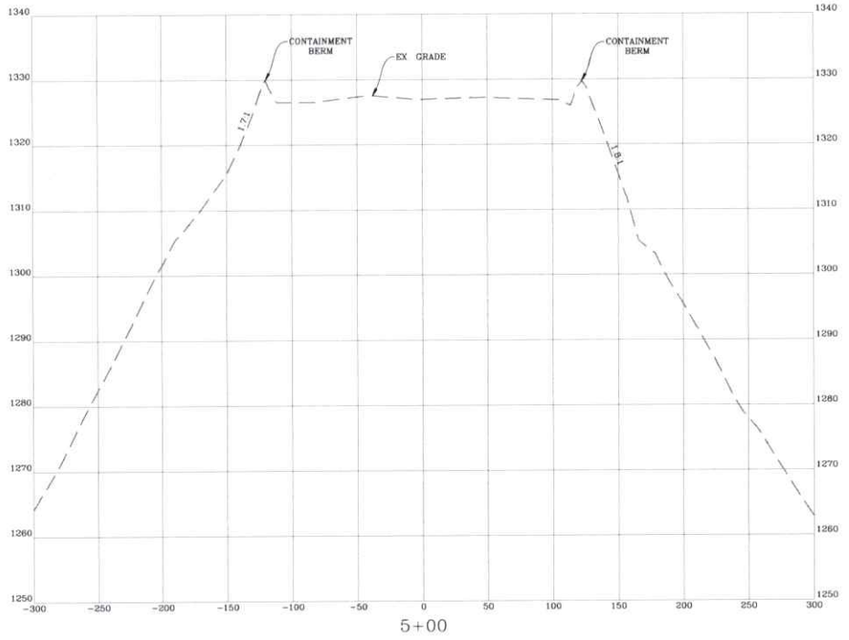
WELL PAD AS-BUILT SECTIONS
RUTH KELLER
WELL PAD
UNION DISTRICT
MARSHALL COUNTY, WEST VIRGINIA

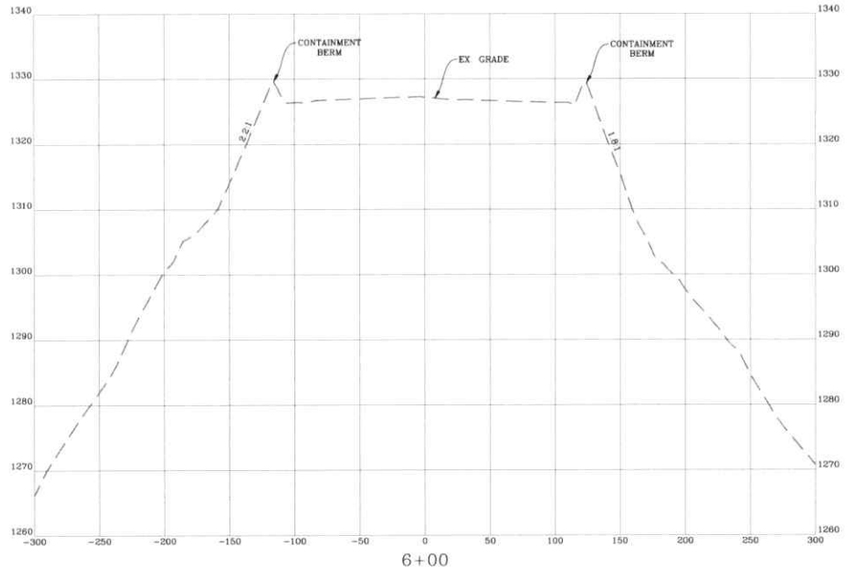


DATE: 02/05/2018
SCALE: AS SHOWN
SHEET 8 OF 12

47-051-02601

WELL PAD AS-BUILT SECTIONS





WELL PAD AS-BUILT CROSS-SECTIONS ALONG BASELINE "A-A"
SCALE HORIZ 1" = 50' VERT 1" = 10'

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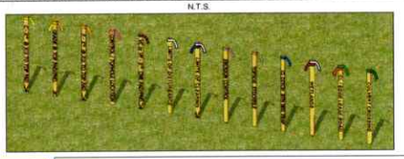
WELL PAD AS-BUILT SECTIONS
RUTH KELLER
WELL PAD
UNION DISTRICT
MARSHALL COUNTY, WEST VIRGINIA

STATE OF WEST VIRGINIA
CHRISTOPHER S. TOMEY
REGISTERED
15578
PROFESSIONAL ENGINEER
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SHEET 9 OF 12

STANDARD STAKEOUT RIBBON COLOR SCHEME

N.T.S.

