



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

Friday, November 15, 2024
WELL WORK PERMIT
Horizontal 6A / New Drill

DIVERSIFIED PRODUCTION LLC
101 MCQUISTON DRIVE

JACKSON CENTER, PA 16133

Re: Permit approval for Abbey South 2MH
47-033-06043-00-00

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

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

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

James A. Martin
Chief

Operator's Well Number: Abbey South 2MH
Farm Name: Long Ridge West Virginia LLC
U.S. WELL NUMBER: 47-033-06043-00-00
Horizontal 6A New Drill
Date Issued: 11/15/2024

PERMIT CONDITIONS 4703306043

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.

11/29/2024



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Harold D. Ward, Cabinet Secretary
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**ORDER
ISSUED UNDER
WEST VIRGINIA CODE, CHAPTER 22, ARTICLE 6A**

TO: Diversified Production, LLC
101 McQuiston Drive
Jackson Center, PA 16133

DATE: November 15, 2024
ORDER NO.: 2024-W-4

INTRODUCTION

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

FINDINGS OF THE CHIEF

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

1. OOG, an office within the West Virginia Department of Environmental Protection, is the agency with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 *et seq.*, and the rules and regulations promulgated thereunder.
2. Diversified is a “person” as defined by W. Va. Code §22-6-1(n), with a corporate address as 101 McQuiston Drive, Jackson Center, PA 16133.
3. On October 4, 2024, Diversified submitted a well work permit application identified as API# 47-033-06043. The well is located on the Abbey Pad in the Clay District of Harrison County, West Virginia.
4. On October 4, 2024, Diversified requested a waiver for perennial stream Booths Creek, as outlined in Attachment 1, from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-033-06043.

11/29/2024

CONCLUSIONS OF LAW

1. West Virginia Code §22-1-6(d) requires, in part, that “in addition to other powers, duties and responsibilities granted and assigned to the secretary by this chapter, the secretary is authorized and empowered to...(3) Enter private lands to make surveys and inspections for environmental protection purposes; to investigate for violations of statutes or rules which the Office of Oil and Gas is charged with enforcing; to serve and execute warrants and processes; to make arrests; issue orders, which for the purposes of this chapter include consent agreements; and to otherwise enforce the statutes or rules which the Office of Oil and Gas is charged with enforcing.”
2. West Virginia Code §22-6A-2(a)(6) requires, in part, that “Concomitant with the broad powers to condition the issuance of well work permits, the secretary should also have broad authority to waive certain minimum requirements of this article when, in his or her discretion, such waiver is appropriate: *Provided*, That the secretary shall submit a written report of the number of waivers granted to the Legislature commencing January 1, 2013, and each year thereafter.”
3. West Virginia Code §22-6A-12(b) requires, in part, that “no well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the Office of Oil and Gas shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The Office of Oil and Gas may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary.”

ORDER

4703306043

West Virginia Code §22-6A-12(b) requires, in part, that “no well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland. The Office of Oil and Gas grants the request for a waiver for the perennial stream Booths Creek from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-033-06043. The Office of Oil and Gas hereby **ORDERS** that Diversified shall meet the following site construction and operational requirements for the Abbey Well Pad:

- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24”) in height;
- b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment controlling BMPs;
- c. The perennial stream Booths Creek shall be protected by the pad perimeter berm eighteen inch (18”) Compost Filter Sock and forty-two inch (42”) Smart Fence. This along with temporary and permanent vegetative cover will prevent sediment from reaching the wetlands
- d. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual;
- e. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill;
- f. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill;
- g. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls;
- h. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs;
- i. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (½”) rain within any twenty-four (24) hour period;
- j. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies;
- k. All records from inspections shall be maintained on site for the life of the project and be available upon request.

47 0330 6043

Thus ORDERED, the 15th day of November 2024.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

By:



JAMES A. MARTIN, CHIEF

4703306043

11/3/14

Wetland and Perennial Stream Waiver Request

API Number: 47-033-06043

Operator's Well Number: 2MH

Well Operator: Diversified Production, LLC

Well Number: 2MH

Well Pad Name: Abbey Well Pad

County, District, Quadrangle of Well Location: Harrison County - Clay - Rosemont Quadrangle

Answer the questions below to request a waiver from West Virginia Department of Environmental Protection for any wetlands or perennial streams which lie within one hundred feet of proposed project Limit of Disturbance (LOD), which includes any erosion and sediment control devices to be used.

This waiver shall be requested pursuant to Chapter 22 Article 6A Section 12 of West Virginia Code, which states:

§22-6A-12(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.

§22-6A-12(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.

11/29/2024

Answer in the space provided, or use additional pages as necessary to fully answer the questions below:

- 1. Describe the proposed project location, including unique identifying names of all wetlands, and the names of perennial streams for which the waiver is sought.**

The project site is located in Harrison County, West Virginia, with approximate central coordinates N 39.373545° W 80.200870°. The project will be accessed via an access road originating from Middletown Road (County Route 73/73), at approximate coordinates N 39.373609° W 80.201663°. The proposed project area is adjacent to one perennial stream. The following is the identified water body, including its identifying name and type, which has a 100' buffer within the Limit of Disturbance (LOD). TTG Stream Booths Creek (PER).

- 2. Justify the proposed activity by describing alternatives to this project that were considered.**

- a. Include a No-Action Alternative as to show "the future without the project"
- b. Location Alternatives must be shown
- c. Must demonstrate why a one hundred foot buffer cannot be maintained
- d. Describe how the proposed project is the least environmentally damaging practicable alternative

The development of a natural gas well site presents a valuable economic opportunity for the community and the energy sector. Failure to implement the project would result in the loss of potential jobs, revenue, and energy production. The project has been designed with environmental conservation in mind while avoiding aquatic features. In evaluating potential location alternatives, various sites were considered. However, the chosen site was selected based on a number of factors, including proximity to resources, geologic suitability, access to infrastructure, and minimal environmental impact. Given the proximity to the nearby perennial stream, adhering to a 100-foot buffer around the stream would not allow for safe or effective operations to occur. The project design prioritizes the avoidance of all impacts to streams.

- 3. Identify sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. This description should include all additional erosion and sediment control measures and devices that will be used.**

To ensure the safeguarding of aquatic resources, a comprehensive set of measures, facilities, and practices will be employed. While lower strength E&S controls such as 18-Inch compost filter sock could be used based upon the contributing drainage area, as an added best management practice Smart Fence 42 will be used as perimeter control to protect the perennial stream. Check dams will be placed strategically along the construction and access roads to slow the flow of storm water, allowing sediment to settle before reaching water bodies. Diversion channels will be constructed to divert clean storm water runoff away from sensitive areas, reducing the potential for erosion and sediment transport. Exposed soils within the construction area will be stabilized using erosion control blankets, native vegetation, tracking, smooth drum rolling or other suitable methods to prevent soil erosion. Erosion and sediment control measures will be inspected at minimum, once every 7 calendar days and within 24 hours after any storm event greater than .5" per 24-hour period. Any required repairs or maintenance will be made immediately. Perimeter berms and pad sumps with an automatic pump with shut off will be utilized on the Well Pad to prevent spills or contaminated runoff from leaving the site.

- 4. Provide mapping, plans, specifications and design analysis for the preferred alternative to the project.**

- a. Specify in writing what additional controls, measures, devices, monitoring, etc. will be used to protect these wetlands and/or perennial streams for which the waiver is sought.

As shown on the Erosion and Sediment control plans and mentioned in the above section, Smart Fence 42 will be in areas within the 100-foot restriction buffer as an added measure of protection for the aquatic resources. Lower strength E&S controls such as 18-Inch compost filter sock could be used for erosion and sediment control. However, as an added level of protection for being within the perennial stream buffer Smart Fence 42 will be installed. Additionally, Perimeter berms and sumps with an automatic pump with shut off shall be utilized on the Well Pad to prevent any spills or contaminated runoff from impacting the aquatic features. The Limit of Disturbance (LOD) will be clearly marked to prevent inadvertent encroachment.

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

1) Well Operator: Diversified Production, LLC 494524121 Harrison Clay - O. Rosemont 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Abbey South 2MH Well Pad Name: Abbey

3) Farm Name/Surface Owner: Long Ridge West Virginia LLC Public Road Access: 73/73 Middletown Road

4) Elevation, current ground: 996.78' Elevation, proposed post-construction: 996.75'

5) Well Type (a) Gas Oil Underground Storage

Other _____

(b) If Gas Shallow Deep

Horizontal

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Formation = Marcellus Shale, Depth = 7,425', Thickness = 130', Pressure = 4,317 psi

8) Proposed Total Vertical Depth: 7,415'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 27,728'

11) Proposed Horizontal Leg Length: 19,944'

12) Approximate Fresh Water Strata Depths: 65', 160'

13) Method to Determine Fresh Water Depths: Offset well - 47-091-00062

14) Approximate Saltwater Depths: 768'

15) Approximate Coal Seam Depths: Sewickley Coal - 25', Freeport Coal - 623'

16) Approximate Depth to Possible Void (coal mine, karst, other): None anticipated

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No

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

Depth: _____

Seam: _____

Owner: _____

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18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft./CTS)
Conductor	20"	New	A	52.78	100'	100'	151ft ³ /CTS
Fresh Water/Coal	13.375"	New	H40	48	750'	750'	521ft ³ /CTS
Intermediate	9.625"	New	J55	36	2,545'	2,545'	797ft ³ /CTS
Production	5.5"	New	HP P110	20	27,728'	27,728'	4,998ft ³ /5,911ft
Tubing	2.375"	New	L80	4.7	N/A	8,000'	N/A
Liners	N/A	N/A	N/A	N/A	N/A	N/A	N/A

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	26"	0.25"	450	90	Ready Mix	N/A
Fresh Water/Coal	13.375"	17.5"	0.33"	1,730	610	Class A	1.19
Intermediate	9.625"	12.25"	0.352"	3,520	2,070	Class A	1.19 - 1.88
Production	5.5"	8.5"	0.361"	14,360	12,924	Class A	1.19 - 1.55
Tubing	2.375"	N/A	0.19	11,200	6,475	N/A	N/A
Liners	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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PACKERS

Kind:				
Sizes:				
Depths Set:				

WV Department of
Environmental Protection

Ky Willett
9/24/24

WW-6B
(10/14)

API NO. 47- 033

OPERATOR WELL NO. Abbey South 2MH

Well Pad Name: Abbey

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

Drill the vertical portion of the well (setting casing and cementing per proposed plan) to an anticipated depth of 6,911' and continue to drill the curve and horizontal leg per the proposed plan in the Marcellus formation to an estimated horizontal length of 19,944' (27,728'TMD). Run and cement production casing. Perform CBL and stimulate per plan.

