



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

Thursday, June 25, 2026
WELL WORK PERMIT
Horizontal 6A / New Drill

EXPAND OPERATING LLC
6100 N WESTERN AVE.

OKLAHOMA CITY, OK 73118

Re: Permit approval for RAYLE COAL UP OHI 104H
47-069-00386-00-00

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

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

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

A handwritten signature in black ink, reading "H. Jason Harmon".

H. Jason Harmon
Chief

Operator's Well Number: RAYLE COAL UP OHI 104H
Farm Name: DIANE HERBERT
U.S. WELL NUMBER: 47-069-00386-00-00
Horizontal 6A New Drill
Date Issued: 6/25/2026

PERMIT CONDITIONS

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

CONDITIONS

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

06/26/2026

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

- 1) Well Operator: Expand Operating LLC 494533012 069-Ohio 5-Richland 641-Tiltonsville
Operator ID County District Quadrangle
- 2) Operator's Well Number: Rayle Coal UP OHI 104H Well Pad Name: Rayle Coal OHI Pad
- 3) Farm Name/Surface Owner: Diane Herbert Public Road Access: Girtys Point Road
- 4) Elevation, current ground: 1064' Elevation, proposed post-construction: 1064'
- 5) Well Type (a) Gas ☒ Oil ☐ Underground Storage ☐
Other ☐
(b) If Gas Shallow ☐ Deep ☒
Horizontal ☒
- 6) Existing Pad: Yes or No Yes
- 7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Target Formation- Utica, Up-Dip well to the North, Target Top TVD- 10493', Target Base TVD- 10761', Anticipated Thickness- 268', Associated Pressure- 8657
- 8) Proposed Total Vertical Depth: 10,688'
- 9) Formation at Total Vertical Depth: Point Pleasant
- 10) Proposed Total Measured Depth: 35,052'
- 11) Proposed Horizontal Leg Length: 23,756.22'
- 12) Approximate Fresh Water Strata Depths: 290'
- 13) Method to Determine Fresh Water Depths: Depth reported from nearby well
- 14) Approximate Saltwater Depths: 938' salinity profile
- 15) Approximate Coal Seam Depths: 250'
- 16) Approximate Depth to Possible Void (coal mine, karst, other): Possible Void 250'
- 17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes ☐ No ☒
- (a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

4706900386

WW-6B
(04/15)

API NO. 47- 069 -
OPERATOR WELL NO. Rayle Coal UP OHI 104H
Well Pad Name: Rayle Coal OHI Pad

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	26	New	A252	102.7#	0'	136' ✓	CTS
Fresh Water/Surface	18.625	New	J-55	87.5#	0'	340' ✓	265 sx/CTS
Intermediate 1	13.375	New	J-55	54.5#	0	1677' ✓	1260 sx/CTS ✓
Intermediate 2	9.625	New	P-110 HP	43.5#	0	9427'	3001 sx/CTS
Production Vertical	6	New	P-110 HP	26#	0	9427'	
Production	5.5	new	P-110 HP	23#	9427'	35,052' ✓	Tail 7896sx/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	26	30	0.750	1780	81	Class A ✓	1.18/100% Excess
Fresh Water	18.625	22	0.435	2250	177	Class A	1.18/100% Excess
Intermediate 1	13.375	17.5	0.380	2740	726	Class A	1.18/30% Excess
Intermediate 2	9.625	12.25	0.435	9900	6127	Class A	1.20/15% Excess
Production Vertical	6	8 3/4 - 8 1/2	0.470	16330	9918	Class A	1.26/15% Excess
Production	5.5	8 3/4 - 8 1/2	0.415	15190 ✓	9918	Class A ✓	1.26/15% Excess
Liners							

PACKERS

Kind:				WV Department of Environmental Protection
Sizes:				
Depths Set:				

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John A. Strader
STRADER
3/26/2026

WW-6B
(10/14)

API NO. 47- 069 -
OPERATOR WELL NO. Rayle Coal UP OHI 4H
Well Pad Name: Rayle Coal OHI Pad

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

Drill and stimulate any potential zones including the Utica formation. **If we encounter a void, place a 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): 4.94

22) Area to be disturbed for well pad only, less access road (acres): 3.62

23) Describe centralizer placement for each casing string:

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

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

See Attachment ***

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25) Proposed borehole conditioning procedures:

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

*Note: Attach additional sheets as needed.

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CEMENT ADDITIVES						
INTERVAL	SCHLUMBERGER PRODUCT NAME	BJ PRODUCT NAME	NEXTIER PRODUCT NAME	PRODUCT USE	CHEMICAL NAME	CAS-Number
SURFACE (FRESHWATER) up to 3%	XXXXXX	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	S001	A-7P	0110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
COAL PROTECTION up to 3%	XXXXXX	INTEGRA SEAL	0600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
INTERMEDIATE	D020	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	0047	FP 28L	XXXXXX	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
	XXXXXX	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	CemNet	XXXXXX	XXXXXX	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	XXXXXX	XXXXXX	CJ111	ACCELERATOR	SODIUM CHLORIDE	7440-23-5
	XXXXXX	55-IIW	0880	SURFACTANT	NONIONIC SURFACTANT	6540-99-4
	DO47	FP 28L	XXXXXX	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
	XXXXXX	XXXXXX	OX157011	SOLID ANTIFOAM AGENT	FULLERS EARTH(ATTAPULGITE)	8031-18-3
	XXXXXX	XXXXXX	CJ540	HP FLUID LOSS ADDITIVE	ALIPHATICAMIDE POLYMER	PROPRIETARY
	0255	XXXXXX	XXXXXX	MED TEMP FLUID LOSS ADDITIVE	POLYACRILIC POLYMER	PROPRIETARY
	XXXXXX	XXXXXX	CJ213	RETARDER	CHRYSTALLINE SILICA	14808-60-7
	XXXXXX	FL-66	0501	LOW TEMP FLUID LOSS ADD	POWDERED POLYSACCHARIDE	PROPRIETARY
	XXXXXX	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D208	ASA-301	XXXXXX	VISCOFIER/ANTI- SETTLING AGENT	REFINED POLYMER/ CHRYSTALLINE SILICA	PROPRIETARY
	D198	R-3	XXXXXX	CEMENT RETARDER	LIGNIN	8068-51-6
	SUGAR	SUGAR	CJ795	CEMENT RETARDER	SUCROSE	57-50-1
	D065	XXXXXX	XXXXXX	DISPERSANT	SODIUM POLYNAPHTHALENE SULFONATE	8068-51-6
	D800	XXXXXX	XXXXXX	CEMENT RETARDER (Mid-Temperature)	SODIUM LIGNOSULFONATE	8061-51-6

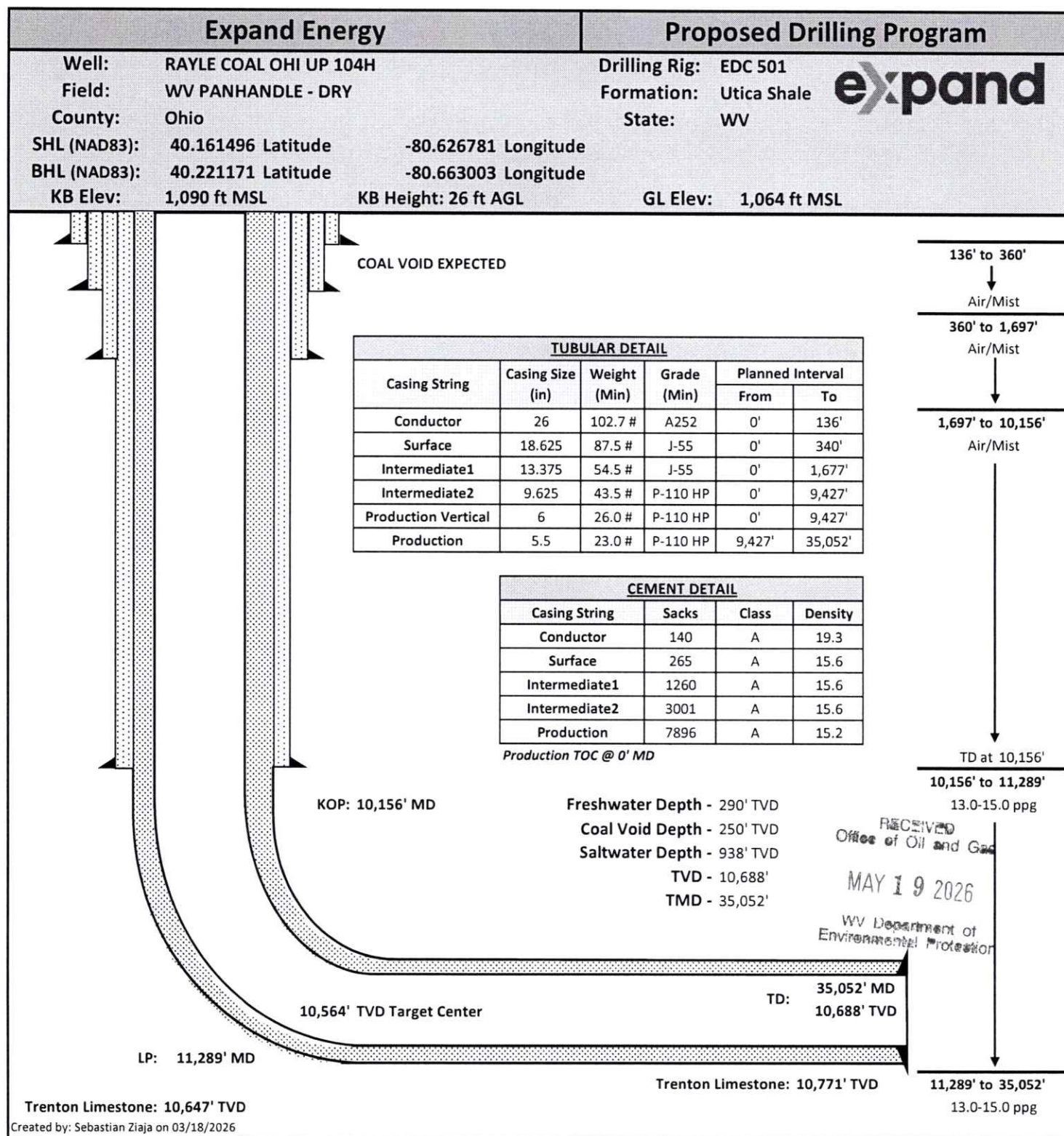
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Steve Strader
STRADER WORK
3/26/2026