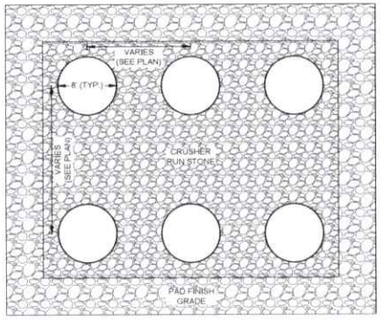


	YELLOW RIBBON YELLOW RIBBON USED TO INDICATE TOP OF CUTS (C)
	YELLOW & ORANGE RIBBON YELLOW AND ORANGE RIBBON USED TO INDICATE GRADE AT TOP OF PAD/POND/PIT
	ORANGE RIBBON ORANGE RIBBON USED TO INDICATE TOES OF FILLS (F)
	PINK RIBBON PINK RIBBON USED TO INDICATE TOP HOLE LOCATION
	PINK & BLACK STRIPE RIBBON PINK & BLACK STRIPE RIBBON USED TO INDICATE VERTICAL CUT (VC) AT PAD/POND/PIT CORNER OR EDGE PINK & BLACK STRIPE RIBBON USED TO INDICATE VERTICAL FILL (VF) AT PAD/POND/PIT CORNER OR EDGE
	WHITE RIBBON WHITE RIBBON USED TO INDICATE LIMITS OF DISTURBANCE
	WHITE & BLUE RIBBON WHITE & BLUE RIBBON USED TO INDICATE LIMITS OF CLEARING
	PINK & WHITE STRIPE RIBBON PINK & WHITE STRIPE RIBBON USED TO INDICATE EROSION AND SEDIMENT CONTROL STRUCTURES
	ORANGE & WHITE STRIPE RIBBON ORANGE & WHITE STRIPE RIBBON USED TO INDICATE TOPSOIL STOCKPILE LOCATIONS
	BLUE RIBBON BLUE RIBBON USED TO INDICATE CENTERLINE (CL) DITCH BLUE RIBBON USED TO INDICATE BOTTOM (BTM) SEDIMENT TRAPS
	PINK & WHITE RIBBON PINK & WHITE RIBBON USED TO INDICATE WETLANDS
	LIME GREEN & ORANGE RIBBON LIME GREEN & ORANGE RIBBON USED TO INDICATE CENTERLINE (CL) OR EDGE OF LEASE ROAD
	GREEN RIBBON GREEN RIBBON USED TO INDICATE CULVERT CROSSINGS

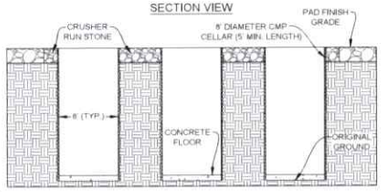
CELLAR DETAIL

N.T.S.

PLAN VIEW



SECTION VIEW

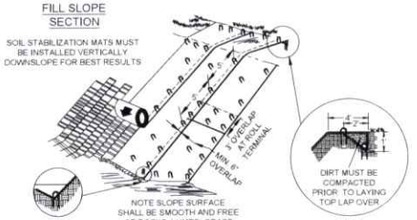


NOTES
1. ALL STONE PLACED ON PAD AND AROUND THE CELLARS SHALL BE COMPACTED.
2. CELLARS SHALL BE INSTALLED AND SURFACE GRADED TO PREVENT WATER COLLECTION IN CELLARS.

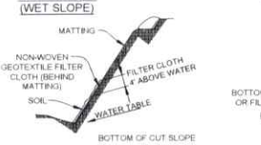
TYPICAL R.E.C.P. (ROLLED EROSION CONTROL PRODUCT) SLOPE INSTALLATION

N.T.S.

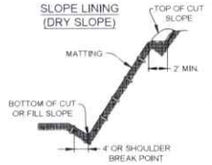
FILL SLOPE SECTION



SLOPE LINING (WET SLOPE)



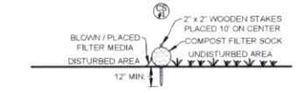
SLOPE LINING (DRY SLOPE)



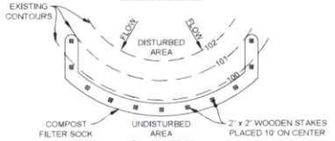
(MODIFIED) SOURCE: VDOT STANDARDS AND VIRGINIA DCR-DSWC

COMPOST FILTER SOCK

N.T.S.



SECTION VIEW



PLAN VIEW

ADAPTED FROM FILTREXX

SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1. COMPOST SHALL MEET THE FOLLOWING STANDARDS:

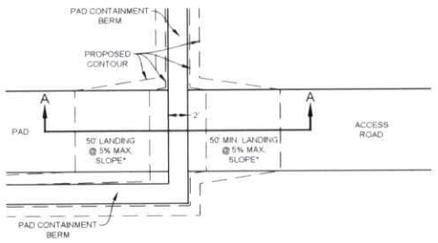
ORGANIC MATTER CONTENT	80%-100% (DRY WEIGHT BASIS)
ORGANIC PORTION	FIBROUS AND ELONGATED
pH	5.5-8.0
MOISTURE CONTENT	35%-55%
PARTICLE SIZE	98% PASS THROUGH 1" SCREEN
SOLUBLE SALT CONCENTRATION	5.0 dS MAXIMUM

NOTES
1. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8' UP THE SLOPE OR TO A HEIGHT EQUAL TO THE EFFECTIVE SOCK HEIGHT, WHICHEVER IS GREATER, AT 45° TO THE MAIN SOCK ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY SOCK SHALL NOT EXCEED MANUFACTURER'S MAXIMUM PERMISSIBLE SLOPE LENGTH.
2. TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.
3. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
4. SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
5. BIODEGRADABLE FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS. PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
6. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.
7. IN THE EVENT THE GROUND IS FROZEN, #5 REBAR WITH SAFETY CAPS SHALL BE USED INSTEAD OF WOODEN STAKES TO ANCHOR THE FILTER SOCK. ONCE THE GROUND THAWS, THE REBAR ANCHORS SHALL BE REMOVED AND REPLACED WITH 2" x 2" WOODEN STAKES AND INSTALLED AS SHOWN IN THE DETAIL ABOVE.

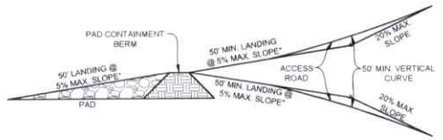
MOUNTABLE BERM

N.T.S.

PLAN VIEW



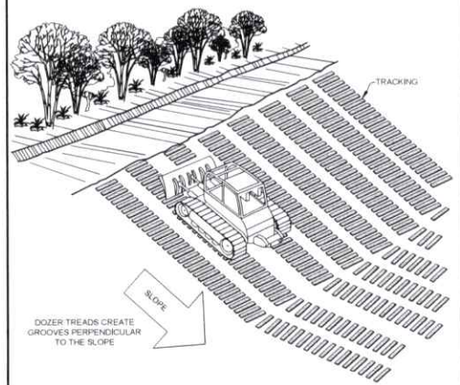
CROSS-SECTION A-A



NOTES
1. MOUNTABLE BERMS MAY BE STEEPER THAN 5% IF NOTED IN THE PLANS.