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

The stimulation will be completed with multiple stages divided over the lateral length of the well. Stage spacing and proppant used will be dependent on engineering design. Slickwater fracturing technique will be utilized on each stage consisting of water, sand and chemicals (outlined in the Site Safety Plan SDS sheets). Maximum pump rate not to exceed 120 bbl/min and maximum pressure not to exceed 90% of production casing burst rating.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 5.98 acres

22) Area to be disturbed for well pad only, less access road (acres): 2.52 acres

23) Describe centralizer placement for each casing string:

Conductor: None
Fresh Water: Every 3rd joint from shoe to surface
Intermediate: Every 3rd joint from shoe to surface
Production: Every other joint from shoe to Top of Cement

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WV Department of
Environmental Protection

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

Conductor: None - Typical construction Ready Mix Used
Fresh Water: Class A with 1-3% Calcium Chloride and up to 1 lb/sk super flake LCM
Intermediate: Class A with POZ or equivalent to reduce density in lead, 1-3% Calcium Chloride, Fluid Loss/Gas Migration additive, anti-foaming additive, Retarder and up to 1 lb/sk super flake or Mica LCM
Production: Class A with POZ or equivalent to reduce density in lead, 1-3% Calcium Chloride, Fluid Loss/Gas Migration additive, anti-foaming additive, Retarder, and up to 1 lb/sk super flake or Mica LCM

25) Proposed borehole conditioning procedures:

Conductor: Hole is auger drilled: No conditioning required.
Fresh Water: Condition hole with air or FW at TD until visibly clean; pumping FW sweeps if needed, run casing, circulate and clear 1.5x pipe volume with water before cementing.
Intermediate: Condition hole with air or water based drilling fluid at TD until visibly clean; pumping sweeps if needed, run casing, circulate and clear 1.5x pipe volume with water before cementing.
Production: Circulate hole with synthetic based drilling fluid at TD until hole is clean and free of excess gas above background. TOOH and circulate minimum of 1 bottoms up and until returns are minimal at the base of the curve. Run casing, circulate and ensure good returns and low gas before cementing.

*Note: Attach additional sheets as needed.

Ky Wellb
9/24/24

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Area of Review for Communication Purposes Report

Abbey South 2MH

API Number	Operator Name	Total Depth	Perforated Formations	Producing zones not Perforated	Is this well "known or reasonably expected to penetrate a depth that could be within range of Fracture propagation"?	Comments
47-091-00062	unknown	unknown	unknown	unknown	no	orphaned well

This report was compiled using data from the WVDEP website, WVGES Interactive Mapping tool and Enverus drilling information.

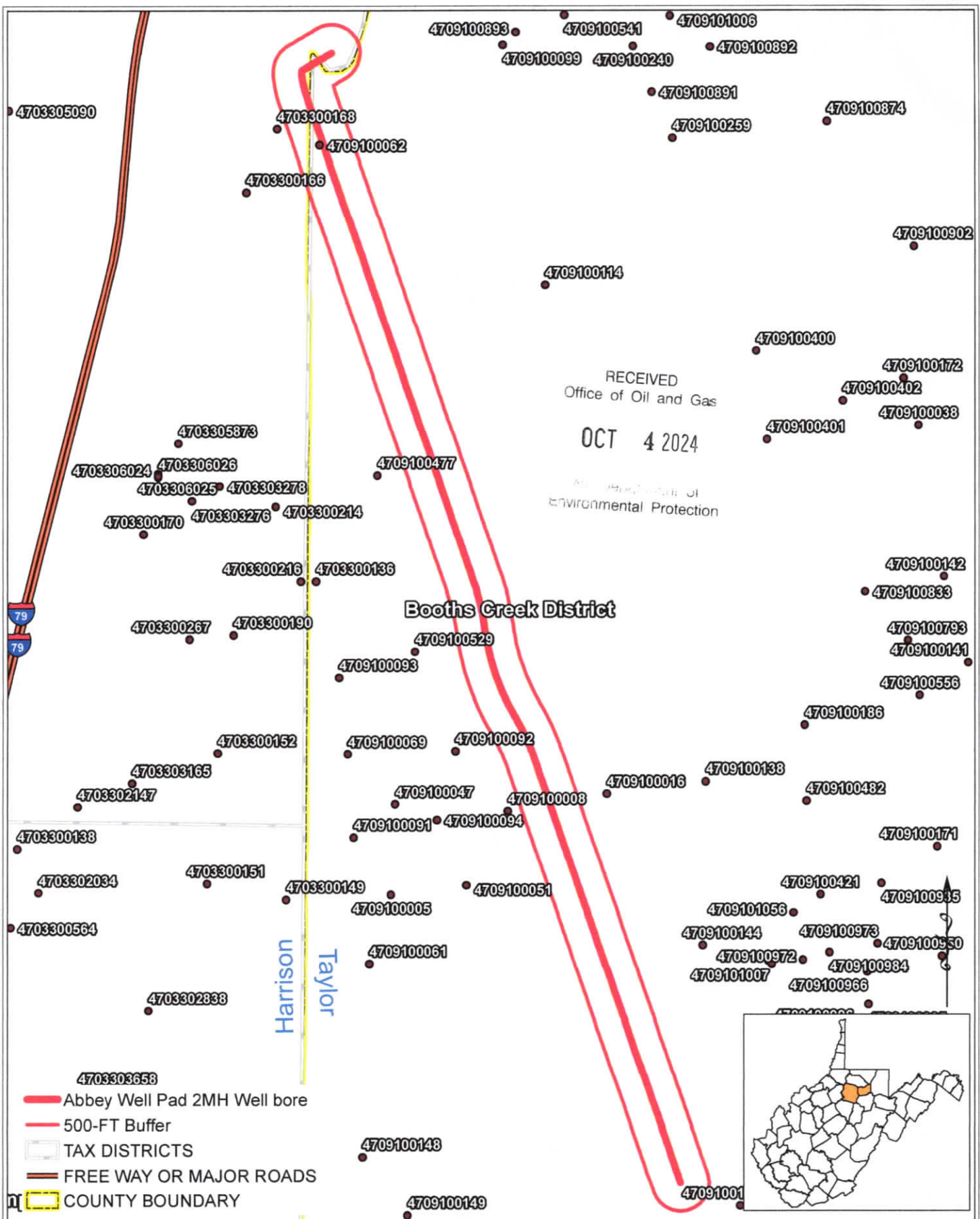
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Document Path: R:\070170-11275 - DGOC - Abbey Well Pad\Drawing\Final Design\Exhibit\Site Safety\AbbeyWellPad-2MH-AreaofReview.mxd



- 4703303658
- Abbey Well Pad 2MH Well bore
- 500-FT Buffer
- TAX DISTRICTS
- FREE WAY OR MAJOR ROADS
- COUNTY BOUNDARY

Abbey Well Pad: 2MH
 Clay/Booth's Creek/Districts
 Harrison & Taylor Counties - West Virginia

THRASHER

1 inch = 2,200 feet

11/29/2024



SECTION DETAILS										
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V/Sect	Annotation	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP: Begin 2.00° Build	
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00	Hold 9.05° Tangent	
3452.40	9.05	239.44	3450.52	-18.12	-30.70	2.00	239.44	7.11	Hold 10.00° Build/Turn	
8911.43	9.05	239.44	8986.52	-294.67	-499.13	0.00	0.00	115.62	Hold 89.00° Lateral	
7783.57	89.00	180.95	7415.00	-854.10	-394.97	10.00	-78.78	678.41	Begin 1.50° Turn	
16683.57	89.00	180.95	7570.33	-9265.61	-2508.89	0.00	0.00	9577.05	Hold 171.50° Az	
17386.52	89.00	171.50	7582.63	-9947.28	-2675.98	1.50	90.09	10275.93	Begin 1.50° Turn	
17586.52	89.00	171.50	7586.12	-10145.05	-2705.54	0.00	0.00	10472.52	Continue 1.50° Turn	
19082.35	89.04	149.01	7612.03	-11543.72	-3207.52	1.50	-90.09	11958.43	Hold 180.95° Az	
19876.36	89.00	180.95	7625.65	-12261.83	-3542.66	1.50	90.30	12746.60	PBHL - 27727.55' MD	
27727.55	89.00	180.95	7762.68	-19681.94	-6104.77	0.00	0.00	20596.60		

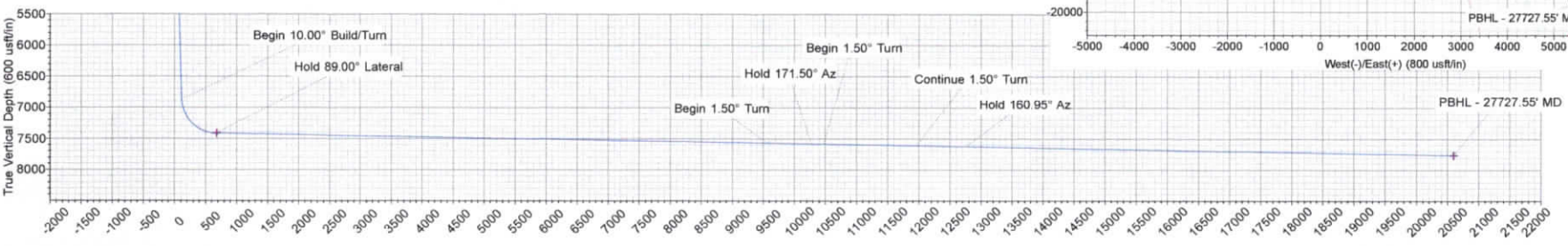
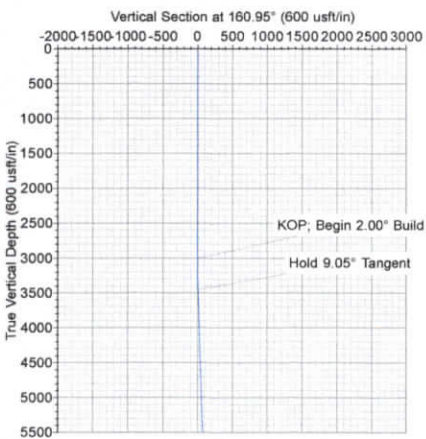
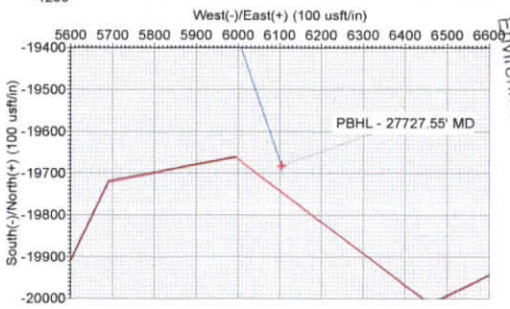
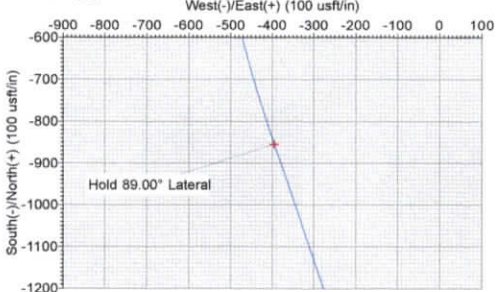
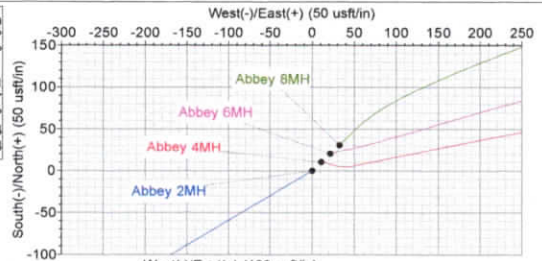
DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LP v3 - Abbey 2MH	7415.00	-854.10	-394.97	318122.38	1769922.40	39.371285	-80.202436
PBHL v4 - Abbey 2MH	7762.68	-19681.94	-6104.77	299294.53	1776422.14	39.319732	-80.178942