WW-9
(4/16)

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API Number 47 - 069 -
Operator's Well No. Rayle Coal UP OHI 104H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Expand Operating LLC OP Code 494533012

Watershed (HUC 10) Upper Ohio South Quadrangle Tiltonsville

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

Will a pit be used? Yes ☐ No ☒

If so, please describe anticipated pit waste: _____

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

Proposed Disposal Method For Treated Pit Wastes:

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

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

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

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

Additives to be used in drilling medium? Attachment 3B

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

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

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

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

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

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

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

Company Official Signature Brittany Woody

Company Official (Typed Name) Brittany Woody

Company Official Title Senior Regulatory Analyst

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Subscribed and sworn before me this 12 day of March, 2026

Elizabeth Blankenship

Notary Public

My commission expires 6/23/2029



Drilling Mediums

Surface/Coal (if present)/Freshwater Intervals

Air

Freshwater (if needed based on conditions)

Intermediate/Coal (if present)

Air

Freshwater (if needed based on conditions)

Brine (if needed, base fluid for mud systems)

Production Hole:

Air

Synthetic Oil (Base Fluid for mud system)

Barite

Calcium Chloride

Lime

Organophilic Bentonite

Primary and Secondary Emulsifiers

Gilsonite

Calcium Carbonate

Friction Reducers

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Expand Operating LLCProposed Revegetation Treatment: Acres Disturbed 4 Prevegetation pH _____Lime as determined by pH test min. 2 Tons/acre or to correct to pH 104Fertilizer type 10-20-20Fertilizer amount 600/500 lbs/acreMulch Hay/Straw Tons/acre**Seed Mixtures****Temporary****Permanent**

Seed Type lbs/acre

Seed Type lbs/acre

Attachment 3C**Attach:**

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: STRADER GOWER

Comments: _____

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WV Department of
Environmental ProtectionTitle: Oil & Gas Inspector Date: 3/26/2026Field Reviewed? (X) Yes () No

06/26/2026

		WVD Seeding Specification	
To Order Seed contact John Dubowski office 304-209-5741 cell 346-773-6078 john.dubowski@expandenergy.com (please allow 7 to 10 days for delivery)			
NON-ORGANIC PROPERTIES		ORGANIC PROPERTIES	
Seed Mixture: ROW Mix		Seed Mixture: Expand Production Organic Mix	
SWN Supplied		Expand Supplied	
Orchardgrass	40%	Organic Timothy	50%
Timothy	15%	Organic Red or White Clover	50%
Annual Ryegrass	15%	OR	
Brown Top Millet	5%	Organic Perennial Ryegrass	50%
Red Top	5%	Organic Red or White Clover	50%
Medium Red Clover	5%	Apply @ 100lbs per acre April 16th- Oct. 14th	Apply @ 200lbs per acre Oct. 15th- April 15th
White Clover	5%		
Birdsfoot Trefoil	5%		
Rough Bluegrass	5%	Organic Fertilizer @ 200lbs per Acre	Pelletized Lime @ 2 Tons per Acre
Apply @ 100lbs per acre April 16th- Oct. 14th		All legumes are innoculated at 5x normal rate	
Apply @ 200lbs per acre Oct. 15th- April 15th PLUS 50lbs per acre of Winter Wheat			
SOIL AMENDMENTS		WETLANDS (delineated as jurisdictional wetlands)	
10-20-20 Fertilizer		Seed Mixture: Wetland Mix	
*Apply @ 500lbs per Acre		Expand Supplied	
Pelletized Lime	Apply @ 2 Tons per Acre	VA Wild Ryegrass	20%
*unless otherwise dictated by soil test results		Annual Ryegrass	20%
Seeding Calculation Information:		Fowl Bluegrass	20%
1452' of 30' ROW/LOD is One Acre		Cosmos 'Sensation'	10%
871' of 50' ROW/LOD is One Acre		Redtop	5%
622' of 70' ROW/LOD is One Acre		Golden Tickseed	5%
Synopsis:		Maryland Senna	5%
Every 622 linear feet in a 70' ROW/LOD, you should be using (2) 50lb bags of seed, (4) 50lb bags of fertilizer and (80) 50lb bags of Lime (2x seed in winter months + 50lb Winter Wheat/ac).		Showy Tickseed	5%
Special Considerations:		Fox Sedge	2.5%
Landowner Special Considerations including CREP program participants require additional guidance that is not given here. Discuss these requirements with Expand supervision at the beginning of the project to allow time for special seed delivery.		Soft Rush	2.5%
		Woolgrass	2.5%
		Swamp Verbena	2.5%
		Apply @ 25lbs per acre April 16th- Oct. 14th	
		Apply @ 50lbs per acre Oct. 15th- April 15th	
		NO FERTILIZER OR LIME INSIDE WETLAND LIMITS	

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MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN

4706900386



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

API NO. 47-XXX-XXXXX
WELL NAME: Rayle Coal UP OHI 104H
Tiltonsville QUAD
Richland DISTRICT
OHIO COUNTY, WEST VIRGINIA

Submitted by:

Name: Brittany Woody

Brittany Woody

Date: 2/24/2026

Title: Senior Regulatory Analyst

Expand Energy

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Approved by:

Name: STRADER GWE R

Date: 3/26/2026

Title: Oil Gas Inspector

Approved by:

Name: _____

Date: _____

Title: _____

Expand Energy – CONFIDENTIAL

06/26/2026

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

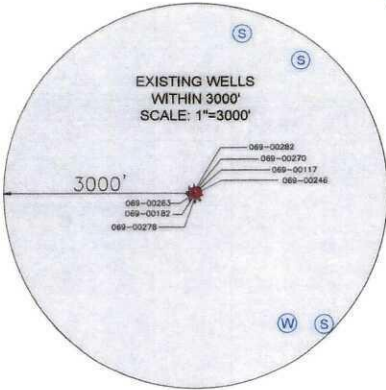
LATITUDE: 40°10'00" SURFACE HOLE (2000' SCALE) 494'

LATITUDE: 40°15'00" BOTTOM HOLE (2000' SCALE)



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

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



LINE	BEARING	DISTANCE
L1	N41°50'44"E	1042.71'
L2	S54°52'54"E	551.89'

SURFACE HOLE LOCATION (SHL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4445748.66
EASTING: 531782.69

LANDING POINT LOCATION (LPL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4446082.30
EASTING: 532276.05

BOTTOM HOLE LOCATION (BHL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4452359.97
EASTING: 528673.00

NOTES ON SURVEY

- COORDINATE SYSTEM IS UTM NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
- 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.
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- NO DWELLINGS OR BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
- NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF THE LIMITS OF DISTURBANCE.
- NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.

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. 2503

(X) 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)

RAYLE COAL UP OHI

OPERATOR'S WELL #:

104H

API WELL #:

47

069

06386

STATE

COUNTY

PERMIT

WELL TYPE: OIL ☐ WASTE DISPOSAL ☐ PRODUCTION ☒ DEEP ☒ GAS ☒ LIQUID INJECTION ☐ STORAGE ☐ SHALLOW ☐	ELEVATION: 1064.1'
WATERSHED: UPPER OHIO SOUTH	QUADRANGLE: TILTONSVILLE, OH
DISTRICT: RICHLAND	ACREAGE: ±15.306
COUNTY: OHIO	ACREAGE: ±15.306
SURFACE OWNER: HERBERT DIANE	
OIL & GAS ROYALTY OWNER: HERBERT DIANE	
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: POINT PLEASANT	UNIT SIZE: 495.649 ACRES
ESTIMATED DEPTH: 10688' TVD 35052 TMD	

WELL OPERATOR: EXPAND OPERATING LLC

ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201

CITY: MORGANTOWN

STATE: WV

ZIP CODE: 26508

DESIGNATED AGENT: BRITTANY WOODY

ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201

CITY: MORGANTOWN

STATE: WV

ZIP CODE: 26508

LEGEND:

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- EXISTING / PRODUCING WELLHEAD
- LPL: LANDING POINT LOCATION
- EXISTING WATER WELL
- EXISTING SPRING

- DRILLING UNIT
- PROPOSED PATH
- NATURAL WATERWAY
- PUBLIC ROAD
- DHP BUFFER

REVISIONS:

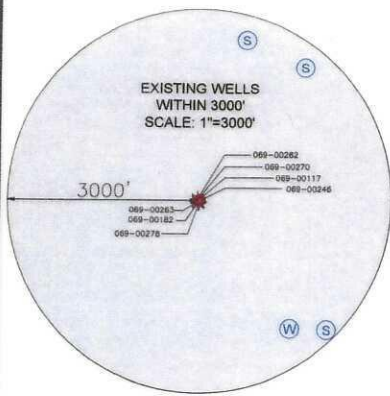
DATE: 03-27-2026
API NO: 47-069-XXXXX
DRAWN BY: PWZ
SCALE: 1" = 2000'
DRAWING NO: 2018-864
WELL LOCATION PLAT

LATITUDE: 40°10'00" SURFACE HOLE (2000' SCALE) 494'

LATITUDE: 40°15'00" BOTTOM HOLE (2000' SCALE) 10614'



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



LINE	BEARING	DISTANCE
L1	N41°50'44"E	1042.71'
L2	S54°52'54"E	551.89'

SURFACE HOLE LOCATION (SHL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4445748.66
EASTING: 531782.69

LANDING POINT LOCATION (LPL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4446082.30
EASTING: 532276.05

BOTTOM HOLE LOCATION (BHL):

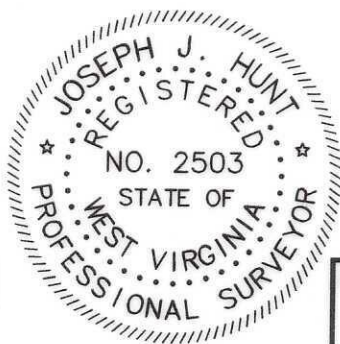
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4452359.97
EASTING: 528673.00

NOTES ON SURVEY

- COORDINATE SYSTEM IS UTM NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
- 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.
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- NO DWELLINGS OR BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
- NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF THE LIMITS OF DISTURBANCE.
- NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.