SLOPE TRACKING

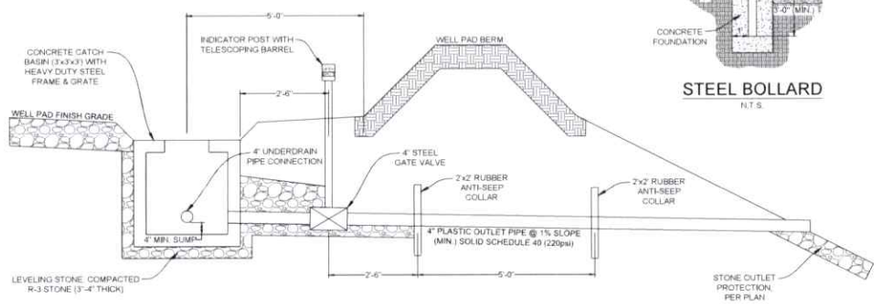
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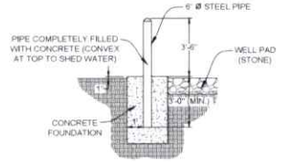


NOTES
1. TRACKING SLOPES ARE DONE BY RUNNING TRACKED MACHINERY UP AND DOWN THE SLOPE, LEAVING TREAD MARKS PARALLEL TO THE CONTOUR. IF A BULLDOZER IS USED, THE BLADE SHOULD BE UP.

WELL PAD UNDERDRAIN CATCH BASIN & OUTLET

N.T.S.





STEEL BOLLARD

N.T.S.

NOTES
1. UNDERDRAIN INFLOW INVERT ELEVATIONS SHALL BE ABOVE THE TOP OF THE DISCHARGE TO PREVENT BACKFLOW INTO THE UNDERDRAIN.
2. TOP OF CONCRETE CATCH BASIN SHALL BE SET BELOW THE FINISH STONE GRADE OF THE WELL PAD TO ENSURE SURFACE WATER CAN FLOW INTO THE BASIN.
3. STEEL GATE VALVE, INDICATOR POST WITH TELESCOPING BARREL, AND ANTI-SEEP COLLARS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
4. LOCATION AND HEIGHT OF INDICATOR POST SHALL BE FIELD VERIFIED FOR ACCESSIBILITY BY OWNER PRIOR TO INSTALLATION.
5. THERE SHALL BE NO DISCHARGE THROUGH WELL PAD OUTLETS FROM DRILL PAD DURING DRILLING OR COMPLETIONS ACTIVITIES.
6. ALL GATE VALVES SHALL BE CLOSED DURING WELL PAD DRILLING OR COMPLETIONS ACTIVITIES.
7. CATCH BASIN SHALL BE PROTECTED BY STEEL BOLLARDS AS SHOWN ON THE PLAN AND INSTALLED PER THE STEEL BOLLARD DETAIL.

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CONSTRUCTION DETAILS
RUTH KELLER
WELL PAD
UNION DISTRICT
MARSHALL COUNTY, WEST VIRGINIA

CHRIS B. LINDSEY REGISTERED PROFESSIONAL ENGINEER STATE OF WEST VIRGINIA
04/29/2026

DATE: 02/05/2018
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REVEGETATION

TAKEN FROM THE
WEST VIRGINIA EROSION AND SEDIMENT CONTROL FIELD MANUAL
WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS
CHARLESTON, W.VA.
SECTION IV

TEMPORARY SEEDING

a. GENERAL CONDITIONS WHERE PRACTICE APPLIES
WHERE EXPOSED SOIL SURFACES ARE NOT TO BE FINE-GRADED OR WORKED FOR PERIODS LONGER THAN 21 DAYS, TEMPORARY VEGETATIVE COVER WITH SEDIMENT CONTROLS MUST BE ESTABLISHED WHERE RUNOFF WILL GO DIRECTLY INTO A STREAM, IMMEDIATELY UPON CONSTRUCTION OF THE SITE (SITE INCLUDES ROAD AND LOCATION). VEGETATION MUST BE ESTABLISHED ON ROAD BANK AND LOCATION SLOPES. A PERMANENT VEGETATIVE COVER SHALL BE APPLIED TO AREAS THAT WILL BE LEFT UN-WORKED FOR A PERIOD OF MORE THAN SIX MONTHS.

b. SEED MIXTURES AND PLANTING DATES
REFER TO TABLES IV-2 THROUGH IV-4 FOR RECOMMENDED DATES TO ESTABLISH VEGETATIVE COVER AND THE APPROVED LISTS OF TEMPORARY AND PERMANENT PLANT SPECIES AND PLANTING RATES. TABLE IV-3 GIVES RECOMMENDED TYPES OF TEMPORARY VEGETATION, RATES OF APPLICATION, AND OPTIMUM SEEDING DATES. IN SITUATIONS WHERE ANOTHER COVER IS DESIRED, CONTACT THE LOCAL SOIL CONSERVATION DISTRICT FOR SEEDING RECOMMENDATIONS.

c. SEED APPLICATION
APPLY SEED BY BROADCASTING, DRILLING, OR BY HYDROSEED ACCORDING TO THE RATES INDICATED IN TABLE IV-3. PERFORM ALL PLANTING OPERATIONS AT RIGHT ANGLES TO THE SLOPE. NECESSARY SITE PREPARATION AND ROUGHENING OF THE SOIL SURFACE SHOULD BE DONE JUST PRIOR TO SEEDING. SEEDBED PREPARATION MAY NOT BE REQUIRED ON NEWLY DISTURBED AREAS.