Project: Harrison County, WV (NAD83 - GRID)
 Site: Abbey Pad
 Well: Abbey 2MH
 Wellbore: Wellbore #1
 Design: Design #4

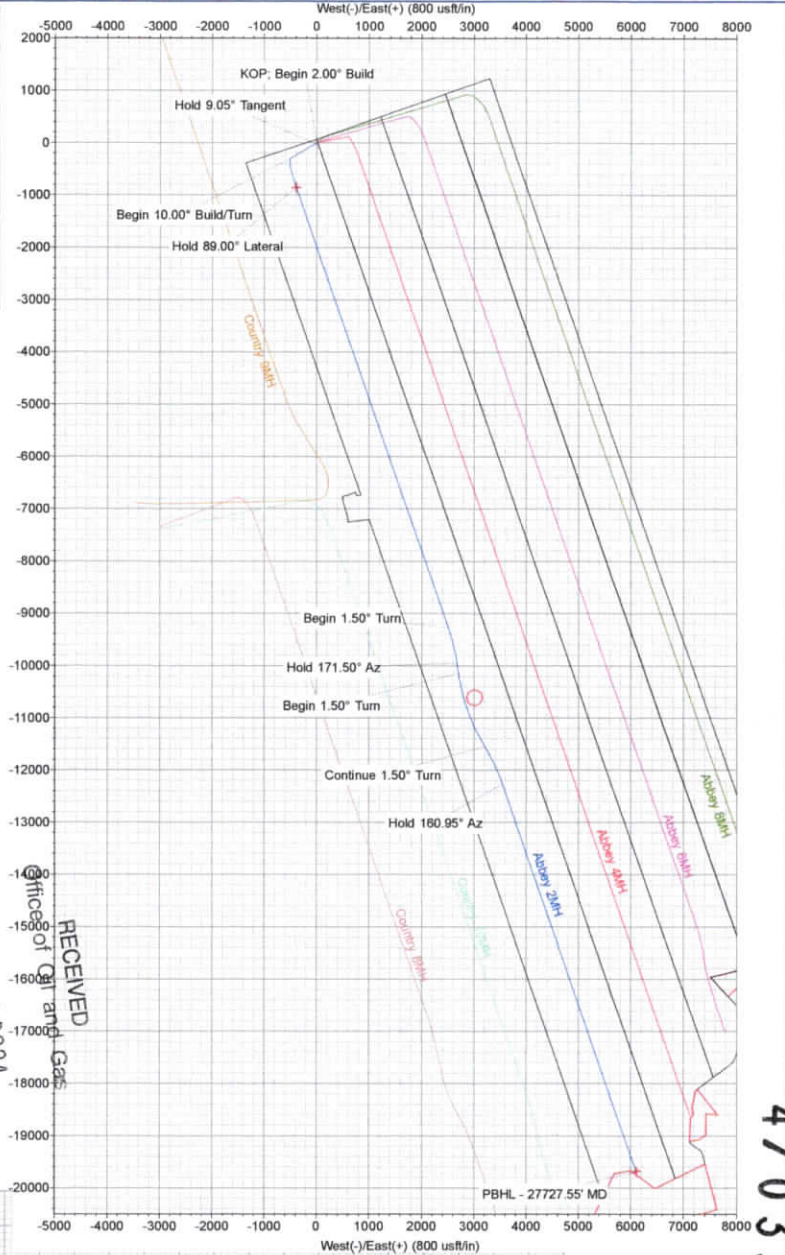
Abbey 2MH



M T Azimuths to Grid North
 True North: 0.45°
 Magnetic North: -8.92°
 Magnetic Field Strength: 51467.2nT
 Dip Angle: 65.73°
 Date: 10/1/2024
 Model: HDGM2024



Vertical Section at 160.95° (600 usft/in)



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 Office of Oil and Gas
 Environmental Protection

4703306043

4703306043

Diversified Production, LLC

Harrison County, WV (NAD83 - GRID)

Abbey Pad

Abbey 2MH

Wellbore #1

Plan: Design #4



Standard Plan Report

09 September, 2024

Total Report Version 1.70
COMPASS 5000.16 Build 97

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OCT 4 2024

WV Department of
Environmental Protection



Company: Diversified Production, LLC	Local Co-ordinate Reference: Well Abbey 2MH	
Project: Harrison County, WV (NAD83 - GRID)	TVD Reference: WELL @ 1024.00usft (28' RKB)	
Site: Abbey Pad	MD Reference: WELL @ 1024.00usft (28' RKB)	
Well: Abbey 2MH	North Reference: Grid	
Wellbore: Wellbore #1	Survey Calculation Method: Minimum Curvature	
Design: Design #4	Database: .Total Directional Production DB	

Project Harrison County, WV (NAD83 - GRID)	System Datum: Mean Sea Level	
Map System: US State Plane 1983		
Geo Datum: North American Datum 1983		
Map Zone: West Virginia Northern Zone		

Site Abbey Pad			
Site Position:		Northing: 319,064.16 usft	Latitude: 39.373884
From: Map		Easting: 1,770,510.16 usft	Longitude: -80.200383
Position Uncertainty: 0.00 usft		Slot Radius: 13-3/16 "	

Well Abbey 2MH			
Well Position		Northing: 318,976.47 usft	Latitude: 39.373639
+N/-S 0.00 usft		Easting: 1,770,317.37 usft	Longitude: -80.201062
+E/-W 0.00 usft		Wellhead Elevation: usft	Ground Level: 996.00 usft
Position Uncertainty 0.00 usft			
Grid Convergence: -0.45 °			

Wellbore Wellbore #1						
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)	
	HDGM2024	10/1/2024	-9.37	65.73	51,467.20000000	

Design Design #4						
Audit Notes:						
Version:	Phase: PLAN	Tie On Depth:				0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)		
	0.00	0.00	0.00	160.95		

Survey Tool Program Date 9/9/2024				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	27,727.55	Design #4 (Wellbore #1)	MWD+HRGM	OWSG MWD + HRGM

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Well: Abbey 2MH	North Reference: Grid	
Wellbore: Wellbore #1	Survey Calculation Method: Minimum Curvature	
Design: Design #4	Database: .Total Directional Production DB	

Plan Summary

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,452.40	9.05	239.44	3,450.52	-18.12	-30.70	2.00	2.00	0.00	239.44	
6,911.43	9.05	239.44	6,866.52	-294.67	-499.13	0.00	0.00	0.00	0.00	
7,783.57	89.00	160.95	7,415.00	-854.10	-394.97	10.00	9.17	-9.00	-78.78	LP v3 - Abbey 2MH
16,683.57	89.00	160.95	7,570.33	-9,265.61	2,508.89	0.00	0.00	0.00	0.00	
17,386.52	89.00	171.50	7,582.63	-9,947.28	2,675.98	1.50	0.00	1.50	90.09	
17,586.52	89.00	171.50	7,586.12	-10,145.05	2,705.54	0.00	0.00	0.00	0.00	
19,082.35	89.04	149.01	7,612.03	-11,543.72	3,207.52	1.50	0.00	-1.50	-90.09	
19,876.36	89.00	160.95	7,625.65	-12,261.83	3,542.66	1.50	-0.01	1.50	90.30	
27,727.55	89.00	160.95	7,762.68	-19,681.94	6,104.77	0.00	0.00	0.00	0.00	PBHL v4 - Abbey 2I

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates (usft)		Map Coordinates (usft)		Geo Coordinates (°)		Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
				+N/-S	+E/-W	Northing	Easting	Latitude	Longitude				
0.00	0.00	0.00	0.00	0.00	0.00	318,976.47	1,770,317.37	39.373639	-80.201062	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	318,976.47	1,770,317.37	39.373639	-80.201062	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	318,976.47	1,770,317.37	39.373639	-80.201062	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	318,976.47	1,770,317.37	39.373639	-80.201062	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	318,976.47	1,770,317.37	39.373639	-80.201062	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	318,976.47	1,770,317.37	39.373639	-80.201062	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	318,976.47	1,770,317.37	39.373639	-80.201062	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	318,976.47	1,770,317.37	39.373639	-80.201062	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	318,976.47	1,770,317.37	39.373639	-80.201062	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	318,976.47	1,770,317.37	39.373639	-80.201062	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	318,976.47	1,770,317.37	39.373639	-80.201062	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	318,976.47	1,770,317.37	39.373639	-80.201062	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	318,976.47	1,770,317.37	39.373639	-80.201062	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	318,976.47	1,770,317.37	39.373639	-80.201062	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	318,976.47	1,770,317.37	39.373639	-80.201062	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	318,976.47	1,770,317.37	39.373639	-80.201062	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	318,976.47	1,770,317.37	39.373639	-80.201062	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	318,976.47	1,770,317.37	39.373639	-80.201062	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	318,976.47	1,770,317.37	39.373639	-80.201062	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	318,976.47	1,770,317.37	39.373639	-80.201062	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	318,976.47	1,770,317.37	39.373639	-80.201062	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	318,976.47	1,770,317.37	39.373639	-80.201062	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	318,976.47	1,770,317.37	39.373639	-80.201062	0.00	0.00	0.00	0.00