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. 2503



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

RAYLE COAL UP OHI
OPERATOR'S WELL #: 104H

API WELL #: 47 069 00386
STATE COUNTY PERMIT

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

WATERSHED: UPPER OHIO SOUTH

DISTRICT: RICHLAND

COUNTY: OHIO

ELEVATION: 1064.1'

QUADRANGLE: TILTONSVILLE, OH

SURFACE OWNER: HERBERT DIANE

OIL & GAS ROYALTY OWNER: HERBERT DIANE

ACREAGE: ±15.306

ACREAGE: ±15.306

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: POINT PLEASANT

UNIT SIZE: 495.649 ACRES

ESTIMATED DEPTH: 10688' TVD 35052 TMD

WELL OPERATOR: EXPAND OPERATING LLC

DESIGNATED AGENT: BRITTANY WOODY

ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201

ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201

CITY: MORGANTOWN

STATE: WV

ZIP CODE: 26508

CITY: MORGANTOWN

STATE: WV

ZIP CODE: 26508

LEGEND:

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- EXISTING / PRODUCING WELLHEAD
- LANDING POINT LOCATION
- EXISTING WATER WELL
- EXISTING SPRING
- DRILLING UNIT
- PROPOSED PATH
- NATURAL WATERWAY
- PUBLIC ROAD
- DHP BUFFER

REVISIONS:

DATE: 03-27-2026

API NO: 47-069-XXXXX

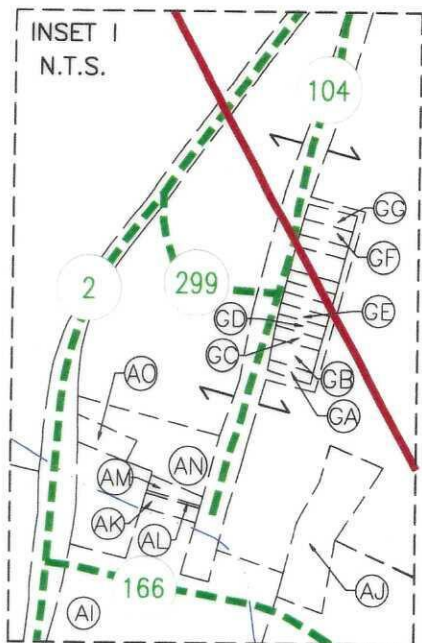
DRAWN BY: PWZ

SCALE: 1" = 2000'

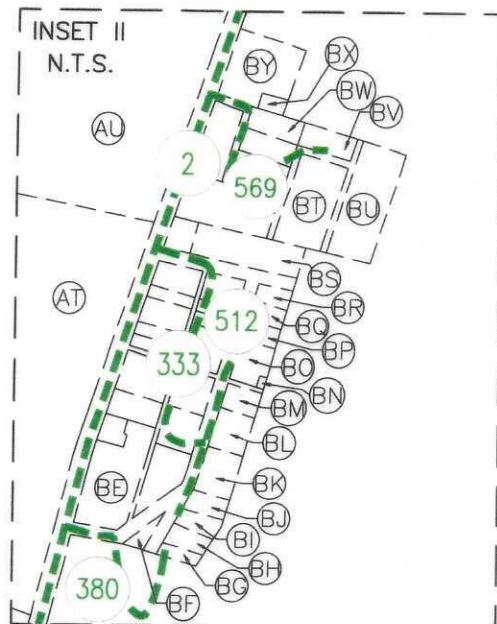
DRAWING NO: 2018-864

WELL LOCATION PLAT

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



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



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



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



06/26/2026

REVISIONS:

COMPANY:

expand

OPERATOR'S

RAYLE COAL UP OHI

DATE: 03-27-2026

WELL #:

104H

API NO: 47-069-XXXXX

DISTRICT:

COUNTY:

STATE:

DRAWN BY: PWZ

RICHLAND

OHIO

WV

SCALE: N/A

DRAWING NO: 2018-864

WELL LOCATION PLAT

PROPERTY NUMBER 676140

WELL BORE TABLE FOR SURFACE/ROYALTY OWNERS			ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	TRACT	SURFACE OWNER	TAX PARCEL
1	HEBERT DIANE	4-R6-17.10	AJ	WINDSOR POWER HOUSE COAL CO	1-BB36-22
TRACT	SURFACE OWNER	TAX PARCEL	AK	MCALLISTER MARY LOUISE	1-BB36-21
2	BRYAN STELLA M & KATHLEEN J	4-R6-17.1	AL	MCALLISTER MARY LOUISE	1-BB36-20
3	PAHOUNDIS MARIKA & GEORGE	4-R6-17.9	AM	ADAMSON LEITHA	1-BB36-19
4	GOFF WINDELL H II & GLADYS	4-R6-27.1	AN	PLANTS RALPH & MARY ANN	1-BB36-4
5	DAVIS CHARLES B III & ELIZABETH MARIE	4-R6-14.4	AO	PLANTS RALPH L & MARY ANN	1-BB36-5
6	SHOOK WAYNE E	4-R6-15	AP	PLANTS RALPH	1-BB36-3
7	WINDSOR COAL COMPANY	4-R6-12	AQ	ALLEGHENY ENERGY SUPPLY COMPANY LLC	1-BB36-30
8	RAYLE COAL CO	4-R6-17.3	AR	THE BROOKE COUNTY COMMISSION	1-BB41-8
9	HERCULES GARY WAYNE	4-R6-16	AS	BUSINESS DEV CORP OF THE NORTHERN PANHANDLE	1-BB36-2
10	HERCULES GARY & MARTHA	4-R6-5	AT	BUSINESS DEV CORP OF THE NORTHERN PANHANDLE	1-B36K-13
11	HERCULES GARY & MARTHA	4-R6-6	AU	BUSINESS DEV CORP OF THE NORTHERN PANHANDLE	1-B36F-77
12	HERCULES MARTHA	4-R6-7	AV	BUSINESS DEV CORP OF THE NORTHERN PANHANDLE	1-B36B-117
13	UTT ULRICH	4-R6-24.2	AW	BROOKE COUNTY PUBLIC SERVICE DISTRICT	1-B36B-118
14	UTT ULRICH	4-R6-24.1	AX	OSAGE NATION	1-B36B-117.1
15	MY THREE SONS HOLDINGS LP	3-B46-24	AY	BUSINESS DEV CORP OF THE NORTHERN PANHANDLE	1-B36B-116
16	WILLIAMS ROBERT	3-B46-25	AZ	BUSINESS DEV CORP OF THE NORTHERN PANHANDLE	1-B36B-126
17	BLAKE BUSTER T & BARBARA A	3-B46-23	BA	BROWNLEE LAND VENTURES LP	1-BB31-8
18	GILBERT TRACY	3-B46-22	BB	VILLAGE OF BEECH BOTTOM	1-B36B-115.4
19	BRITT DANNY GENE & VIRGINIA MARGARET	3-B46-27	BC	BROWNLEE LAND VENTURES LP	1-B36B-115
20	GREATHOUSE BARRY L & PATRICIA A	3-B41-82	BD	BUSINESS DEV CORP OF THE NORTHERN PANHANDLE	1-B36B-119
21	MILLER ROBERT J JR & LINDA	3-B41-47	BE	RUSCHEL DENNIS	1-B36K-2
22	SCHUETZ JOY ANN & EBBIE J	3-B41-46	BF	JONES WILLIAM & KELLY	1-B36K-3
23	WINDSOR POWER HOUSE COAL CO	3-B41-39	BG	COEN DOLORES VIRGINIA	1-B36K-12
24	WINDSOR POWER HOUSE COAL CO	3-B36-91	BH	JONES WILLIAM & KELLY	1-B36K-11
25	BUSINESS DEV CORP OF THE NORTHERN PANHANDLE	1-BB36-23.1	BI	HENLINE LEONARD F SR	1-B36K-10
26	ALLENBY KAORI KANE	1-BB36-12	BJ	JONES WILLIAM	1-B36K-9
27	ALLENBY KAORI KANE	1-BB36-11	BK	JONES WILLIAM	1-B36K-8
28	ALLENBY KAORI KANE	1-BB36-10	BL	RYNIAWEC NICHOLAS	1-B36F-96
29	SMITH CHERYL; CURIA LINDA; LEST SMITH & ROBERT L	1-BB36-9	BM	COOPER GARY EDWARD & CONSTANCE L	1-B36F-95
30	MURDOCK STEVEN ANDREW & DEBBIE LYNN	1-BB36-8	BN	UNKNOWN HEIRS OR ASSIGNS OF CHRIS KERCHER	1-B36F-94
31	BUSINESS DEV CORP OF THE NORTHERN PANHANDLE	1-BB36-1	BO	LEONARD WILLIAM E & DEBRA L	1-B36F-93
32	BUSINESS DEV CORP OF THE NORTHERN PANHANDLE	1-BB36-24	BP	SUTER TARA D	1-B36F-92
33	BUSINESS DEV CORP OF THE NORTHERN PANHANDLE	1-BB36-23	BQ	SUTER TARA D	1-B36F-91
ADJOINING OWNERS TABLE			BR	ESKEY JOHN	1-B36F-90
TRACT	SURFACE OWNER	TAX PARCEL	BS	HAMILTON SHAWN DAVID & KATHERINE ELLEN JTWS	1-B36F-89
A	WOOD RICHARD A JR	4-R6-24.6	BT	SELMON BRUCE & DEBBI	1-B36F-86
B	VOLZ CHARLES R	4-R6-22	BU	SELMON BRUCE & DEBBI	1-B36F-85
C	ENNIS LOUIS J JR & GRETCHEN L	4-R6-19.2	BV	LILLY TERRY LYNN	1-B36F-84
D	MOX DOUGLAS & LISA W	4-R6-19	BW	KIRK JASON	1-B36F-81
E	SEAMON MARC	4-R6-37	BX	KIRK JASON	1-B36F-79
F	JOWETT ESTER & TONY	4-R6-17.8	BY	C & P TELEPHONE CO OF W VA	1-B36F-78
G	BRUNER LAND COMPANY INC	4-R6-17.7	BZ	JONES ELSIE	1-B36F-25
H	DELANCEY KIKI	4-R6-17.6	CA	JAC FRED WV LLC, A NORTH CAROLINA LLC	1-B36F-26
I	RAYLE COAL CO	4-R6-17.4	CB	FEDCZAK MICHAEL EDWARD & EMMA	1-B36F-76
J	RAYLE COAL CO	4-R6-17	CC	FEDCZAK MICHAEL EDWARD & EMMA	1-B36F-75
K	BOARD OF COMM OHIO CO	4-R5-55	CD	PIERCE TY DAVID	1-B36F-74
L	SEAMON MARC	4-R6-2	CE	PIERCE TY DAVID	1-B36F-73
M	HERCULES GARY & MARTHA	4-R6-4.1	CF	MARKER PHYLLIS	1-B36F-72
N	HERCULES GARY & MARTHA	4-R6-6.1	CG	MOORE GLENN T SR	1-B36F-71
O	HERCULES GARY & MARTHA	4-R6-4.2	CH	MOORE GLENN T SR	1-B36F-70
P	HERCULES GARY & MARTHA	4-R6-4	CI	STOLLAR JEFFREY	1-B36F-69
Q	BONAR BRUCE D & WILLIAM D	3-B46-20	CJ	MORRELL JUNE E & HEILIMANN ROBIN KEITH	1-B36F-67
R	GILBERT TRACY	3-B46-22.1	CK	GREENE CRAIG H	1-B36F-66
S	BOARD OF COMM OHIO CO & WHG OHIO COUNTY AIRPORT AUTH	4-R5-10	CL	BIBI UZMA	1-B36F-65
T	HAYMAN FREDERICK CLAY JR & STACY ANN (JTWS)	3-B46-41	CM	YAHRLING ALLEN KEITH & CAROLE	1-B36F-64
U	GREATHOUSE BARRY L	3-B41-83	CN	MORRELL JUNE E	1-B36F-63
V	GREATHOUSE BARRY L	3-B41-32	CO	POLAND EDWARD A	1-B36F-62
W	FRANCIS KEITH R	3-B41-31	CP	VALENZUELA NICHOLAS RAY	1-B36F-61
X	MOORE ROSEMARY KINDER	3-B41-35	CQ	THE VILLAGE OF BEECH BOTTOM	1-B36F-60
Y	NICOLOAN RAY PAUL	3-B41-42	CR	PAINTER JOYCE L	1-B36F-59
Z	SCHUETZ JOY ANN & EBBIE J	3-B41-45	CS	RICHARDSON JANET L	1-B36F-58
AA	SCHUETZ JOY ANN	3-B41-43	CT	RICHARDSON JANET L	1-B36F-57
AB	HANCHER JAMES	3-B41-44	CU	RICHARDSON JANET L	1-B36F-56
AC	PEREZ DONNA MARIE	3-B41-37	CV	RICHARDSON JANET L	1-B36F-55
AD	HALL DONALD P & MARY M (JTWS)	3-B41-38	CW	RICHARDSON JANET L	1-B36F-54
AE	WINDSOR POWER HOUSE COAL CO	3-B41-5	CX	MONONGAHELA POWER CO	1-B36F-53
AF	WINDSOR POWER HOUSE COAL CO	3-B41-7	CY	GRIMES LARRY W	1-B36F-52
AG	WEST PENN POWER CO	1-BB36-27	CZ	GRIMES LARRY W	1-B36F-51
AH	WINDSOR POWER HOUSE COAL CO	1-BB36-26	DA	CORNERSTONE CHRISTIAN ACADEMY LLC	1-B36B-106
AI	WINDSOR POWER HOUSE COAL CO	1-BB36-25			

06/26/2026

REVISIONS:	COMPANY: 				
	OPERATOR'S		RAYLE COAL UP OHI		DATE: 03-27-2026
	WELL #:		104H		API NO: 47-069-XXXXX
	DISTRICT:	COUNTY:	STATE:		DRAWN BY:PWZ
	RICHLAND	OHIO	WV		SCALE: N/A
					DRAWING NO:2018-864
					WELL LOCATION PLAT

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
DB	VILLAGE OF BEECH BOTTOM	1-B36B-17
DC	VILLAGE OF BEECH BOTTOM	1-B36B-16
DD	SMART JUSTIN & AMANDA	1-B36B-13
DE	LEWIS JUDITH	1-B36B-12
DF	BLANCHARD JAMES E & SARAH E	1-B36B-11
DG	MCCUTCHAN BARBARA	1-B36B-10
DH	HUNTER BRUCE & VICKI LYNN	1-B36B-9
DI	PHILABAUM ANDREW J & BRADLEY STEPHANIE	1-B36B-8
DJ	PHILABAUM ANDREW J & BRADLEY STEPHANIE	1-B36B-7
DK	BLANCHARD JAMES E & SARAH	1-B36B-6
DL	BLANCHARD JAMES E & SARAH	1-B36B-5
DM	DALBO PATRICK J	1-B36B-2
DN	VILLAGE OF BEECH BOTTOM	1-B36B-1
DO	SMITH JOYCE A	1-B36B-120
DP	NEXT WELLSBURG REALTY LLC	1-B36B-121.1
DQ	LAMBERT JOHNNY & MARIA	1-B36B-124
DR	CONERY EDWARD A	1-B36B-125
DS	MILLER ARLINE F	3-B36-5
DT	MILLER ARLINE F	3-B36-6
DU	UNKNOWN	3-B31-74
DV	LOMBARD BERNARD J III	3-B31-81
DW	FODOR STEPHEN A	3-B36-176
DX	HOFFMAN JOHN R & ALICE J	3-B36-175
DY	LEONARD PAUL D & KIMBERLY D	3-B36-173
DZ	LEONARD BRANNON P & EMILY M.	3-B36-172
EA	LEONARD BRANNON P & EMILY M.	3-B36-171
EB	LEMASTERS HARLEY J	3-B36-170
EC	LEMASTERS HARLEY J	3-B36G-47
ED	LEMASTERS HARLEY	3-B36G-46
EE	LEMASTERS HARLEY	3-B36G-45
EF	LEMASTERS HARLEY	3-B36G-44
EG	LEMASTERS HARLEY	3-B36G-43
EH	LEMASTERS HARLEY J	3-B36G-42
EI	LEMASTERS HARLEY J	3-B36G-41
EJ	WALLACE LESTER & KATHERINE	3-B36G-1
EK	CLARK TAMMY R & RANDOLPH L	3-B36L-11
EL	KIRBY JACOB ALEXANDER	3-B36L-11.1
EM	HUFF AMANDA	3-B36L-17
EN	WAGNER CONNIE	3-B36L-15
EO	RICHARDSON BRIAN D & CASEY K	3-B36L-21.1
EP	WINDSOR POWER HOUSE COAL CO	3-B36-101
EQ	WINDSOR POWER HOUSE COAL CO	3-B36-102
ER	WINDSOR POWER HOUSE COAL CO	3-B36-100
ES	WINDSOR POWER HOUSE COAL CO	3-B41-48
ET	CORDERY SANDRA J & WILLIAM	3-B41-50
EU	YOUNG FRED W JR	3-B41-54.1
EV	YOUNG FRED W JR	3-B41-54.3
EW	FREELAND ERIC C	3-B41-54
EX	STEPHENS KARL DOUGLAS	3-B41-54.2
EY	MILLER WILLIAM & DAWNA	3-B41-61
EZ	COLLINS JAY GLEN	3-B41-80