PERMANENT SEEDING

a. GENERAL
PERMANENT VEGETATIVE COVER WILL BE ESTABLISHED WHERE NO FURTHER SOIL DISTURBANCE IS ANTICIPATED OR NEEDED. SOIL FERTILITY AND PH LEVEL SHOULD BE TESTED AND ADJUSTED ACCORDING TO SEED SPECIES PLANTED. PLANTING OF PERMANENT VEGETATIVE COVERS MUST BE PERFORMED ON ALL DISTURBED AREAS AFTER COMPLETION OF THE DRILLING PROCESS. ANY SITE THAT CONTAINS SIGNIFICANT AMOUNTS OF TOPSOIL SHALL HAVE THE TOPSOIL REMOVED AND STOCKPILED WHEN FEASIBLE. TOPSOIL SHOULD NOT BE ADDED TO SLOPES STEEPER THAN 2:1 UNLESS A GOOD BONDING TO THE SUB-LAYER CAN BE ACHIEVED. AFTER PROPER GRADING AND SEEDBED PREPARATION, THE VEGETATION WILL REESTABLISH GROUND COVER FOR THE CONTROL OF SURFACE WATER RUNOFF EROSION.
ALL REQUIRED SEEDBED PREPARATION AND LOOSENING OF SOIL BY DISKING OR DOZER TRACKING SHOULD BE PERFORMED JUST PRIOR TO SEEDING. IF SEEDBED PREPARATION IS NOT FEASIBLE, 50% MORE SEED SHALL BE ADDED TO THE RECOMMENDED RATES SHOWN IN TABLES IV-3 AND IV-4.
WHEN HYDROSEEDING, SEEDBED PREPARATION MAY NOT BE NECESSARY IF ADEQUATE SITE PREPARATION WAS PERFORMED. INCORPORATE THE APPROPRIATE AMOUNT OF LIME AND/OR FERTILIZER IN THE SLURRY MIX WHEN HYDROSEEDING.
WHEN HYDROSEEDING, FIRST MIX THE LIME, FERTILIZER, AND HYDRO-MULCH IN THE RECOMMENDED AMOUNT OF WATER. MIX THE SEED AND INOCULANTS TOGETHER WITHIN ONE HOUR PRIOR TO PLANTING, AND ADD TO THE SLURRY JUST BEFORE SEEDING. APPLY THE SLURRY UNIFORMLY OVER THE PREPARED SITE. ASSURE THAT AGITATION IS CONTINUOUS THROUGHOUT THE SEEDING OPERATION AND THE MIX IS APPLIED WITHIN ONE HOUR OF INITIAL MIXING.

b. LIME AND FERTILIZER
1. LIME SHALL BE APPLIED TO ALL PERMANENT SEEDINGS. THE PH OF THE SOIL IS TO BE DETERMINED AND LIME APPLIED ACCORDINGLY. ONCE THE PH IS KNOWN, SELECT THE AMOUNT OF LIME TO BE APPLIED FROM TABLE IV-5.
2. FERTILIZER SHALL BE APPLIED IN ALL PERMANENT SEEDINGS. APPLY THE EQUIVALENT FOR 500 LBS. MINIMUM 10-20-20 FERTILIZER PER ACRE OR USE THE AMOUNT OF FERTILIZER AND LIME RECOMMENDED BY A CERTIFIED SOIL TEST.
3. APPLICATION: FOR BEST RESULTS AND MAXIMUM BENEFITS, THE LIME AND FERTILIZER ARE TO BE APPLIED AT THE TIME OF SEEDBED PREPARATION.

c. PERMANENT SEED MIXTURES
PLANNERS SHOULD TAKE INTO CONSIDERATION THE SPECIES MAKEUP OF THE EXISTING PASTURE AND THE LANDOWNER'S FUTURE PASTURE MANAGEMENT PLANS WHEN RECOMMENDING SEED MIXTURES. SELECTION FROM TABLES IV-4A AND IV-4B, PERMANENT SEEDING MIXTURES SUITABLE FOR ESTABLISHMENT IN WEST VIRGINIA.
NOTES:
1. ALL LEGUMES MUST BE PLANTED WITH THE PROPER INOCULANTS PRIOR TO SEEDING.
2. 'LATHCO' FLATPEA IS POTENTIALLY POISONOUS TO SOME LIVESTOCK.
3. ONLY ENDOPHYTE FREE VARIETIES OF TALL FESCUE SHOULD BE USED. TALL FESCUE AND CROWNVETCH ARE ALSO VERY INVASIVE SPECIES. NON-NATIVE TO WV.
4. FOR UNPREPARED SEEDBEDS OR SEEDING OUTSIDE THE OPTIMUM TIMEFRAMES, ADD 50% MORE SEED TO THE SPECIFIED RATE. MIXTURES IN TABLE IV-4B ARE MORE WILDLIFE AND FARM FRIENDLY. THOSE LISTED IN BOLD ARE SUITABLE FOR USE IN SHADED WOODLAND SETTINGS. MIXTURES IN ITALIC ARE SUITABLE FOR USE IN FILTER STRIPS.

d. SEEDING FOR WILDLIFE HABITAT
CONSIDER THE USE OF THE NATIVE PLANTS OR LOCALLY ADAPTED PLANTS WHEN SELECTING COVER TYPES AND SPECIES FOR WILDLIFE HABITAT. WILDLIFE FRIENDLY SPECIES OR MIXES THAT HAVE MULTIPLE VALUES SHOULD BE CONSIDERED. SEE WILDLIFE FRIENDLY SPECIES/MIXTURES IN TABLE IV-4B. CONSIDER SELECTING NO OR LOW MAINTENANCE LONG-LIVED PLANTS ADAPTABLE TO SITES WHICH MAY BE DIFFICULT TO MAINTAIN WITH EQUIPMENT.