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Planned Survey Report



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Site:	Abbey Pad	MD Reference:	WELL @ 1024.00usft (28' RKB)
Well:	Abbey 2MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #4	Database:	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (")	AZI (")	Vertical Depth (usft)	Local Coordinates (usft)		Map Coordinates (usft)		Geo Coordinates (")		Vertical Section (usft)	Dogleg Rate ("/100usft)	Build Rate ("/100usft)	Turn Rate ("/100usft)
				+N/-S	+E/-W	Northing	Easting	Latitude	Longitude				
2,300.00	0.00	0.00	2,300.00	0.00	0.00	318,976.47	1,770,317.37	39.373639	-80.201062	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	318,976.47	1,770,317.37	39.373639	-80.201062	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	318,976.47	1,770,317.37	39.373639	-80.201062	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	318,976.47	1,770,317.37	39.373639	-80.201062	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	318,976.47	1,770,317.37	39.373639	-80.201062	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	318,976.47	1,770,317.37	39.373639	-80.201062	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	318,976.47	1,770,317.37	39.373639	-80.201062	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	318,976.47	1,770,317.37	39.373639	-80.201062	0.00	0.00	0.00	0.00
3,100.00	2.00	239.44	3,099.98	-0.89	-1.50	318,975.59	1,770,315.86	39.373636	-80.201068	0.35	2.00	2.00	0.00
3,200.00	4.00	239.44	3,199.84	-3.55	-6.01	318,972.93	1,770,311.36	39.373629	-80.201084	1.39	2.00	2.00	0.00
3,300.00	6.00	239.44	3,299.45	-7.98	-13.51	318,968.49	1,770,303.85	39.373617	-80.201110	3.13	2.00	2.00	0.00
3,400.00	8.00	239.44	3,398.70	-14.17	-24.01	318,962.30	1,770,293.36	39.373599	-80.201147	5.56	2.00	2.00	0.00
3,452.40	9.05	239.44	3,450.52	-18.12	-30.70	318,958.35	1,770,286.67	39.373588	-80.201170	7.11	2.00	2.00	0.00
3,500.00	9.05	239.44	3,497.53	-21.93	-37.14	318,954.55	1,770,280.22	39.373578	-80.201193	8.60	0.00	0.00	0.00
3,600.00	9.05	239.44	3,596.29	-29.92	-50.68	318,946.55	1,770,266.68	39.373556	-80.201241	11.74	0.00	0.00	0.00
3,700.00	9.05	239.44	3,695.04	-37.92	-64.23	318,938.56	1,770,253.14	39.373533	-80.201289	14.88	0.00	0.00	0.00
3,800.00	9.05	239.44	3,793.80	-45.91	-77.77	318,930.56	1,770,239.60	39.373511	-80.201336	18.01	0.00	0.00	0.00
3,900.00	9.05	239.44	3,892.55	-53.91	-91.31	318,922.57	1,770,226.06	39.373489	-80.201384	21.15	0.00	0.00	0.00
4,000.00	9.05	239.44	3,991.31	-61.90	-104.85	318,914.57	1,770,212.51	39.373467	-80.201432	24.29	0.00	0.00	0.00
4,100.00	9.05	239.44	4,090.06	-69.90	-118.40	318,906.58	1,770,198.97	39.373444	-80.201479	27.43	0.00	0.00	0.00
4,200.00	9.05	239.44	4,188.82	-77.89	-131.94	318,898.58	1,770,185.43	39.373422	-80.201527	30.56	0.00	0.00	0.00
4,300.00	9.05	239.44	4,287.58	-85.89	-145.48	318,890.59	1,770,171.89	39.373400	-80.201575	33.70	0.00	0.00	0.00
4,400.00	9.05	239.44	4,386.33	-93.88	-159.02	318,882.59	1,770,158.35	39.373378	-80.201622	36.84	0.00	0.00	0.00
4,500.00	9.05	239.44	4,485.09	-101.88	-172.56	318,874.60	1,770,144.80	39.373355	-80.201670	39.97	0.00	0.00	0.00
4,600.00	9.05	239.44	4,583.84	-109.87	-186.11	318,866.60	1,770,131.26	39.373333	-80.201718	43.11	0.00	0.00	0.00
4,700.00	9.05	239.44	4,682.60	-117.87	-199.65	318,858.61	1,770,117.72	39.373311	-80.201765	46.25	0.00	0.00	0.00
4,800.00	9.05	239.44	4,781.35	-125.86	-213.19	318,850.61	1,770,104.18	39.373289	-80.201813	49.38	0.00	0.00	0.00
4,900.00	9.05	239.44	4,880.11	-133.86	-226.73	318,842.62	1,770,090.63	39.373267	-80.201861	52.52	0.00	0.00	0.00
5,000.00	9.05	239.44	4,978.87	-141.85	-240.28	318,834.62	1,770,077.09	39.373244	-80.201908	55.66	0.00	0.00	0.00
5,100.00	9.05	239.44	5,077.62	-149.85	-253.82	318,826.63	1,770,063.55	39.373222	-80.201956	58.80	0.00	0.00	0.00
5,200.00	9.05	239.44	5,176.38	-157.84	-267.36	318,818.63	1,770,050.01	39.373200	-80.202004	61.93	0.00	0.00	0.00
5,300.00	9.05	239.44	5,275.13	-165.84	-280.90	318,810.64	1,770,036.47	39.373178	-80.202051	65.07	0.00	0.00	0.00
5,400.00	9.05	239.44	5,373.89	-173.83	-294.44	318,802.64	1,770,022.92	39.373155	-80.202099	68.21	0.00	0.00	0.00
5,500.00	9.05	239.44	5,472.64	-181.83	-307.99	318,794.65	1,770,009.38	39.373133	-80.202147	71.34	0.00	0.00	0.00
5,600.00	9.05	239.44	5,571.40	-189.82	-321.53	318,786.65	1,769,995.84	39.373111	-80.202194	74.48	0.00	0.00	0.00
5,700.00	9.05	239.44	5,670.16	-197.82	-335.07	318,778.66	1,769,982.30	39.373089	-80.202242	77.62	0.00	0.00	0.00
5,800.00	9.05	239.44	5,768.91	-205.81	-348.61	318,770.66	1,769,968.75	39.373066	-80.202290	80.75	0.00	0.00	0.00

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OCT 4 2024



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Planned Survey Report

WV Department of



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Project:	Harrison County, WV (NAD83 - GRID)	TVD Reference:	WELL @ 1024.00usft (28' RKB)
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Design:	Design #4	Database:	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (")	AZI (")	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Geo Coordinates		Vertical Section (usft)	Dogleg Rate ("/100usft)	Build Rate ("/100usft)	Turn Rate ("/100usft)
				+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude (")	Longitude (")				
5,900.00	9.05	239.44	5,867.67	-213.81	-362.15	318,762.67	1,769,955.21	39.373044	-80.202338	83.89	0.00	0.00	0.00
6,000.00	9.05	239.44	5,966.42	-221.80	-375.70	318,754.67	1,769,941.67	39.373022	-80.202385	87.03	0.00	0.00	0.00
6,100.00	9.05	239.44	6,065.18	-229.80	-389.24	318,746.68	1,769,928.13	39.373000	-80.202433	90.17	0.00	0.00	0.00
6,200.00	9.05	239.44	6,163.93	-237.79	-402.78	318,738.68	1,769,914.59	39.372977	-80.202481	93.30	0.00	0.00	0.00
6,300.00	9.05	239.44	6,262.69	-245.79	-416.32	318,730.69	1,769,901.04	39.372955	-80.202528	96.44	0.00	0.00	0.00
6,400.00	9.05	239.44	6,361.45	-253.78	-429.87	318,722.69	1,769,887.50	39.372933	-80.202576	99.58	0.00	0.00	0.00
6,500.00	9.05	239.44	6,460.20	-261.78	-443.41	318,714.70	1,769,873.96	39.372911	-80.202624	102.71	0.00	0.00	0.00
6,600.00	9.05	239.44	6,558.96	-269.77	-456.95	318,706.70	1,769,860.42	39.372888	-80.202671	105.85	0.00	0.00	0.00
6,700.00	9.05	239.44	6,657.71	-277.77	-470.49	318,698.71	1,769,846.87	39.372866	-80.202719	108.99	0.00	0.00	0.00
6,800.00	9.05	239.44	6,756.47	-285.76	-484.03	318,690.71	1,769,833.33	39.372844	-80.202767	112.12	0.00	0.00	0.00
6,900.00	9.05	239.44	6,855.22	-293.76	-497.58	318,682.72	1,769,819.79	39.372822	-80.202814	115.26	0.00	0.00	0.00
6,911.43	9.05	239.44	6,866.52	-294.67	-499.13	318,681.80	1,769,818.24	39.372819	-80.202820	115.62	0.00	0.00	0.00
6,950.00	10.50	218.21	6,904.53	-298.97	-503.91	318,677.50	1,769,813.46	39.372807	-80.202837	118.13	10.00	3.76	-55.05
7,000.00	13.81	200.21	6,953.42	-308.16	-508.79	318,668.31	1,769,808.57	39.372782	-80.202854	125.22	10.00	6.63	-36.00
7,050.00	17.92	189.67	7,001.52	-321.35	-512.15	318,655.12	1,769,805.22	39.372746	-80.202865	136.59	10.00	8.21	-21.09
7,100.00	22.38	183.08	7,048.45	-338.45	-513.96	318,638.02	1,769,803.41	39.372699	-80.202871	152.16	10.00	8.92	-13.18
7,150.00	27.03	178.62	7,093.87	-359.33	-514.19	318,617.15	1,769,803.17	39.372641	-80.202871	171.82	10.00	9.29	-8.91
7,200.00	31.77	175.40	7,137.42	-383.82	-512.86	318,592.65	1,769,804.50	39.372574	-80.202866	195.40	10.00	9.49	-6.44
7,250.00	36.58	172.94	7,178.78	-411.74	-509.98	318,564.73	1,769,807.39	39.372498	-80.202855	222.74	10.00	9.61	-4.91
7,300.00	41.42	170.99	7,217.62	-442.88	-505.55	318,533.59	1,769,811.81	39.372412	-80.202838	253.62	10.00	9.69	-3.91
7,350.00	46.30	169.38	7,253.66	-477.00	-499.63	318,499.47	1,769,817.74	39.372319	-80.202817	287.81	10.00	9.75	-3.22
7,400.00	51.19	168.01	7,286.63	-513.85	-492.24	318,462.63	1,769,825.12	39.372218	-80.202789	325.04	10.00	9.79	-2.74
7,450.00	56.10	166.82	7,316.26	-553.13	-483.46	318,423.34	1,769,833.91	39.372110	-80.202757	365.04	10.00	9.81	-2.38
7,500.00	61.02	165.76	7,342.33	-594.56	-473.34	318,381.91	1,769,844.02	39.371996	-80.202720	407.50	10.00	9.83	-2.12
7,550.00	65.94	164.79	7,364.65	-637.81	-461.97	318,338.66	1,769,855.40	39.371878	-80.202679	452.10	10.00	9.85	-1.93
7,600.00	70.87	163.90	7,383.05	-682.56	-449.43	318,293.91	1,769,867.94	39.371755	-80.202633	498.49	10.00	9.86	-1.79
7,650.00	75.81	163.06	7,397.38	-728.47	-435.81	318,248.00	1,769,881.56	39.371630	-80.202584	546.33	10.00	9.87	-1.68
7,700.00	80.74	162.26	7,407.54	-775.19	-421.22	318,201.29	1,769,896.15	39.371502	-80.202531	595.25	10.00	9.88	-1.61
7,750.00	85.68	161.47	7,413.44	-822.35	-405.76	318,154.12	1,769,911.60	39.371372	-80.202475	644.88	10.00	9.88	-1.57
7,783.57	89.00	160.95	7,415.00	-854.10	-394.97	318,122.38	1,769,922.40	39.371286	-80.202436	678.41	10.00	9.88	-1.55
7,800.00	89.00	160.95	7,415.29	-869.63	-389.61	318,106.85	1,769,927.76	39.371243	-80.202416	694.84	0.00	0.00	0.00
7,900.00	89.00	160.95	7,417.03	-964.14	-356.98	318,012.34	1,769,960.39	39.370984	-80.202298	794.82	0.00	0.00	0.00
8,000.00	89.00	160.95	7,418.78	-1,058.65	-324.35	317,917.82	1,769,993.02	39.370725	-80.202180	894.80	0.00	0.00	0.00
8,100.00	89.00	160.95	7,420.52	-1,153.16	-291.72	317,823.31	1,770,025.64	39.370467	-80.202062	994.79	0.00	0.00	0.00
8,200.00	89.00	160.95	7,422.27	-1,247.67	-259.10	317,728.80	1,770,058.27	39.370208	-80.201944	1,094.77	0.00	0.00	0.00
8,300.00	89.00	160.95	7,424.01	-1,342.18	-226.47	317,634.29	1,770,090.90	39.369949	-80.201826	1,194.76	0.00	0.00	0.00
8,400.00	89.00	160.95	7,425.76	-1,436.69	-193.84	317,539.78	1,770,123.53	39.369690	-80.201708	1,294.74	0.00	0.00	0.00
8,500.00	89.00	160.95	7,427.50	-1,531.21	-161.21	317,445.27	1,770,156.15	39.369432	-80.201590	1,394.73	0.00	0.00	0.00