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
FA	WOOD MARY R	3-B41-84
FB	GEBHARDT JAMES B & MELISSA D	3-B46-29
FC	GEBHARDT JAMES B & MELISSA D & AXEL (JTWS)	3-B46-29.2
FD	BAXTER RACHEL R	3-B46-28
FE	FRIEND REBECCA	3-B46-30
FF	FRIEND LEVI CHARLES	3-B46-26
FG	CRUPE TERRY L	3-B46-33
FH	SHELL ALFRED	3-B46-37
FI	KERNS MELISSA	3-B46-40.1
FJ	KERNS MELISSA A & ETHAN	4-R6-8.1
FK	KERNS MELISSA ANN & ETHAN	4-R6-8
FL	WHITE FLORENCE E	4-R6-10
FM	HORNICK JEFFREY A & JENNIFER A	3-B47-5
FN	WADE MARK A & MARY IVA SMITH REVOCABLE LIVING TRUST	3-B47-4
FO	WADE MARK A & MARY REVOCABLE LIVING TRUST	4-R6-11
FP	SAMPSON DALE M	3-L1-2
FQ	SAMPSON DALE M	4-R6-13
FR	ROBRECHT RICHARD J & MICKEY	4-R6-14
FS	CLUTTER SUZANNE D & CHAD D	4-R6-14.6
FT	CLUTTER SUZANNE D & CHAD D	4-R6-14.5
FU	DAVIS CHARLES B III & ELIZABETH MARIE	4-R6-14.3
FV	DAVIS CHARLES & ELIZABETH M	4-R6-14.2
FW	CRABTREE RANDALL L & KOVALSKI CYNTHIA S	4-R6-27.3
FX	CARENBAUER NICOLE L	4-R6-28.6
FY	GOFF WINDELL H II & GLADYS	4-R6-24.3
FZ	WINDSOR COAL COMPANY	4-R6-25
GA	CUNNINGHAM MARY G	1-BB36-17
GB	CUNNINGHAM MARY G	1-BB36-16
GC	ALLENBY KAORI KANE	1-BB36-15
GD	ALLENBY KAORI KANE	1-BB36-14
GE	ALLENBY KAORI KANE	1-BB36-13
GF	JOHNSTON DANIEL L & CATHY J	1-BB36-7
GG	DICKINSON LELAND J & TRACY A	1-BB36-6

06/26/2026

REVISIONS:	COMPANY: 		
	OPERATOR'S RAYLE COAL UP OHI		DATE: 03-27-2026
	WELL #: 104H		API NO: 47-069-XXXXX
	DISTRICT: RICHLAND	COUNTY: OHIO	DRAWN BY:PWZ
		STATE: WV	SCALE: N/A
			DRAWING NO:2018-864
			WELL LOCATION PLAT

WW-6A1
(5/13)

Operator's Well No. Rayle Coal UP OHI 104H

**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"

RECEIVED
Office of Oil and Gas
MAY 19 2026
WV Department of
Environmental Protection

*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: Cole Vannorsdel

Its: Landman I

EXHIBIT "A"
Rayle Coal UP OHI 104H
Ohio County, West Virginia

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

#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG	% INTEREST NOT LEASED BY EXPAND APPALACHIA LLC
1	4-R6-17.10	Rayle Coal Company	Chesapeake Appalachia, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	808/335 1094/490 883/403	0%
2	4-R6-17.1	Kathleen J. Bryan and Stella M. Bryan	Chesapeake Appalachia, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	822/418 1094/490 884/717	0%
3	4-R6-17.9	Rayle Coal Company	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	808/335 1094/490 883/403	0%
4	4-R6-27.1	Windett H. Goff and Gladys Goff, husband and wife	Chesapeake Appalachia, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	813/688 1094/490 884/421	0%
5	4-R6-14.4	Charles B. Davis, Jr. a/k/a Charles B. Davis (Life Estate Interest) and Madona Davis (Remainder Interest), husband and wife	Chesapeake Appalachia, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	808/332 1094/490 883/391	0%
6	4-R6-15	Wayne E. Shook, a single man	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	813/570 1094/490 884/421	0%
7	4-R6-12	CNX Gas Company, LLC	Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	68/262	0%
8	4-R6-17.3	Rayle Coal Company	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	808/334 1094/490 883/403	0%
9	4-R6-16	Gary Hercules, a/k/a Gary Wayne Hercules and Martha Hercules, husband and wife	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	926/87 1094/490	0%
10	4-R6-5	Gary Hercules a/k/a Gary Wayne Hercules, and Martha Hercules, husband and wife	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	926/87 1094/490	0%
11	4-R6-6	Gary Hercules & Martha Hercules, husband and wife	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	956/286 1094/490	0%
12	4-R6-7	Gary Hercules a/k/a Gary Wayne Hercules, and Martha Hercules, husband and wife	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	926/87 1094/490	0%
13	4-R6-24.2	Ulrich Utt and Melinda Utt, husband and wife	Chesapeake Appalachia, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	818/332 1094/490 884/681 889/121	0%
14	4-R6-24.1	Ulrich Utt and Melinda Utt, husband and wife	Chesapeake Appalachia, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	818/485 1094/490 884/681 889/121	0%
15	3-B46-24	Anna Wilson, widow	Chesapeake Appalachia, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	25/367 21/294 30/480 30/557	0%
	3-B46-24	David Brandimarte and Susan Brandimarte, Husband and Wife	Chesapeake Appalachia, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	23/516 21/294 30/480 30/557	0%
	3-B46-24	Donna Yost, widow	Chesapeake Appalachia, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	22/161 21/294 30/480 30/557	0%
	3-B46-24	Gregory Brandimarte and Maddie Brandimarte, husband and wife	Chesapeake Appalachia, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	23/511 21/294 30/480 30/557	0%
	3-B46-24	Josephine Jordan, widow	Chesapeake Appalachia, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	22/166 21/294 30/480 30/557	0%
	3-B46-24	Linda Price and Brandt Price, wife and husband	Chesapeake Appalachia, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	23/212 21/294 30/480 30/557	0%
	3-B46-24	Marie P. Fisher, single and Lulu Fisher, widow	Chesapeake Appalachia, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	9/637 21/294 30/480 30/557	0%
	3-B46-24	Myra Mokricky and Brian Mokricky, wife and husband	Chesapeake Appalachia, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	24/684 21/294 30/480 30/557	0%

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#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG	% INTEREST NOT LEASED BY EXPAND APPALACHIA A LLC
	3-B46-24	Patrick Villinger and Teauna Villinger, husband and wife	Chesapeake Appalachia, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	23/625 21/294 30/480 30/557	0%
16	3-B46-25	Gary L. Williams and Margie Williams, his wife	Chesapeake Appalachia, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	15/296 21/294 30/480	0%
17	3-B46-23	Barbara A. Blake and Buster T. Blake, wife and husband	Chesapeake Appalachia, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	19/147 21/294 30/480 30/557	0%
18	3-B46-22	Tracy Gilbert and Julie Gilbert, husband and wife	Great Lakes Energy Partners, L.L.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	10/52 26/646 21/294 30/480 30/557	0%
19	3-B46-27	Danny Gene Britt and Virginia Margaret Britt, husband and wife	Great Lakes Energy Partners, L.L.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	10/109 21/294 30/480 30/557	0%
20	3-B41-82	Rayle Coal Company	Chesapeake Appalachia, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	10/751 21/294 32/384	0%
21	3-B41-47	Robert J. Miller, Jr. and Linda M. Miller, husband and wife	Great Lakes Energy Partners, L.L.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	9/517 21/294 30/480 30/557	0%
22	3-B41-46	Joy Ann Schuetz and Ebbie J. Schuetz, wife and husband	Chesapeake Appalachia, LLC SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	26/287 21/294 30/557 30/480	0%
23	3-B41-39	Unleased owner (s) subject to unitization filing	N/A	N/A	N/A	100%
24	3-B36-91	CNX Gas Company, LLC	Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	68/262	0%
25	1-BB36-23.1	Bounty Minerals, LLC	Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	68/316	0%
26	1-BB36-12	Franklin Miller, a married man dealing in his sole and separate property	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	48/629 21/294	0%
27	1-BB36-11	Franklin Miller and Connie J. Miller, husband and wife	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	48/635 21/294	0%
28	1-BB36-10	Franklin Miller and Connie J. Miller, husband and wife	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	48/635 21/294	0%
29	1-BB36-9	Cheryl E. Smith, a single woman, Remainderman, and Robert L. Smith and Jo Ann Smith, husband and wife, Life Estate	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	48/612 21/294	0%
30	1-BB36-8	Steven Andrew Murdock and Debbie Lynn Murdock, husband and wife	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	48/180 21/294	0%
31	1-BB36-1	Bounty Minerals, LLC	Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	68/316	0%
		Ridgetop Appalachia, LLC	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	48/134 21/294	0%
32	1-BB36-24	Bounty Minerals, LLC	Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	68/316	0%
		Ridgetop Appalachia, LLC	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	48/134 21/294	0%
33	1-BB36-23	Bounty Minerals, LLC	Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	68/316	0%
		Ridgetop Appalachia, LLC	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WW Code §22-6-8	48/134 21/294	0%
*Co-tenancy utilization - At least 75% of the royalty owners have consented to the lawful use or development of the oil or natural gas mineral property on the tract. The interests of the remaining co-tenants will be secured pursuant to the Co-tenancy Modernization and Majority						
*Horizontal well unit utilization - Subject to unitization filing with the West Virginia Oil and Gas Conservation Commission.						
*Potentially Impacted Parcels - Parcels that may be impacted during drilling.						
End of Exhibit "A"						



March 11, 2026

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

RE: Expand's proposed New Well: Rayle Coal UP OHI 104H in Ohio County, West Virginia, Drilling under Huff Run Road, Lone Pine Lane, Girty's Point Road, Burg Lane, Windy Hill Road, Mac Barnes Drive, Clendenin Avenue, and River Road.