MULCHING

a. GENERAL ORGANIC MULCHES
THE APPLICATION OF STRAW, HAY, OR OTHER SUITABLE MATERIALS TO THE SOIL SURFACE TO PREVENT EROSION. STRAW MADE FROM WHEAT OR OATS IS THE PREFERRED MULCH. THE USE OF HAY IS PERMISSIBLE, BUT NOT ENCOURAGED DUE TO THE RISK OF SPREADING INVASIVE SPECIES. MULCH MUST BE APPLIED TO ALL TEMPORARY AND PERMANENT SEEDING ON ALL DISTURBED AREAS, DEPENDING ON SITE CONDITIONS. IN CRITICAL AREAS SUCH AS WATERWAYS OR STEEP SLOPES, ADDITIONAL OR SUBSTITUTE SOIL PROTECTIVE MEASURES MAY BE USED IF DEEMED NECESSARY. EXAMPLES INCLUDE JUTE MESH AND SOIL STABILIZATION BLANKETS OR EROSION CONTROL MATTING.
AREAS THAT HAVE BEEN TEMPORARILY OR PERMANENTLY SEEDED SHOULD BE MULCHED IMMEDIATELY FOLLOWING SEEDING. MULCHES CONSERVE DESIRABLE SOIL PROPERTIES, REDUCE SOIL MOISTURE LOSS, PREVENT CRUSTING AND SEALING OF THE SOIL SURFACE, AND PROVIDE A SUITABLE MICROCLIMATE FOR SEED GERMINATION.
AREAS THAT CANNOT BE SEEDED BECAUSE OF THE SEASON SHOULD BE MULCHED TO PROVIDE SOME PROTECTION TO THE SOIL SURFACE. AN ORGANIC MULCH, STRAW, OR HAY SHOULD BE USED AND THE AREA THEN SEEDED AS SOON AS WEATHER OR SEASONAL CONDITIONS PERMIT. DO NOT USE FIBER MULCH (CELLULOSE-HYDROSEED) ALONE FOR THIS PRACTICE, AT NORMAL APPLICATION RATES IT WILL NOT GIVE THE SOIL PROTECTION OF OTHER TYPES OF MULCH.
WOOD CELLULOSE FIBER MULCH IS USED IN HYDROSEEDING OPERATIONS AND APPLIED AS PART OF THE SLURRY. IT CREATES THE BEST SEED-SOIL CONTACT WHEN APPLIED OVER THE TOP OF (AS A SEPARATE OPERATION) NEWLY SEEDED AREAS. FIBER MULCH DOES NOT ALONE PROVIDE SUFFICIENT PROTECTION ON HIGHLY ERODIBLE SOILS, OR DURING LESS THAN FAVORABLE GROWING CONDITIONS. FIBER MULCH SHOULD NOT BE USED ALONE DURING THE DRY SUMMER MONTHS OR WHEN USED FOR LATE FALL MULCH COVER. USE STRAW MULCH DURING THESE PERIODS AND FIBER MULCH MAY BE USED TO TACK (ANCHOR) THE STRAW MULCH. FIBER MULCH IS WELL SUITED FOR STEEP SLOPES, CRITICAL AREAS, AND AREAS SUSCEPTIBLE TO WIND.

b. CHEMICAL MULCHES, SOIL BINDERS, AND TACKIFIERS
A WIDE RANGE OF SYNTHETIC SPRAY ON MATERIALS ARE MARKETED TO STABILIZE AND PROTECT THE SOIL SURFACE. THESE ARE MIXED WITH WATER AND SPRAYED OVER THE MULCH AND TO THE SOIL. THEY MAY BE USED ALONE IN SOME CASES AS TEMPORARY STABILIZERS, OR IN CONJUNCTION WITH FIBER MULCH, STRAW, OR HAY.
WHEN USED ALONE, MOST CHEMICAL MULCHES DO NOT HAVE THE CAPABILITY TO INSULATE THE SOIL OR RETAIN SOIL MOISTURE THAT ORGANIC MULCHES HAVE.

c. SPECIFICATIONS
FROM TABLE IV-6, SELECT THE TYPE OF MULCH AND RATE OF APPLICATION THAT WILL BEST SUIT THE CONDITIONS AT THE SITE.

d. ANCHORING
DEPENDING ON THE FIELD SITUATION, MULCH MAY NOT STAY IN PLACE BECAUSE OF WIND ACTION OR RAPID WATER RUNOFF. IN SUCH CASES, MULCH IS TO BE ANCHORED MECHANICALLY OR WITH MULCH NETTING.
1. MECHANICAL ANCHORING
APPLY MULCH AND PULL MULCH ANCHORING TOOL OVER THE MULCH. WHEN A DISK IS USED, SET THE DISK STRAIGHT AND PULL ACROSS SLOPE. MULCH MATERIAL SHOULD BE TUCKED INTO THE SOIL ABOUT 3".
2. MULCH NETTING
FOLLOW MANUFACTURER'S RECOMMENDATION WHEN POSITIONING AND STAPLING THE MULCH NETTING IN THE SOIL.

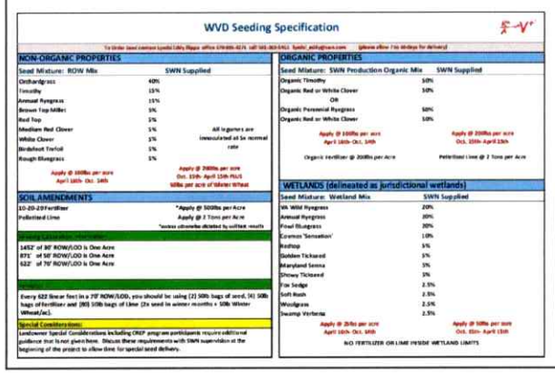


Table IV-2
Acceptable Fertilization Recommendation

Species	N (lbs/ac)	P2O5 (lbs/ac)	Example Rec. (per acre)
Cool Season Grass	40	80	400 lbs. 10-20-20
CS Grass & Legume	30	60	300 lbs. 10-20-20
Temporary Cover	40	40	200 lbs. 19-19-19