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Planned Survey Report



Company:	Diversified Production, LLC	Local Co-ordinate Reference:	Well Abbey 2MH
Project:	Harrison County, WV (NAD83 - GRID)	TVD Reference:	WELL @ 1024.00usft (28' RKB)
Site:	Abbey Pad	MD Reference:	WELL @ 1024.00usft (28' RKB)
Well:	Abbey 2MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #4	Database:	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates (usft)		Map Coordinates (usft)		Geo Coordinates (°)		Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
				+N/-S	+E/-W	Northing	Easting	Latitude	Longitude				
8,600.00	89.00	160.95	7,429.25	-1,625.72	-128.58	317,350.76	1,770,188.78	39.369173	-80.201472	1,494.71	0.00	0.00	0.00
8,700.00	89.00	160.95	7,430.99	-1,720.23	-95.96	317,256.25	1,770,221.41	39.368914	-80.201354	1,594.70	0.00	0.00	0.00
8,800.00	89.00	160.95	7,432.74	-1,814.74	-63.33	317,161.73	1,770,254.04	39.368655	-80.201236	1,694.68	0.00	0.00	0.00
8,900.00	89.00	160.95	7,434.48	-1,909.25	-30.70	317,067.22	1,770,286.67	39.368396	-80.201118	1,794.67	0.00	0.00	0.00
9,000.00	89.00	160.95	7,436.23	-2,003.76	1.93	316,972.71	1,770,319.29	39.368138	-80.201000	1,894.65	0.00	0.00	0.00
9,100.00	89.00	160.95	7,437.98	-2,098.27	34.55	316,878.20	1,770,351.92	39.367879	-80.200882	1,994.64	0.00	0.00	0.00
9,200.00	89.00	160.95	7,439.72	-2,192.78	67.18	316,783.69	1,770,384.55	39.367620	-80.200764	2,094.62	0.00	0.00	0.00
9,300.00	89.00	160.95	7,441.47	-2,287.30	99.81	316,689.18	1,770,417.18	39.367361	-80.200646	2,194.61	0.00	0.00	0.00
9,400.00	89.00	160.95	7,443.21	-2,381.81	132.44	316,594.67	1,770,449.80	39.367103	-80.200528	2,294.59	0.00	0.00	0.00
9,500.00	89.00	160.95	7,444.96	-2,476.32	165.06	316,500.15	1,770,482.43	39.366844	-80.200410	2,394.58	0.00	0.00	0.00
9,600.00	89.00	160.95	7,446.70	-2,570.83	197.69	316,405.64	1,770,515.06	39.366585	-80.200292	2,494.56	0.00	0.00	0.00
9,700.00	89.00	160.95	7,448.45	-2,665.34	230.32	316,311.13	1,770,547.69	39.366326	-80.200174	2,594.55	0.00	0.00	0.00
9,800.00	89.00	160.95	7,450.19	-2,759.85	262.95	316,216.62	1,770,580.31	39.366067	-80.200056	2,694.53	0.00	0.00	0.00
9,900.00	89.00	160.95	7,451.94	-2,854.36	295.57	316,122.11	1,770,612.94	39.365809	-80.199938	2,794.52	0.00	0.00	0.00
10,000.00	89.00	160.95	7,453.68	-2,948.88	328.20	316,027.60	1,770,645.57	39.365550	-80.199820	2,894.50	0.00	0.00	0.00
10,100.00	89.00	160.95	7,455.43	-3,043.39	360.83	315,933.09	1,770,678.20	39.365291	-80.199702	2,994.49	0.00	0.00	0.00
10,200.00	89.00	160.95	7,457.17	-3,137.90	393.46	315,838.58	1,770,710.82	39.365032	-80.199584	3,094.47	0.00	0.00	0.00
10,300.00	89.00	160.95	7,458.92	-3,232.41	426.08	315,744.06	1,770,743.45	39.364774	-80.199466	3,194.45	0.00	0.00	0.00
10,400.00	89.00	160.95	7,460.66	-3,326.92	458.71	315,649.55	1,770,776.08	39.364515	-80.199348	3,294.44	0.00	0.00	0.00
10,500.00	89.00	160.95	7,462.41	-3,421.43	491.34	315,555.04	1,770,808.71	39.364256	-80.199230	3,394.42	0.00	0.00	0.00
10,600.00	89.00	160.95	7,464.15	-3,515.94	523.97	315,460.53	1,770,841.33	39.363997	-80.199112	3,494.41	0.00	0.00	0.00
10,700.00	89.00	160.95	7,465.90	-3,610.45	556.59	315,366.02	1,770,873.96	39.363738	-80.198994	3,594.39	0.00	0.00	0.00
10,800.00	89.00	160.95	7,467.64	-3,704.97	589.22	315,271.51	1,770,906.59	39.363480	-80.198876	3,694.38	0.00	0.00	0.00
10,900.00	89.00	160.95	7,469.39	-3,799.48	621.85	315,177.00	1,770,939.22	39.363221	-80.198758	3,794.36	0.00	0.00	0.00
11,000.00	89.00	160.95	7,471.13	-3,893.99	654.48	315,082.48	1,770,971.84	39.362962	-80.198640	3,894.35	0.00	0.00	0.00
11,100.00	89.00	160.95	7,472.88	-3,988.50	687.11	314,987.97	1,771,004.47	39.362703	-80.198522	3,994.33	0.00	0.00	0.00
11,200.00	89.00	160.95	7,474.63	-4,083.01	719.73	314,893.46	1,771,037.10	39.362445	-80.198404	4,094.32	0.00	0.00	0.00
11,300.00	89.00	160.95	7,476.37	-4,177.52	752.36	314,798.95	1,771,069.73	39.362186	-80.198286	4,194.30	0.00	0.00	0.00
11,400.00	89.00	160.95	7,478.12	-4,272.03	784.99	314,704.44	1,771,102.36	39.361927	-80.198168	4,294.29	0.00	0.00	0.00
11,500.00	89.00	160.95	7,479.86	-4,366.55	817.62	314,609.93	1,771,134.98	39.361668	-80.198050	4,394.27	0.00	0.00	0.00
11,600.00	89.00	160.95	7,481.61	-4,461.06	850.24	314,515.42	1,771,167.61	39.361409	-80.197932	4,494.26	0.00	0.00	0.00
11,700.00	89.00	160.95	7,483.35	-4,555.57	882.87	314,420.91	1,771,200.24	39.361151	-80.197814	4,594.24	0.00	0.00	0.00
11,800.00	89.00	160.95	7,485.10	-4,650.08	915.50	314,326.39	1,771,232.87	39.360892	-80.197696	4,694.23	0.00	0.00	0.00
11,900.00	89.00	160.95	7,486.84	-4,744.59	948.13	314,231.88	1,771,265.49	39.360633	-80.197578	4,794.21	0.00	0.00	0.00
12,000.00	89.00	160.95	7,488.59	-4,839.10	980.75	314,137.37	1,771,298.12	39.360374	-80.197460	4,894.20	0.00	0.00	0.00
12,100.00	89.00	160.95	7,490.33	-4,933.61	1,013.38	314,042.86	1,771,330.75	39.360116	-80.197342	4,994.18	0.00	0.00	0.00
12,200.00	89.00	160.95	7,492.08	-5,028.12	1,046.01	313,948.35	1,771,363.38	39.359857	-80.197224	5,094.17	0.00	0.00	0.00