Dear Mr. Brewer:

Expand Operating LLC ("Expand") is applying for a drilling permit for the above referenced well. The State of West Virginia has raised some concern as to Expand's right to drill under Huff Run Road, Lone Pine Lane, Girty's Point Road, Burg Lane, Windy Hill Road, Mac Barnes Drive, Clendenin Avenue, and River Road. Please be advised that Expand has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read "Cole Vannorsdel".

Cole Vannorsdel
Landman
Expand Operating LLC

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WV Department of
Environmental Protection

**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: The Intelligencer

Public Notice Date: March 16, 2026 & March 23, 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:** Rayle Coal UP OHI 104H

Address: 1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508

Business Conducted: Natural gas production.

Location –

State:	<u>West Virginia</u>	County:	<u>Ohio</u>
District:	<u>Richland</u>	Quadrangle:	<u>Tiltonsville</u>
UTM Coordinate NAD83 Northing:	<u>4,445,749</u>		
UTM coordinate NAD83 Easting:	<u>531,783</u>		
Watershed:	<u>Upper Ohio South</u>		

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.

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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.

WV Department of
Environmental Protection

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

06/26/2026

4706900386

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

Date of Notice Certification: 5/18

API No. 47- 069 -

Operator's Well No. Rayle Coal UP OHI 104H

Well Pad Name: Rayle Coal OHI Pad

Notice has been given:

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

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u></u>
County:	<u>069-Ohio</u>		Northing:	<u></u>
District:	<u>Richland</u>	Public Road Access:	<u>Gritys Point Road</u>	
Quadrangle:	<u>Tiltonsville</u>	Generally used farm name:	<u>Rayle Coal</u>	
Watershed:	<u>Upper Ohio South</u>			

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

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY ☐ 1. NOTICE OF SEISMIC ACTIVITY or ☒ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED ☒ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ☐ NO PLAT SURVEY WAS CONDUCTED ☒ 3. NOTICE OF INTENT TO DRILL or ☐ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or ☐ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) ☒ 4. NOTICE OF PLANNED OPERATION ☒ 5. PUBLIC NOTICE ☒ 6. NOTICE OF APPLICATION	OOG OFFICE USE ONLY ☐ RECEIVED/ NOT REQUIRED ☐ RECEIVED ☐ RECEIVED/ NOT REQUIRED ☐ RECEIVED ☐ RECEIVED ☐ RECEIVED
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MAY 19 2026
WV Department of
Environmental Protection

Required Attachments:

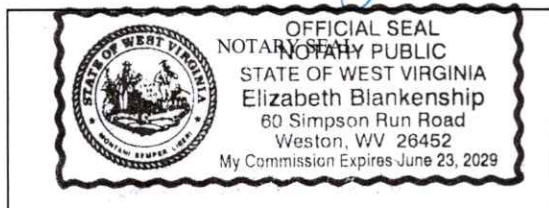
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

06/26/2026

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



Subscribed and sworn before me this 12 day of March 2026.
Elizabeth Blankenship Notary Public
My Commission Expires 6/23/2029

Oil and Gas Privacy Notice:

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

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WV Department of
Environmental Protection

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WW-6A
(9-13)

4706900386
API NO. 47- 069 -
OPERATOR WELL NO. Rayle Coal UP OHI 104H
Well Pad Name: Rayle Coal OHI Pad

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

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

Date of Notice: 5/18 **Date Permit Application Filed:** 5/18

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: Diane Herbert

Address: 327 N. 7th Street

Cambridge OH 43725

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: Windsor Power House Coal Company

Address: 275 Technology Drive, Suite 101

Canonsburg PA 15317

☐ COAL OPERATOR

Name: _____

Address: _____

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

Name: None

Address: _____

☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____

Address: _____

*Please attach additional forms if necessary

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WV Department of
Environmental Protection

06/26/2026

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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06/26/2026

WW-6A
(8-13)

API NO. 47- 069

OPERATOR WELL NO. Rayle Coal UP OHI 104H

Well Pad Name: Rayle Coal OHI Pad

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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

06/26/2026

WW-6A
(8-13)

API NO. 47- 069 -
OPERATOR WELL NO. Rayle Coal UP OHI 104H
Well Pad Name: Rayle Coal OHI Pad

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)

4706900386
API NO. 47- 069 -
OPERATOR WELL NO. Rayle Coal UP OHI 104H
Well Pad Name: Rayle Coal OHI Pad

Notice is hereby given by:

Well Operator: Expand Operating LLC

Telephone: 304-209-5688

Email: Brittany.Woody@expandenergy.com

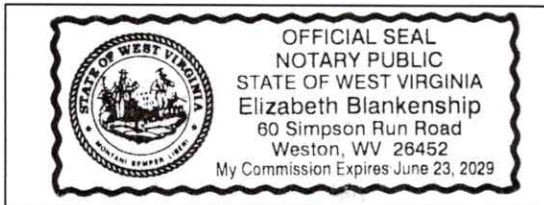
Address: 1300 Fort Pierpont Dr., Suite 201

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.



Subscribed and sworn before me this 12 day of March 2026.

Elizabeth Blankenship Notary Public
My Commission Expires 6/23/2029

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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: 2/25/2026 **Date of Planned Entry:** 3/3/2026

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

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

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

Notice is hereby provided to:

☒ **SURFACE OWNER(s)**

Name: Diane Herbert
 Address: 327 N. 7th Street
Cambridge OH 43725

Name: _____
 Address: _____

Name: _____
 Address: _____

☒ **COAL OWNER OR LESSEE**

Name: Windsor Power House Coal Company
 Address: 275 Technology Drive, Suite 101
Canonsburg, PA 15317

☒ **MINERAL OWNER(s)**

Name: Diane Herbert
 Address: 327 N. 7th Street
Cambridge OH 43725

*please attach additional forms if necessary

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Notice is hereby given:

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

State: West Virginia
 County: Ohio
 District: Richland
 Quadrangle: Tiltonsville

Approx. Latitude & Longitude: 40.161413, -80.627053
 Public Road Access: Grlys Point Road
 Watershed: _____
 Generally used farm name: Rayle Coal OH

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

Notice is hereby given by:

Well Operator: Expand Operating LLC
 Telephone: 304-884-1610
 Email: Brittany.Woody@expandenergy.com

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

Oil and Gas Privacy Notice:

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

06/26/2026

06/26/2026

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: 03/13/2026 **Date Permit Application Filed:** 5/18

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: Herbert Diane
Address: 327 N. 7th Street
Cambridge OH 43725

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: Ohio
District: Richland
Quadrangle: Wileyville, WV
Watershed: Upper Ohio South

UTM NAD 83 Easting: 531,783.53
Northing: 4,445,744.48
Public Road Access: Huff Run
Generally used farm name: Rayle Coal

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This Notice Shall Include:

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

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

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

Oil and Gas Privacy Notice:

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

06/26/2026



4706900386

**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

February 24, 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 Rayle Coal Well Pad, Ohio County
Rayle Coal OHI 4H Well Site Rayle Coal OHI 104H Well Site

Dear Mr. Harmon,

This well site will be accessed from a DOH permit #06-2012-0313 which has been transferred to Expand Operating, LLC for access to the State Road for a well site located off Ohio County Route 9 SLS MP 1.52.

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

Very Truly Yours,

Lacy D. Pratt
Central Office O&G Coordinator

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

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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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Environmental Protection
06/26/2026

OPERATOR: Expand Operating LLC

WELL NO: Rayle Coal UP OHI 104H

PAD NAME: Rayle Coal OHI Pad

REVIEWED BY: _____

SIGNATURE: Brittany Woody

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

Well Restrictions

****Pad Built 6/1/12**

☐

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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RAYLE COAL WELL PAD AS-BUILT AND EROSION & SEDIMENT CONTROL IMPROVEMENT PLAN

RICHLAND DISTRICT, OHIO COUNTY, WEST VIRGINIA
SHORT CREEK WATERSHED

LOCATION COORDINATES:

ACCESS ROAD ENTRANCE
LATITUDE: 40.157830 LONGITUDE: -80.626518 (NAD 83)
LATITUDE: 40.157758 LONGITUDE: -80.626720 (NAD 27)
N 4445341.94 E 531806.83 (UTM ZONE 17 METERS)

CENTROID OF PAD

LATITUDE: 40.161409 LONGITUDE: -80.626808 (NAD 83)
LATITUDE: 40.161337 LONGITUDE: -80.627010 (NAD 27)
N 4445739.03 E 531780.45 (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 #54069C0020D.

MISS UTILITY STATEMENT:

EXPAND ENERGY HAS NOTIFIED MISS UTILITY OF WEST VIRGINIA FOR THE LOCATING OF UTILITIES PRIOR TO CONSTRUCTION OF THIS PROJECT. MISS UTILITY SHALL BE NOTIFIED IF ANY ADDITIONAL EXCAVATION IS NECESSARY.