Table IV-3
Temporary Cover

Species	Seeding Rate (lbs/acre)	Optimum Seeding Dates	Drainage	pH Range
Annual Ryegrass	40	3/1 - 6/15 or 8/15 - 9/15	Well - Poorly	5.5 - 7.5
Field Bromegrass	40	3/1 - 6/15 or 8/15 - 9/15	Well - Mod. Well	6.0 - 7.0
Spring Oats	96	3/1 - 6/15	Well - Poorly	5.5 - 7.0
Sundangrass	40	5/15 - 8/15	Well - Poorly	5.5 - 7.5
Winter Rye	168	8/15 - 10/15	Well - Poorly	5.5 - 7.5
Winter Wheat	180	8/15 - 11/15	Well - Mod. Well	5.5 - 7.0
Japanese Millet	30	6/15 - 8/15	Well	4.5 - 7.0
Redtop	5	3/1 - 6/15	Well	4.0 - 7.5
Annual Ryegrass	26	3/1 - 6/15	Well - Poorly	5.5 - 7.5
Spring Oats	64	3/1 - 6/15	Well - Poorly	5.5 - 7.5

NOTE: *These rates should be increased by 50% if planted April 15 - August 1 and October 1 - March 1.*

Table IV-4A
Permanent Seeding Mixture

Species/Mixture	Seeding Rate (lbs/acre)	Soil Drainage preference	pH Range
Crownvetch / Tall Fescue	10 - 15 / 30	Well - Mod. Well	5.0 - 7.5
Crownvetch / Perennial Ryegrass	**10 - 15 / 20**	**Well - Mod. Well**	**5.0 - 7.5**
Flatpea or Perennial Pea / Tall Fescue	**20 / 15**	**Well - Mod. Well**	**4.0 - 8.0**
Ladino Clover / Sereicia Lespedeza / Tall Fescue	30 / 25 / 2	Well - Mod. Well	4.5 - 7.5
Tall Fescue / Ladino Clover / Redtop	*40 / 3 / 3*	*Well - Mod. Well*	*5.0 - 7.5*
Crownvetch / Tall Fescue / Redtop	10 / 20 / 3	Well - Mod. Well	5.0 - 7.5
Tall Fescue / Birdsfoot Trefoil / Redtop	40 / 10 / 3	Well - Mod. Well	5.0 - 7.5
Sereicia Lespedeza / Tall Fescue / Redtop	25 / 30 / 3	Well - Mod. Well	4.5 - 7.5
Redtop / Tall Fescue / Creeping Red	30 / 3 / 50	Well - Mod. Well	5.0 - 7.5
Tall Fescue	*50*	*Well - Poorly*	*4.5 - 7.5*
Perennial Ryegrass / Tall Fescue / Lathco Flatpea *	**10 / 15 / 20**	**Well - Poorly**	**5.8 - 8.0**

** 'Lathco' Flatpea is potentially poisonous to some livestock. All legumes should be planted with proper inoculants prior to seeding. For unprepared seedbeds or seeding outside the optimum timeframe, add 50% more seed to the specified rate.*
Mixtures listed in bold are suitable for use in shaded woodland settings; those in italics are suitable for use in filter strips.

Table IV-4B
Wildlife and Farm Friendly Seed Mixtures

Species/Mixture	Seeding Rate (lbs/acre)	Soil Drainage preference	pH Range
KY Bluegrass / Redtop / Ladino Clover or Birdsfoot Trefoil	20 / 3 / 2 / 10	Well - Mod. Well	5.5 - 7.5
Timothy / Alfalfa	**5 / 12**	**Well - Mod. Well**	**6.5 - 8.0**
Timothy / Birdsfoot Trefoil	5 / 8	Well - Poorly	5.5 - 7.5
Orchardgrass / Ladino Clover / Redtop	*10 / 2 / 3*	*Well - Mod. Well*	*5.5 - 7.5*
Orchardgrass / Ladino Clover	10 / 2	Well - Mod. Well	5.5 - 7.5
Orchardgrass / Perennial Ryegrass	*20 / 10*	*Well - Mod. Well*	*5.5 - 7.5*
Creeping Red Fescue / Perennial Ryegrass	**30 / 10**	**Well - Mod. Well**	**5.5 - 7.5**
Orchardgrass or KY Bluegrass	**20**	**Well - Mod. Well**	**6.0 - 7.5**
Birdsfoot Trefoil / Redtop / Orchardgrass	10 / 5 / 20	Well - Mod. Well	5.5 - 7.5
Lathco Flatpea */ Perennial Ryegrass	**30 / 20**	**Well - Mod. Well**	**5.5 - 7.5**
Lathco Flatpea */ Orchardgrass	30 / 20	Well - Mod. Well	5.5 - 7.5

** 'Lathco' Flatpea is potentially poisonous to some livestock. All legumes should be planted with proper inoculants prior to seeding. For unprepared seedbeds or seeding outside the optimum timeframe, add 50% more seed to the specified rate.*
Mixtures listed in bold are suitable for use in shaded woodland settings; those in italics are suitable for use in filter strips.

Table IV-5
Lime and Fertilizer Application Table

pH of Soil	Lime in Tons per Acre	Fertilizer, Lbs. per Acre (10-20-20 or Equivalent)
Above 6.0	2	500
5.0 to 6.0	3	500
Below 5.0	4	500

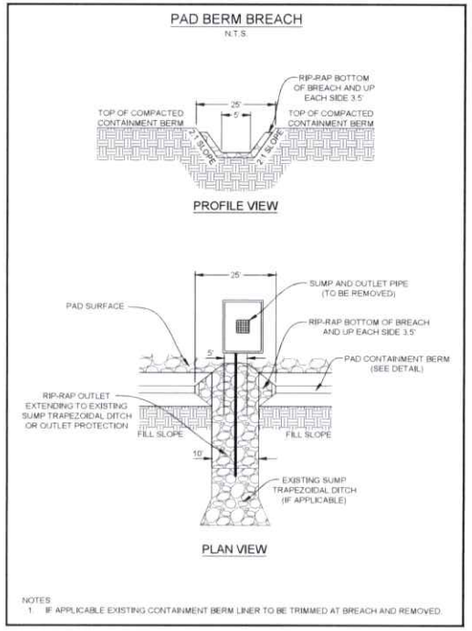
The pH can be determined with a portable pH testing kit or by sending the soil samples to a soil testing laboratory. When 4 tons of lime per acre are applied it must be incorporated into the soil by disking, backblading or tracking up and down the slope.