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Planned Survey Report

WV Department of
Environmental Protection



Company:	Diversified Production, LLC	Local Co-ordinate Reference:	Well Abbey 2MH
Project:	Harrison County, WV (NAD83 - GRID)	TVD Reference:	WELL @ 1024.00usft (28' RKB)
Site:	Abbey Pad	MD Reference:	WELL @ 1024.00usft (28' RKB)
Well:	Abbey 2MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #4	Database:	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Map Coordinates Northing (usft)	Easting (usft)	Geo Coordinates Latitude (°)	Longituge (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,300.00	89.00	160.95	7,493.82	-5,122.64	1,078.64	313,853.84	1,771,396.00	39.359598	-80.197106	5,194.15	0.00	0.00	0.00
12,400.00	89.00	160.95	7,495.57	-5,217.15	1,111.26	313,759.33	1,771,428.63	39.359339	-80.196988	5,294.13	0.00	0.00	0.00
12,500.00	89.00	160.95	7,497.31	-5,311.66	1,143.89	313,664.81	1,771,461.26	39.359080	-80.196870	5,394.12	0.00	0.00	0.00
12,600.00	89.00	160.95	7,499.06	-5,406.17	1,176.52	313,570.30	1,771,493.89	39.358822	-80.196752	5,494.10	0.00	0.00	0.00
12,700.00	89.00	160.95	7,500.80	-5,500.68	1,209.15	313,475.79	1,771,526.51	39.358563	-80.196634	5,594.09	0.00	0.00	0.00
12,800.00	89.00	160.95	7,502.55	-5,595.19	1,241.77	313,381.28	1,771,559.14	39.358304	-80.196516	5,694.07	0.00	0.00	0.00
12,900.00	89.00	160.95	7,504.29	-5,689.70	1,274.40	313,286.77	1,771,591.77	39.358045	-80.196398	5,794.06	0.00	0.00	0.00
13,000.00	89.00	160.95	7,506.04	-5,784.22	1,307.03	313,192.26	1,771,624.40	39.357787	-80.196280	5,894.04	0.00	0.00	0.00
13,100.00	89.00	160.95	7,507.79	-5,878.73	1,339.66	313,097.75	1,771,657.02	39.357528	-80.196162	5,994.03	0.00	0.00	0.00
13,200.00	89.00	160.95	7,509.53	-5,973.24	1,372.29	313,003.24	1,771,689.65	39.357269	-80.196044	6,094.01	0.00	0.00	0.00
13,300.00	89.00	160.95	7,511.28	-6,067.75	1,404.91	312,908.72	1,771,722.28	39.357010	-80.195927	6,194.00	0.00	0.00	0.00
13,400.00	89.00	160.95	7,513.02	-6,162.26	1,437.54	312,814.21	1,771,754.91	39.356751	-80.195809	6,293.98	0.00	0.00	0.00
13,500.00	89.00	160.95	7,514.77	-6,256.77	1,470.17	312,719.70	1,771,787.53	39.356493	-80.195691	6,393.97	0.00	0.00	0.00
13,600.00	89.00	160.95	7,516.51	-6,351.28	1,502.80	312,625.19	1,771,820.16	39.356234	-80.195573	6,493.95	0.00	0.00	0.00
13,700.00	89.00	160.95	7,518.26	-6,445.80	1,535.42	312,530.68	1,771,852.79	39.355975	-80.195455	6,593.94	0.00	0.00	0.00
13,800.00	89.00	160.95	7,520.00	-6,540.31	1,568.05	312,436.17	1,771,885.42	39.355716	-80.195337	6,693.92	0.00	0.00	0.00
13,900.00	89.00	160.95	7,521.75	-6,634.82	1,600.68	312,341.66	1,771,918.05	39.355458	-80.195219	6,793.91	0.00	0.00	0.00
14,000.00	89.00	160.95	7,523.49	-6,729.33	1,633.31	312,247.14	1,771,950.67	39.355199	-80.195101	6,893.89	0.00	0.00	0.00
14,100.00	89.00	160.95	7,525.24	-6,823.84	1,665.93	312,152.63	1,771,983.30	39.354940	-80.194983	6,993.88	0.00	0.00	0.00
14,200.00	89.00	160.95	7,526.98	-6,918.35	1,698.56	312,058.12	1,772,015.93	39.354681	-80.194865	7,093.86	0.00	0.00	0.00
14,300.00	89.00	160.95	7,528.73	-7,012.86	1,731.19	311,963.61	1,772,048.56	39.354422	-80.194747	7,193.85	0.00	0.00	0.00
14,400.00	89.00	160.95	7,530.47	-7,107.37	1,763.82	311,869.10	1,772,081.18	39.354164	-80.194629	7,293.83	0.00	0.00	0.00
14,500.00	89.00	160.95	7,532.22	-7,201.89	1,796.44	311,774.59	1,772,113.81	39.353905	-80.194511	7,393.82	0.00	0.00	0.00
14,600.00	89.00	160.95	7,533.96	-7,296.40	1,829.07	311,680.08	1,772,146.44	39.353646	-80.194393	7,493.80	0.00	0.00	0.00
14,700.00	89.00	160.95	7,535.71	-7,390.91	1,861.70	311,585.57	1,772,179.07	39.353387	-80.194275	7,593.78	0.00	0.00	0.00
14,800.00	89.00	160.95	7,537.45	-7,485.42	1,894.33	311,491.05	1,772,211.69	39.353128	-80.194157	7,693.77	0.00	0.00	0.00
14,900.00	89.00	160.95	7,539.20	-7,579.93	1,926.95	311,396.54	1,772,244.32	39.352870	-80.194039	7,793.75	0.00	0.00	0.00
15,000.00	89.00	160.95	7,540.95	-7,674.44	1,959.58	311,302.03	1,772,276.95	39.352611	-80.193921	7,893.74	0.00	0.00	0.00
15,100.00	89.00	160.95	7,542.69	-7,768.95	1,992.21	311,207.52	1,772,309.58	39.352352	-80.193803	7,993.72	0.00	0.00	0.00
15,200.00	89.00	160.95	7,544.44	-7,863.47	2,024.84	311,113.01	1,772,342.20	39.352093	-80.193685	8,093.71	0.00	0.00	0.00
15,300.00	89.00	160.95	7,546.18	-7,957.98	2,057.46	311,018.50	1,772,374.83	39.351835	-80.193567	8,193.69	0.00	0.00	0.00
15,400.00	89.00	160.95	7,547.93	-8,052.49	2,090.09	310,923.99	1,772,407.46	39.351576	-80.193449	8,293.68	0.00	0.00	0.00
15,500.00	89.00	160.95	7,549.67	-8,147.00	2,122.72	310,829.47	1,772,440.09	39.351317	-80.193331	8,393.66	0.00	0.00	0.00
15,600.00	89.00	160.95	7,551.42	-8,241.51	2,155.35	310,734.96	1,772,472.71	39.351058	-80.193213	8,493.65	0.00	0.00	0.00
15,700.00	89.00	160.95	7,553.16	-8,336.02	2,187.98	310,640.45	1,772,505.34	39.350799	-80.193095	8,593.63	0.00	0.00	0.00
15,800.00	89.00	160.95	7,554.91	-8,430.53	2,220.60	310,545.94	1,772,537.97	39.350541	-80.192977	8,693.62	0.00	0.00	0.00
15,900.00	89.00	160.95	7,556.65	-8,525.04	2,253.23	310,451.43	1,772,570.60	39.350282	-80.192859	8,793.60	0.00	0.00	0.00
16,000.00	89.00	160.95	7,558.40	-8,619.56	2,285.86	310,356.92	1,772,603.23	39.350023	-80.192741	8,893.59	0.00	0.00	0.00