ENTRANCE PERMIT:

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

PROJECT CONTACTS:

OPERATOR:

EXPAND ENERGY CORPORATION
1300 FORT PIERPOINT DRIVE
STE 201 MORGANTOWN, WV 26508
PHONE: (304) 884-1810

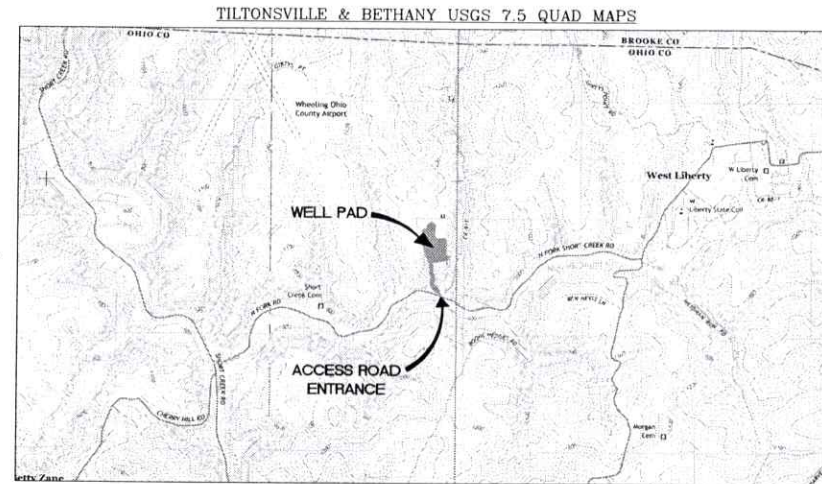
SAM TALBOTT - PLANNING ENGINEER
OFFICE: 304-884-1858

AS-BUILT ENGINEER/SURVEYOR:

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

NOTES:

- 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.
- 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.
- ALL PERMANENT SEDIMENT CONTROL MEASURES CAN BE REMOVED AFTER THE SITE IS PERMANENTLY STABILIZED AND APPROVAL IS RECEIVED FROM THE WVDEP.
- ANY AREAS DISTURBED BY REMOVAL OF CONTROLS SHALL BE REPAIRED, STABILIZED, AND PERMANENTLY SEEDED.
- THE AS-BUILT INFORMATION SHOWN HEREON REFLECTS FIELD DATA COLLECTED RELATING TO THE FINAL GRADING OF THE DISTURBED AREA AS OF MARCH 2, 2024. NAVITUS ENGINEERING IS NOT RESPONSIBLE FOR ANY CHANGES MADE TO THE SITE AFTER THE ABOVE MENTIONED DATES.
- THE EXISTING CONTAINMENT BERM AROUND THE WELL PAD SHALL BE REPAIRED AS NECESSARY TO ENSURE 100% CONTAINMENT OF ALL FLUIDS PRIOR TO DRILLING OPERATIONS.
- THE EXISTING EGRESSSES TO THE WELL PAD SHALL HAVE THE MOUNTABLE BERMS REPAIRED AS NECESSARY TO ENSURE 100% CONTAINMENT OF ALL FLUIDS PRIOR TO DRILLING OPERATIONS.



WEST VIRGINIA STATE PLANE COORDINATE SYSTEM
NORTH ARCTIC ZONE
ELEVATION BASED ON NAVD83
ESTABLISHED BY SURVEY GRADE GPS & OPUS
POST-PROCESSING

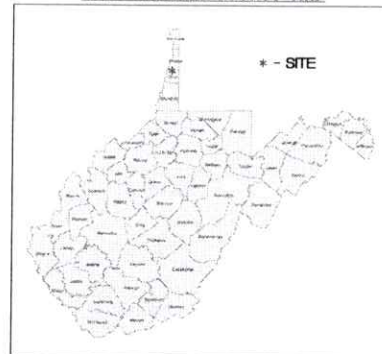
SHEET INDEX:

- 1 - COVER SHEET
- 2 - LEGEND
- 3 - OVERALL PLAN SHEET INDEX
- 4-5 - ACCESS ROAD & WELL PAD AS-BUILT PLAN
- 6 - ACCESS ROAD AS-BUILT PROFILES
- 7 - WELL PAD AS-BUILT SECTIONS

RAYLE COAL LIMITS OF DISTURBANCE AREA (AC)	
Total Site	
Total Affected Area	16.98

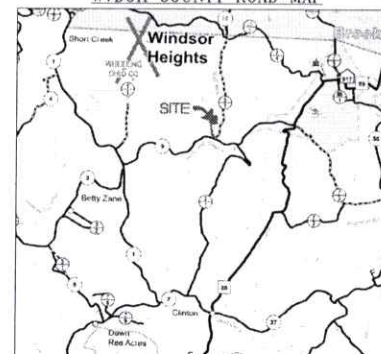
Well Name	WV North		NAD 27 Lat & Long		NAD 83 UTM		NAD 83 Lat & Long	
	NAD 27				(METERS) ZONE 17			
Permitted Location								
Rayle Coal OHI 406H (Drilled)	N 607145.20		LAT 40-09-41.3810		N 4445755.89		LAT 40-09-41.6195	
API# 47-069-00282	E 1084985.74		LONG -80-37-37.4638		E 531775.00		LONG -80-37-36.7367	
Rayle Coal OHI 206H (Drilled)	N 607132.23		LAT 40-09-41.2322		N 4445751.92		LAT 40-09-41.4907	
API# 47-069-00270	E 1084988.04		LONG -80-37-37.4321		E 531775.77		LONG -80-37-36.7050	
Rayle Coal OHI 0H (Drilled)	N 607117.60		LAT 40-09-41.0881		N 4445747.48		LAT 40-09-41.3406	
API# 47-069-00117	E 1084990.83		LONG -80-37-37.3925		E 531776.72		LONG -80-37-36.8954	
Rayle Coal OHI 401H (Drilled)	N 607103.49		LAT 40-09-40.9490		N 4445743.20		LAT 40-09-41.2075	
API# 47-069-00246	E 1084993.99		LONG -80-37-37.3509		E 531777.73		LONG -80-37-36.6238	
Rayle Coal OHI 1H (Drilled)	N 607090.46		LAT 40-09-40.8205		N 4445739.24		LAT 40-09-41.0791	
API# 47-069-00182	E 1084990.35		LONG -80-37-37.3183		E 531778.51		LONG -80-37-36.5912	
Rayle Coal OHI 201H (Drilled)	N 607076.24		LAT 40-09-40.6803		N 4445734.92		LAT 40-09-40.9389	
API# 47-069-00263	E 1084999.32		LONG -80-37-37.2777		E 531779.49		LONG -80-37-36.5506	
Rayle Coal OHI 3H (Drilled)	N 607093.49		LAT 40-09-40.8528		N 4445740.26		LAT 40-09-41.1113	
API# 47-069-00278	E 1085015.57		LONG -80-37-37.0712		E 531784.35		LONG -80-37-36.3441	

WEST VIRGINIA COUNTY MAP



(NOT TO SCALE)

WVDOH COUNTY ROAD MAP



SCALE: 1" = 5000'

AS-BUILT CERTIFICATIONS:

THE DRAWINGS, CONSTRUCTION NOTES, AND REFERENCE DIAGRAM ATTACHED HERETO HAVE BEEN PREPARED IN ACCORDANCE WITH THE WEST VIRGINIA CODE OF STATE RULES, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS CHS 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 25"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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CORPORATION

COVER SHEET
RAYLE COAL
WELL PAD
RICHLAND DISTRICT
OHIO COUNTY, WEST VIRGINIA



DATE: 03/18/2026

SCALE: AS SHOWN

SHEET 1 OF 7

Shirley Gowan
STRADER GOWER
3/26/2024

WV DEPARTMENT OF
ENVIRONMENTAL PROTECTION

MAY 19 2026

Office of Oil and Gas

4706900386

LEGEND

LEGEND	
EX. INDEX CONTOUR & CONTOUR LABEL	PR. INDEX CONTOUR (10' INTERVAL) & CONTOUR LABEL
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
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
EX. ROAD CENTERLINE	MODIFICATION LIMITS OF DISTURBANCE
EX. GUARDRAIL	PR. ROAD/IMPONDEMENT EDGE OF GRAVEL
EX. BRIDGE	PR. ROAD CENTERLINE
EX. DITCHLINE/DRAINAGE FEATURE	PR. GUARDRAIL
EX. RIP-RAP	PR. ROCK CONSTRUCTION ENTRANCE
EX. CULVERT	PR. AIR BRIDGE
EX. TREELINE	PR. CULVERT
EX. BUILDING	PR. DITCH
EX. MISCELLANEOUS FEATURE	PR. RIP-RAP TRAPEZOIDAL DITCH
EX. 100 YR FEMA FLOODPLAIN	PR. OUTLET PROTECTION
EX. DELINEATED STREAM	PR. DIVERSION
EX. DELINEATED WETLAND/POND	PR. ROCK LEVEL SPREADER
100' WETLAND/STREAM BUFFER	PR. COMPOST FILTER SOCK
STREAM/WETLAND DELINEATION STUDY AREA	PR. SUPER SILT FENCE
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
EX. PIPELINE	PR. PERIMETER SAFETY FENCE
EX. PIPELINE R/W	PR. ACCESS GATE WITH EMERGENCY LIFELINE
EX. PIPELINE METER	PR. PIPELINE
EX. PIPELINE VALVE	PR. PIPELINE R/W
EX. PIT	PR. OVERHEAD UTILITY
EX. OVERHEAD UTILITY	PR. POWER POLE/GUY WIRE
EX. POWER POLE/GUY WIRE	PR. OVERHEAD UTILITY R/W
EX. UNDERGROUND ELECTRIC	PR. WATERLINE
EX. UNDERGROUND TELEPHONE	BORING LOCATION
EX. UNDERGROUND FIBER OPTIC	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	X-SECTION/PROFILE EXISTING GRADE
EX. COMPOST SOCK	X-SECTION/PROFILE WATER SURFACE
EX. SUPER SILT FENCE	X-SECTION/PROFILE CULVERT
EX. SILT FENCE	MATCHLINE
APPROX. LOCATION OF SLIDE AREA	EX. MUSTER AREA
APPROX. LOCATION OF BORROW/ SPOIL AREA	EX. MAILBOX
PR. TOE BENCH	EX. TEG
EX. APPROX. SURFACE & SUB-SURFACE WELL LINE AREA	EX. VRT
EX. APPROX. SURFACE & SUB-SURFACE BLOW-DOWN/DUMP LINE AREA	EX. FLARE DRUM & BLOW CASE
EX. ESD & APPROX. SURFACE & SUB-SURFACE ESD LINE	EX. METER SKID
EX. APPROX. SURFACE & SUB-SURFACE SALES LINE AREA	EX. REBOILER
EX. CONDENSATE LINE	EX. DEMY W/ REBOILER
EX. PRODUCED WATER LINE	EX. STORAGE TANK
EX. FLASH GAS/MAKEUP GAS/ FUEL SUPPLY LINE	EX. STABILIZER
EX. ABOVE-GND VAPOR LINE	
EX. SECONDARY CONTAINMENT	

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CORPORATION

LEGEND
RAYLE COAL
WELL PAD
RICHLAND DISTRICT
OHIO COUNTY, WEST VIRGINIA



DATE: 03/18/2026
SCALE: N/A
SHEET 2 OF 7

OVERALL PLAN SHEET INDEX

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

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SHEET 5

SHEET 4

SHEET 5

SHEET 4

TM R6-17.6
KIRI DELANCEY

TM R6-17.10
DIANE HERBERT - TOD

TM R6-24
RANDALL LEE CRABTREE

TM R6-24.6
RICHARD A. WOOD JR.