Table IV-6
Mulch Materials Rates and Uses

Material	Minimum Rates per acre	Coverage	Remarks
Hay or Straw	2 to 3 Tons (100 to 150 bales)	Cover 75% to 90% of Surface	Subject to wind blowing or washing unless tied down
Wood Fiber Pulp Fiber Wood - Cellulose Recirculated Paper	1000 to 1500 lbs	Cover all Disturbed Areas	For hydroseeding

Table IV-1
Recommended Seeding Dates

Planting Dates	Suitability
March 1 - April 15 and August 1 - October 1	Best Seeding Periods
April 15 - August 1	HIGH RISK - moisture stress likely
October 1 - December 1	HIGH RISK - freeze damage to young seedlings
December 1 - March 1	Good seeding period. Dormant seeding



SITE RECLAMATION NARRATIVE:

POST CONSTRUCTION – THE CONSTRUCTION SITE SHALL BE STABILIZED AS SOON AS POSSIBLE AFTER COMPLETION. THE ESTABLISHMENT OF FINAL COVER MUST BE INITIATED NO LATER THAN 7 DAYS AFTER REACHING FINAL GRADE. THE ACCESS ROADS AND WELL PAD ARE TO BE MAINTAINED THROUGHOUT THE LIFE OF THE FACILITY. ALL CULVERTS, ROADSIDE DITCHES, BROAD-BASED DIPS, DIVERSION DITCHES, ETC. MUST BE MAINTAINED IN PROPER WORKING ORDER. ANY SOIL THAT IS DISTURBED ALONG THE ACCESS ROAD OR WELL PAD MUST BE REVEGETATED ACCORDING TO THESE PLANS AND THE WVDEP OFFICE OF OIL AND GAS FIELD MANUAL. IF NECESSARY, ALL TEMPORARY BMP MEASURES CAN BE REMOVED AFTER THE SITE IS PERMANENTLY STABILIZED AND APPROVAL IS RECEIVED FROM THE WVDEP. ANY AREAS DISTURBED BY REMOVAL OF THE BMP'S SHALL BE REPAIRED, STABILIZED, AND PERMANENTLY SEEDED.

POST USE – WITHIN 6 MONTHS OF THE COMPLETION OF THE FINAL HORIZONTAL WELL ON THE PAD OR THE EXPIRATION OF THE FIVE-YEAR MAXIMUM AGGREGATE PARTIAL RECLAMATION PERIOD, WHICHEVER OCCURS FIRST, THE OPERATOR SHALL COMPLETE FINAL RECLAMATION OF THE WELL PAD AS SET FORTH IN THESE PLANS. ALL EXISTING BMP'S SHOWN SHALL BE INSPECTED FOR DAMAGE AND REPLACED AS NECESSARY BEFORE RECLAMATION CAN BEGIN. DRILL CUTTINGS, DRILLING MUD, AND LINERS FOR WELLS PERMITTED UNDER WV CODE §35-4-21, §22-6A, AND CRS 35-8, MUST BE REMOVED FROM SITE AND DISPOSED OF AT AN APPROVED SOLID WASTE FACILITY OR, IF THE SURFACE OWNER CONSENTS, THE DRILL CUTTINGS AND ASSOCIATED DRILLING MUD MAY BE MANAGED ON SITE IN A MANNER APPROVED BY THE SECRETARY. THE SITE SHALL BE REGRADED AS INDICATED ON THE PLANS. STOCKPILED TOPSOIL SHOULD BE RE-SPREAD OVER DISTURBED AREA. TOPSOIL SHOULD NOT BE ADDED TO SLOPES STEEPER THAN 2:1 UNLESS GOOD BONDING TO THE SUB-SOIL CAN BE ACHIEVED. UPON COMPLETION OF THE GRADING, THE SITE SHALL BE SEEDED AND MULCHED PER THE REVEGETATION DETAILS. ESTABLISHMENT OF FINAL STABILIZATION MUST BE INITIATED NO LATER THAN 7 DAYS AFTER REACHING FINAL GRADE. FINAL STABILIZATION MEANS THAT ALL SOIL-DISTURBING ACTIVITIES ARE COMPLETED, AND THAT EITHER A PERMANENT VEGETATIVE COVER WITH A DENSITY OF 70% OR GREATER HAS BEEN ESTABLISHED OR THAT THE SURFACE HAS BEEN STABILIZED BY HARD COVER SUCH AS GRAVEL AND PAVEMENT ACCESS ROADS OR BUILDINGS. IT SHOULD BE NOTED THAT THE 70% REQUIREMENT REFERS TO THE TOTAL AREA VEGETATED AND NOT JUST A PERCENT OF THE SITE.

NOTES:

1. DURING SITE RECLAMATION ALL FILL AREAS SHALL BE COMPACTED IN 12" MAXIMUM LIFT THICKNESS WITH A VIBRATING SHEEPSFOOT ROLLER TO 95% COMPACTION PER STANDARD PROCTOR DENSITY, ASTM D-698. MOISTURE CONTENT WILL BE CONTROLLED IN ACCORDANCE WITH THE STANDARD PROCTOR TEST (ASTM-D698) RESULTS.