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Planned Survey Report

WV Department of
Environmental Protection



Company:	Diversified Production, LLC	Local Co-ordinate Reference:	Well Abbey 2MH
Project:	Harrison County, WV (NAD83 - GRID)	TVD Reference:	WELL @ 1024.00usft (28' RKB)
Site:	Abbey Pad	MD Reference:	WELL @ 1024.00usft (28' RKB)
Well:	Abbey 2MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #4	Database:	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates (usft)		Map Coordinates (usft)		Geo Coordinates (°)		Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
				+N/-S	+E/-W	Northing	Easting	Latitude	Longitude				
16,100.00	89.00	160.95	7,560.14	-8,714.07	2,318.49	310,262.41	1,772,635.85	39.349764	-80.192624	8,993.57	0.00	0.00	0.00
16,200.00	89.00	160.95	7,561.89	-8,808.58	2,351.11	310,167.89	1,772,668.48	39.349505	-80.192506	9,093.56	0.00	0.00	0.00
16,300.00	89.00	160.95	7,563.63	-8,903.09	2,383.74	310,073.38	1,772,701.11	39.349247	-80.192388	9,193.54	0.00	0.00	0.00
16,400.00	89.00	160.95	7,565.38	-8,997.60	2,416.37	309,978.87	1,772,733.74	39.348988	-80.192270	9,293.53	0.00	0.00	0.00
16,500.00	89.00	160.95	7,567.12	-9,092.11	2,449.00	309,884.36	1,772,766.36	39.348729	-80.192152	9,393.51	0.00	0.00	0.00
16,600.00	89.00	160.95	7,568.87	-9,186.62	2,481.62	309,789.85	1,772,798.99	39.348470	-80.192034	9,493.50	0.00	0.00	0.00
16,683.57	89.00	160.95	7,570.33	-9,265.61	2,508.89	309,710.87	1,772,826.26	39.348254	-80.191935	9,577.05	0.00	0.00	0.00
16,700.00	89.00	161.20	7,570.61	-9,281.15	2,514.22	309,695.33	1,772,831.58	39.348211	-80.191916	9,593.48	1.50	0.00	1.50
16,800.00	89.00	162.70	7,572.36	-9,376.21	2,545.20	309,600.26	1,772,862.56	39.347951	-80.191804	9,693.45	1.50	0.00	1.50
16,900.00	89.00	164.20	7,574.11	-9,472.05	2,573.67	309,504.42	1,772,891.04	39.347689	-80.191701	9,793.33	1.50	0.00	1.50
17,000.00	89.00	165.70	7,575.86	-9,568.60	2,599.63	309,407.87	1,772,917.00	39.347424	-80.191606	9,893.07	1.50	0.00	1.50
17,100.00	89.00	167.20	7,577.62	-9,665.80	2,623.06	309,310.67	1,772,940.42	39.347158	-80.191521	9,992.59	1.50	0.00	1.50
17,200.00	89.00	168.70	7,579.37	-9,763.58	2,643.93	309,212.89	1,772,961.29	39.346890	-80.191444	10,091.83	1.50	0.00	1.50
17,300.00	89.00	170.20	7,581.12	-9,861.87	2,662.23	309,114.60	1,772,979.60	39.346620	-80.191377	10,190.71	1.50	0.00	1.50
17,386.52	89.00	171.50	7,582.63	-9,947.28	2,675.98	309,029.19	1,772,993.35	39.346386	-80.191326	10,275.93	1.50	0.00	1.50
17,400.00	89.00	171.50	7,582.87	-9,960.61	2,677.98	309,015.87	1,772,995.34	39.346350	-80.191318	10,289.18	0.00	0.00	0.00
17,500.00	89.00	171.50	7,584.61	-10,059.49	2,692.75	308,916.98	1,773,010.12	39.346078	-80.191263	10,387.47	0.00	0.00	0.00
17,586.52	89.00	171.50	7,586.12	-10,145.05	2,705.54	308,831.42	1,773,022.91	39.345844	-80.191216	10,472.52	0.00	0.00	0.00
17,600.00	89.00	171.30	7,586.36	-10,158.38	2,707.56	308,818.10	1,773,024.92	39.345807	-80.191208	10,485.77	1.50	0.00	-1.50
17,700.00	89.00	169.79	7,588.10	-10,257.00	2,723.98	308,719.47	1,773,041.35	39.345537	-80.191148	10,584.36	1.50	0.00	-1.50
17,800.00	89.00	168.29	7,589.85	-10,355.16	2,742.98	308,621.31	1,773,060.35	39.345268	-80.191078	10,683.34	1.50	0.00	-1.50
17,900.00	89.00	166.79	7,591.61	-10,452.79	2,764.56	308,523.69	1,773,081.93	39.345000	-80.190999	10,782.66	1.50	0.00	-1.50
18,000.00	89.00	165.28	7,593.36	-10,549.81	2,788.68	308,426.66	1,773,106.05	39.344734	-80.190911	10,882.25	1.50	0.00	-1.50
18,100.00	89.00	163.78	7,595.11	-10,646.17	2,815.35	308,330.30	1,773,132.72	39.344470	-80.190814	10,982.04	1.50	0.00	-1.50
18,200.00	89.00	162.28	7,596.86	-10,741.80	2,844.53	308,234.67	1,773,161.90	39.344208	-80.190708	11,081.95	1.50	0.00	-1.50
18,300.00	89.00	160.77	7,598.61	-10,836.63	2,876.21	308,139.84	1,773,193.58	39.343949	-80.190594	11,181.93	1.50	0.00	-1.50
18,400.00	89.00	159.27	7,600.35	-10,930.60	2,910.37	308,045.88	1,773,227.74	39.343691	-80.190470	11,281.90	1.50	0.00	-1.50
18,500.00	89.01	157.77	7,602.09	-11,023.64	2,946.98	307,952.84	1,773,264.35	39.343437	-80.190338	11,381.79	1.50	0.00	-1.50
18,600.00	89.01	156.26	7,603.82	-11,115.68	2,986.02	307,860.79	1,773,303.39	39.343185	-80.190198	11,481.54	1.50	0.00	-1.50
18,700.00	89.02	154.76	7,605.54	-11,206.67	3,027.46	307,769.80	1,773,344.83	39.342936	-80.190049	11,581.07	1.50	0.00	-1.50
18,800.00	89.02	153.26	7,607.25	-11,296.54	3,071.28	307,679.93	1,773,388.64	39.342690	-80.189891	11,680.32	1.50	0.01	-1.50
18,900.00	89.03	151.76	7,608.95	-11,385.23	3,117.43	307,591.24	1,773,434.80	39.342448	-80.189726	11,779.22	1.50	0.01	-1.50
19,000.00	89.03	150.25	7,610.65	-11,472.68	3,165.90	307,503.79	1,773,483.27	39.342208	-80.189552	11,877.70	1.50	0.01	-1.50
19,082.35	89.04	149.01	7,612.03	-11,543.72	3,207.52	307,432.75	1,773,524.89	39.342014	-80.189403	11,958.43	1.50	0.01	-1.50
19,100.00	89.04	149.28	7,612.32	-11,558.87	3,216.58	307,417.60	1,773,533.94	39.341973	-80.189371	11,975.71	1.50	-0.01	1.50
19,200.00	89.03	150.78	7,614.01	-11,645.49	3,266.52	307,330.99	1,773,583.89	39.341736	-80.189192	12,073.88	1.50	-0.01	1.50
19,300.00	89.03	152.29	7,615.70	-11,733.38	3,314.18	307,243.09	1,773,631.54	39.341496	-80.189021	12,172.52	1.50	-0.01	1.50

OCT 4 2024



DIVERSIFIED
energy

Planned Survey Report

WV Department of
Environmental Protection



Company:	Diversified Production, LLC	Local Co-ordinate Reference:	Well Abbey 2MH
Project:	Harrison County, WV (NAD83 - GRID)	TVD Reference:	WELL @ 1024.00usft (28' RKB)
Site:	Abbey Pad	MD Reference:	WELL @ 1024.00usft (28' RKB)
Well:	Abbey 2MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #4	Database:	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates (usft)		Map Coordinates (usft)		Geo Coordinates (°)		Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
				+N/-S	+E/-W	Northing	Easting	Latitude	Longitude				
19,400.00	89.02	153.79	7,617.41	-11,822.50	3,359.51	307,153.98	1,773,676.88	39.341252	-80.188858	12,271.55	1.50	-0.01	1.50
19,500.00	89.01	155.29	7,619.13	-11,912.77	3,402.49	307,063.70	1,773,719.86	39.341005	-80.188704	12,370.91	1.50	-0.01	1.50
19,600.00	89.01	156.80	7,620.85	-12,004.14	3,443.08	306,972.33	1,773,760.45	39.340755	-80.188558	12,470.52	1.50	0.00	1.50
19,700.00	89.01	158.30	7,622.58	-12,096.54	3,481.27	306,879.93	1,773,798.64	39.340502	-80.188420	12,570.33	1.50	0.00	1.50
19,800.00	89.00	159.80	7,624.32	-12,189.92	3,517.02	306,786.56	1,773,834.39	39.340247	-80.188291	12,670.25	1.50	0.00	1.50
19,876.36	89.00	160.95	7,625.65	-12,261.83	3,542.66	306,714.64	1,773,860.03	39.340050	-80.188199	12,746.60	1.50	0.00	1.50
19,900.00	89.00	160.95	7,626.07	-12,284.17	3,550.37	306,692.30	1,773,867.74	39.339989	-80.188171	12,770.23	0.00	0.00	0.00
20,000.00	89.00	160.95	7,627.81	-12,378.68	3,583.01	306,597.79	1,773,900.38	39.339730	-80.188053	12,870.22	0.00	0.00	0.00
20,100.00	89.00	160.95	7,629.56	-12,473.19	3,615.64	306,503.29	1,773,933.01	39.339471	-80.187935	12,970.20	0.00	0.00	0.00
20,200.00	89.00	160.95	7,631.30	-12,567.70	3,648.28	306,408.78	1,773,965.64	39.339212	-80.187817	13,070.19	0.00	0.00	0.00
20,300.00	89.00	160.95	7,633.05	-12,662.21	3,680.91	306,314.27	1,773,998.28	39.338954	-80.187699	13,170.17	0.00	0.00	0.00
20,400.00	89.00	160.95	7,634.79	-12,756.72	3,713.55	306,219.76	1,774,030.91	39.338695	-80.187581	13,270.16	0.00	0.00	0.00
20,500.00	89.00	160.95	7,636.54	-12,851.22	3,746.18	306,125.25	1,774,063.55	39.338436	-80.187463	13,370.14	0.00	0.00	0.00
20,600.00	89.00	160.95	7,638.28	-12,945.73	3,778.81	306,030.74	1,774,096.18	39.338177	-80.187345	13,470.13	0.00	0.00	0.00
20,700.00	89.00	160.95	7,640.03	-13,040.24	3,811.45	305,936.23	1,774,128.82	39.337918	-80.187227	13,570.11	0.00	0.00	0.00
20,800.00	89.00	160.95	7,641.77	-13,134.75	3,844.08	305,841.72	1,774,161.45	39.337660	-80.187109	13,670.10	0.00	0.00	0.00
20,900.00	89.00	160.95	7,643.52	-13,229.26	3,876.72	305,747.21	1,774,194.08	39.337401	-80.186991	13,770.08	0.00	0.00	0.00
21,000.00	89.00	160.95	7,645.26	-13,323.77	3,909.35	305,652.70	1,774,226.72	39.337142	-80.186873	13,870.07	0.00	0.00	0.00
21,100.00	89.00	160.95	7,647.01	-13,418.28	3,941.99	305,558.20	1,774,259.35	39.336883	-80.186755	13,970.05	0.00	0.00	0.00
21,200.00	89.00	160.95	7,648.75	-13,512.79	3,974.62	305,463.69	1,774,291.99	39.336624	-80.186638	14,070.04	0.00	0.00	0.00
21,300.00	89.00	160.95	7,650.50	-13,607.30	4,007.25	305,369.18	1,774,324.62	39.336366	-80.186520	14,170.02	0.00	0.00	0.00
21,400.00	89.00	160.95	7,652.24	-13,701.81	4,039.89	305,274.67	1,774,357.26	39.336107	-80.186402	14,270.01	0.00	0.00	0.00
21,500.00	89.00	160.95	7,653.99	-13,796.31	4,072.52	305,180.16	1,774,389.89	39.335848	-80.186284	14,369.99	0.00	0.00	0.00
21,600.00	89.00	160.95	7,655.74	-13,890.82	4,105.16	305,085.65	1,774,422.53	39.335589	-80.186166	14,469.98	0.00	0.00	0.00
21,700.00	89.00	160.95	7,657.48	-13,985.33	4,137.79	304,991.14	1,774,455.16	39.335331	-80.186048	14,569.96	0.00	0.00	0.00
21,800.00	89.00	160.95	7,659.23	-14,079.84	4,170.43	304,896.63	1,774,487.79	39.335072	-80.185930	14,669.95	0.00	0.00	0.00
21,900.00	89.00	160.95	7,660.97	-14,174.35	4,203.06	304,802.12	1,774,520.43	39.334813	-80.185812	14,769.93	0.00	0.00	0.00
22,000.00	89.00	160.95	7,662.72	-14,268.86	4,235.70	304,707.61	1,774,553.06	39.334554	-80.185694	14,869.91	0.00	0.00	0.00
22,100.00	89.00	160.95	7,664.46	-14,363.37	4,268.33	304,613.11	1,774,585.70	39.334295	-80.185576	14,969.90	0.00	0.00	0.00
22,200.00	89.00	160.95	7,666.21	-14,457.88	4,300.96	304,518.60	1,774,618.33	39.334037	-80.185458	15,069.88	0.00	0.00	0.00
22,300.00	89.00	160.95	7,667.95	-14,552.39	4,333.60	304,424.09	1,774,650.97	39.333778	-80.185340	15,169.87	0.00	0.00	0.00
22,400.00	89.00	160.95	7,669.70	-14,646.90	4,366.23	304,329.58	1,774,683.60	39.333519	-80.185222	15,269.85	0.00	0.00	0.00
22,500.00	89.00	160.95	7,671.44	-14,741.40	4,398.87	304,235.07	1,774,716.23	39.333260	-80.185105	15,369.84	0.00	0.00	0.00
22,600.00	89.00	160.95	7,673.19	-14,835.91	4,431.50	304,140.56	1,774,748.87	39.333001	-80.184987	15,469.82	0.00	0.00	0.00
22,700.00	89.00	160.95	7,674.93	-14,930.42	4,464.14	304,046.05	1,774,781.50	39.332743	-80.184869	15,569.81	0.00	0.00	0.00
22,800.00	89.00	160.95	7,676.68	-15,024.93	4,496.77	303,951.54	1,774,814.14	39.332484	-80.184751	15,669.79	0.00	0.00	0.00
22,900.00	89.00	160.95	7,678.42	-15,119.44	4,529.40	303,857.03	1,774,846.77	39.332225	-80.184633	15,769.78	0.00	0.00	0.00
23,000.00	89.00	160.95	7,680.17	-15,213.95	4,562.04	303,762.52	1,774,879.41	39.331966	-80.184515	15,869.76	0.00	0.00	0.00