TM R6-24.5
GWENDOLYN
GOBARD

TM R6-22.1
GWENDOLYN
GOBARD

TM R6-20.1
TERRY LEE CRUPE

TM R6-22
CHARLES R. VOLZ

TM R6-17.8
ESTER & TONY JOWETT

TM R6-17.6
MARIA & GEORGE
PAHOUNDIS

TM R6-17.7
BRUNER LAND
COMPANY INC.

TM R6-17.8
ESTER & TONY JOWETT

TM R6-17.9
MARIA & GEORGE
PAHOUNDIS

TM R6-17.8
KIRI DELANCEY

TM R6-17.7
BRUNER LAND
COMPANY INC.

WELL
PAD

ACCESS
ROAD "A"

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100 0 100
GRAPHIC SCALE (IN FEET)

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OVERALL PLAN SHEET INDEX

RAYLE COAL
WELL PAD
RICHLAND DISTRICT
OHIO COUNTY, WEST VIRGINIA



DATE: 03/18/2026

SCALE: 1" = 100'

SHEET 3 OF 7

[illegible]

DATE: 03/18/2026
SCALE: 1" = 50'
SHEET 4 OF 7

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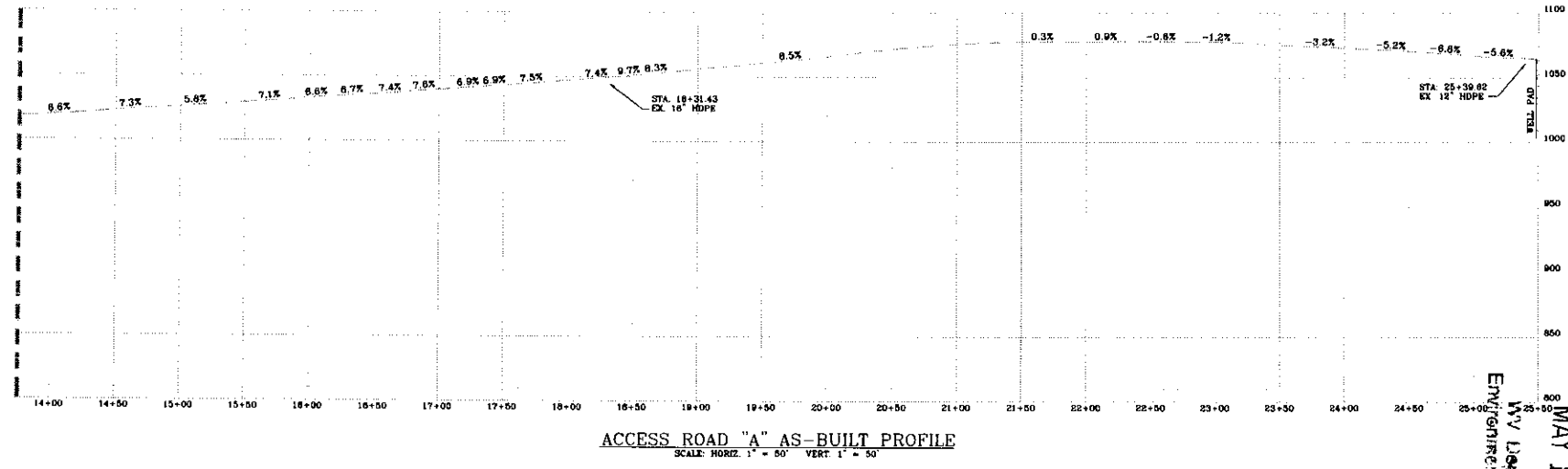
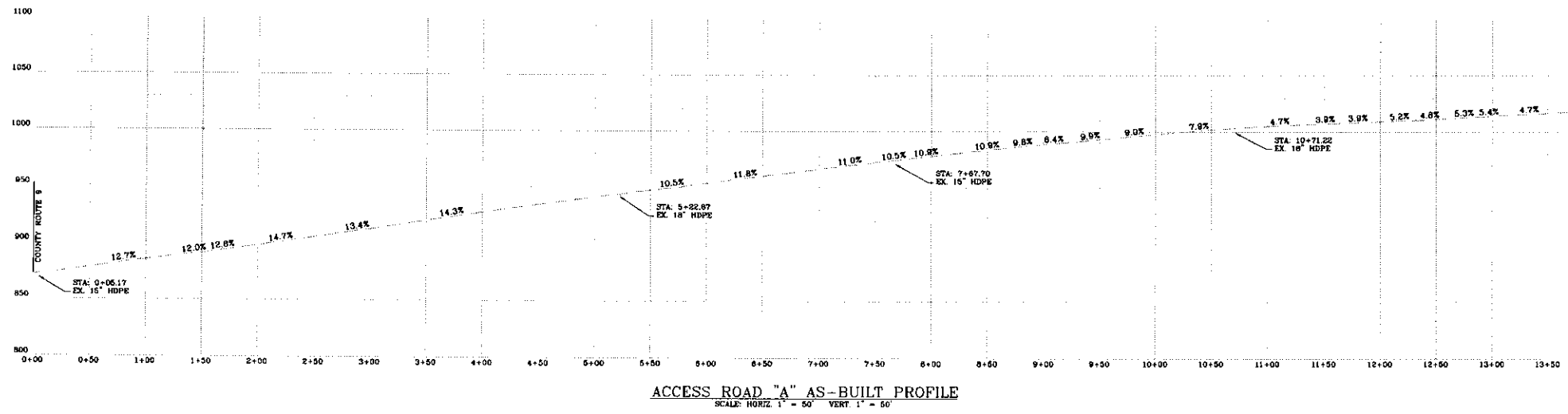
[illegible]

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SCALE: 1" = 50'

SHEET 5 OF 7

ACCESS ROAD AS-BUILT PROFILES



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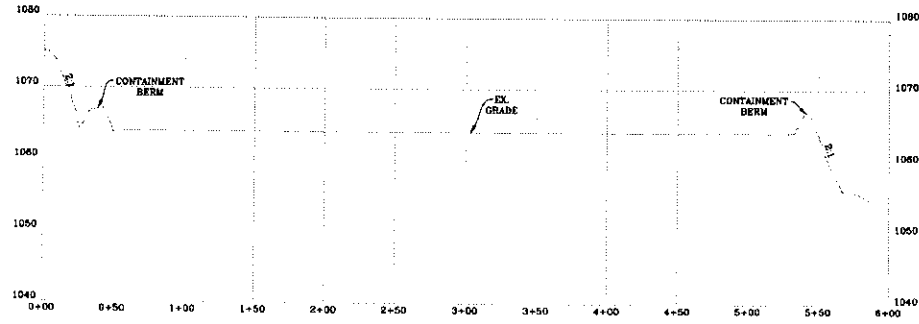
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ACCESS ROAD AS-BUILT PROFILES
RAYLE COAL
WELL PAD
RICHLAND DISTRICT
OHIO COUNTY, WEST VIRGINIA

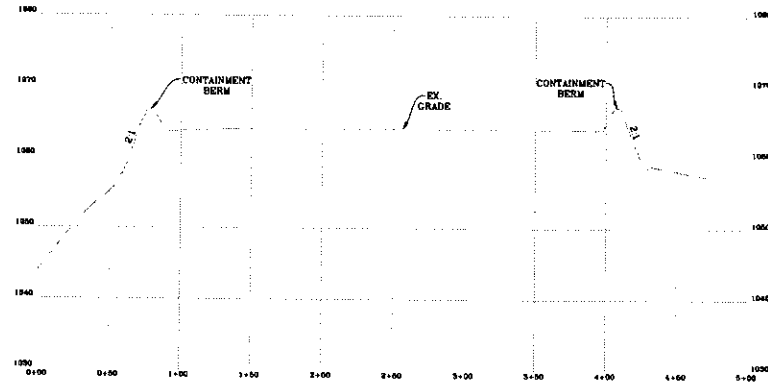
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
03/18/2026

DATE: 03/18/2026
SCALE: AS SHOWN
SHEET 6 OF 7

WELL PAD AS-BUILT SECTIONS



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



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

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WELL PAD AS-BUILT SECTIONS
RAYLE COAL
WELL PAD
RICHLAND DISTRICT
OHIO COUNTY, WEST VIRGINIA



DATE: 03/18/2026
SCALE: AS SHOWN
SHEET 7 OF 7