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

REVISION	DATE
REVISED PER COMMENTS	04/29/2026

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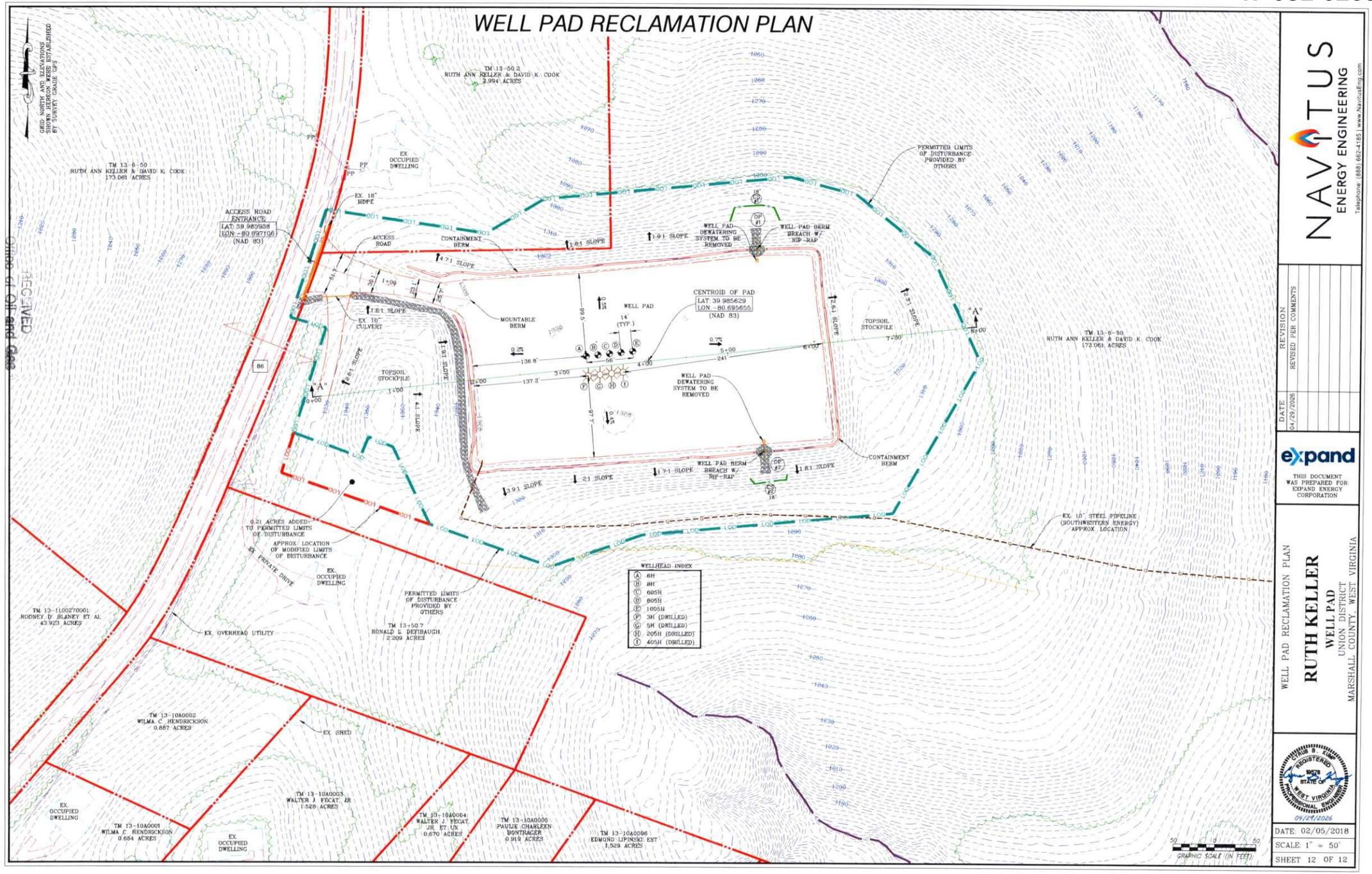
CONSTRUCTION DETAILS
RUTH KELLER
WELL PAD
UNION DISTRICT
MARSHALL COUNTY, WEST VIRGINIA

CHRIS B. KING
PS 978
REGISTERED
STATE OF
WEST VIRGINIA
PROFESSIONAL ENGINEER
04/29/2026

DATE: 02/05/2018
SCALE: AS SHOWN
SHEET 11 OF 12

47-051-02601

WELL PAD RECLAMATION PLAN



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DATE	REVISION
04/29/2026	REVISED PER COMMENTS

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WELL PAD RECLAMATION PLAN
RUTH KELLER
WELL PAD
UNION DISTRICT
MARSHALL COUNTY, WEST VIRGINIA

CHRIS B. KIMES
REGISTERED
STATE OF WEST VIRGINIA
PROFESSIONAL ENGINEER
04/29/2026

DATE: 02/05/2018
SCALE: 1" = 50'
SHEET 12 OF 12

RECEIVED
AUG 13 2026
WV Department of Environmental Protection
Office of Oil and Gas

Brittany Woody
Senior Regulatory Analyst

August 12, 2026

#6040432
4/29/26 (VOID AFTER 90 DAYS)
$15,150.00

Department of Environmental Protection
Office of Oil & Gas
601 57th Street
Charleston, WV 25304

RE: Proposed New Well: Expedited: **Ruth Keller MSH 6H** **Ruth Keller MSH 8H**
Ruth Keller MSH 605H **Ruth Keller MSH 805H**
Ruth Keller MSH 1005H

Dear Mr. Brewer:

Enclosed please find the Well Work Permit Applications for the above captioned wells. These wells are situated on Keller's property, in Union District, Marshall County, West Virginia.

If you have any questions or desire additional information, please call me at 304-209-5688.

Sincerely,

Brittany Woody

Brittany Woody
Senior Regulatory Analyst
Expand Energy

RECEIVED
Office of Oil and Gas
AUG 13 2026
WV Department of
Environmental Protection

09/18/2026