Company:	Diversified Production, LLC	Local Co-ordinate Reference:	WV Department of Well Abbey 2MH Environmental Protection
Project:	Harrison County, WV (NAD83 - GRID)	TVD Reference:	WELL @ 1024.00usft (28' RKB)
Site:	Abbey Pad	MD Reference:	WELL @ 1024.00usft (28' RKB)
Well:	Abbey 2MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #4	Database:	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates (usft)		Map Coordinates (usft)		Geo Coordinates (°)		Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
				+N/-S	+E/-W	Northing	Easting	Latitude	Longitude				
23,100.00	89.00	160.95	7,681.91	-15,308.46	4,594.67	303,668.02	1,774,912.04	39.331708	-80.184397	15,969.75	0.00	0.00	0.00
23,200.00	89.00	160.95	7,683.66	-15,402.97	4,627.31	303,573.51	1,774,944.67	39.331449	-80.184279	16,069.73	0.00	0.00	0.00
23,300.00	89.00	160.95	7,685.40	-15,497.48	4,659.94	303,479.00	1,774,977.31	39.331190	-80.184161	16,169.72	0.00	0.00	0.00
23,400.00	89.00	160.95	7,687.15	-15,591.99	4,692.58	303,384.49	1,775,009.94	39.330931	-80.184043	16,269.70	0.00	0.00	0.00
23,500.00	89.00	160.95	7,688.89	-15,686.49	4,725.21	303,289.98	1,775,042.58	39.330672	-80.183925	16,369.69	0.00	0.00	0.00
23,600.00	89.00	160.95	7,690.64	-15,781.00	4,757.84	303,195.47	1,775,075.21	39.330414	-80.183807	16,469.67	0.00	0.00	0.00
23,700.00	89.00	160.95	7,692.39	-15,875.51	4,790.48	303,100.96	1,775,107.85	39.330155	-80.183690	16,569.66	0.00	0.00	0.00
23,800.00	89.00	160.95	7,694.13	-15,970.02	4,823.11	303,006.45	1,775,140.48	39.329896	-80.183572	16,669.64	0.00	0.00	0.00
23,900.00	89.00	160.95	7,695.88	-16,064.53	4,855.75	302,911.94	1,775,173.11	39.329637	-80.183454	16,769.63	0.00	0.00	0.00
24,000.00	89.00	160.95	7,697.62	-16,159.04	4,888.38	302,817.43	1,775,205.75	39.329378	-80.183336	16,869.61	0.00	0.00	0.00
24,100.00	89.00	160.95	7,699.37	-16,253.55	4,921.02	302,722.92	1,775,238.38	39.329120	-80.183218	16,969.59	0.00	0.00	0.00
24,200.00	89.00	160.95	7,701.11	-16,348.06	4,953.65	302,628.42	1,775,271.02	39.328861	-80.183100	17,069.58	0.00	0.00	0.00
24,300.00	89.00	160.95	7,702.86	-16,442.57	4,986.29	302,533.91	1,775,303.65	39.328602	-80.182982	17,169.56	0.00	0.00	0.00
24,400.00	89.00	160.95	7,704.60	-16,537.08	5,018.92	302,439.40	1,775,336.29	39.328343	-80.182864	17,269.55	0.00	0.00	0.00
24,500.00	89.00	160.95	7,706.35	-16,631.58	5,051.55	302,344.89	1,775,368.92	39.328084	-80.182746	17,369.53	0.00	0.00	0.00
24,600.00	89.00	160.95	7,708.09	-16,726.09	5,084.19	302,250.38	1,775,401.56	39.327826	-80.182628	17,469.52	0.00	0.00	0.00
24,700.00	89.00	160.95	7,709.84	-16,820.60	5,116.82	302,155.87	1,775,434.19	39.327567	-80.182511	17,569.50	0.00	0.00	0.00
24,800.00	89.00	160.95	7,711.58	-16,915.11	5,149.46	302,061.36	1,775,466.82	39.327308	-80.182393	17,669.49	0.00	0.00	0.00
24,900.00	89.00	160.95	7,713.33	-17,009.62	5,182.09	301,966.85	1,775,499.46	39.327049	-80.182275	17,769.47	0.00	0.00	0.00
25,000.00	89.00	160.95	7,715.07	-17,104.13	5,214.73	301,872.34	1,775,532.09	39.326791	-80.182157	17,869.46	0.00	0.00	0.00
25,100.00	89.00	160.95	7,716.82	-17,198.64	5,247.36	301,777.83	1,775,564.73	39.326532	-80.182039	17,969.44	0.00	0.00	0.00
25,200.00	89.00	160.95	7,718.56	-17,293.15	5,279.99	301,683.33	1,775,597.36	39.326273	-80.181921	18,069.43	0.00	0.00	0.00
25,300.00	89.00	160.95	7,720.31	-17,387.66	5,312.63	301,588.82	1,775,630.00	39.326014	-80.181803	18,169.41	0.00	0.00	0.00
25,400.00	89.00	160.95	7,722.05	-17,482.17	5,345.26	301,494.31	1,775,662.63	39.325755	-80.181685	18,269.40	0.00	0.00	0.00
25,500.00	89.00	160.95	7,723.80	-17,576.68	5,377.90	301,399.80	1,775,695.26	39.325497	-80.181567	18,369.38	0.00	0.00	0.00
25,600.00	89.00	160.95	7,725.54	-17,671.18	5,410.53	301,305.29	1,775,727.90	39.325238	-80.181449	18,469.37	0.00	0.00	0.00
25,700.00	89.00	160.95	7,727.29	-17,765.69	5,443.17	301,210.78	1,775,760.53	39.324979	-80.181332	18,569.35	0.00	0.00	0.00
25,800.00	89.00	160.95	7,729.04	-17,860.20	5,475.80	301,116.27	1,775,793.17	39.324720	-80.181214	18,669.34	0.00	0.00	0.00
25,900.00	89.00	160.95	7,730.78	-17,954.71	5,508.43	301,021.76	1,775,825.80	39.324461	-80.181096	18,769.32	0.00	0.00	0.00
26,000.00	89.00	160.95	7,732.53	-18,049.22	5,541.07	300,927.25	1,775,858.44	39.324203	-80.180978	18,869.31	0.00	0.00	0.00
26,100.00	89.00	160.95	7,734.27	-18,143.73	5,573.70	300,832.74	1,775,891.07	39.323944	-80.180860	18,969.29	0.00	0.00	0.00
26,200.00	89.00	160.95	7,736.02	-18,238.24	5,606.34	300,738.24	1,775,923.70	39.323685	-80.180742	19,069.28	0.00	0.00	0.00
26,300.00	89.00	160.95	7,737.76	-18,332.75	5,638.97	300,643.73	1,775,956.34	39.323426	-80.180624	19,169.26	0.00	0.00	0.00
26,400.00	89.00	160.95	7,739.51	-18,427.26	5,671.61	300,549.22	1,775,988.97	39.323167	-80.180506	19,269.24	0.00	0.00	0.00
26,500.00	89.00	160.95	7,741.25	-18,521.77	5,704.24	300,454.71	1,776,021.61	39.322909	-80.180388	19,369.23	0.00	0.00	0.00
26,600.00	89.00	160.95	7,743.00	-18,616.27	5,736.88	300,360.20	1,776,054.24	39.322650	-80.180271	19,469.21	0.00	0.00	0.00
26,700.00	89.00	160.95	7,744.74	-18,710.78	5,769.51	300,265.69	1,776,086.88	39.322391	-80.180153	19,569.20	0.00	0.00	0.00

Company:	Diversified Production, LLC	Local Co-ordinate Reference:	Well Abbey 2MH
Project:	Harrison County, WV (NAD83 - GRID)	TVD Reference:	WELL @ 1024.00usft (28' RKB)
Site:	Abbey Pad	MD Reference:	WELL @ 1024.00usft (28' RKB)
Well:	Abbey 2MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #4	Database:	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates (usft)		Map Coordinates (usft)		Geo Coordinates (°)		Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
				+N/-S	+E/-W	Northing	Easting	Latitude	Longitude				
26,800.00	89.00	160.95	7,746.49	-18,805.29	5,802.14	300,171.18	1,776,119.51	39.322132	-80.180035	19,669.18	0.00	0.00	0.00
26,900.00	89.00	160.95	7,748.23	-18,899.80	5,834.78	300,076.67	1,776,152.15	39.321873	-80.179917	19,769.17	0.00	0.00	0.00
27,000.00	89.00	160.95	7,749.98	-18,994.31	5,867.41	299,982.16	1,776,184.78	39.321615	-80.179799	19,869.15	0.00	0.00	0.00
27,100.00	89.00	160.95	7,751.72	-19,088.82	5,900.05	299,887.65	1,776,217.41	39.321356	-80.179681	19,969.14	0.00	0.00	0.00
27,200.00	89.00	160.95	7,753.47	-19,183.33	5,932.68	299,793.15	1,776,250.05	39.321097	-80.179563	20,069.12	0.00	0.00	0.00
27,300.00	89.00	160.95	7,755.21	-19,277.84	5,965.32	299,698.64	1,776,282.68	39.320838	-80.179445	20,169.11	0.00	0.00	0.00
27,400.00	89.00	160.95	7,756.96	-19,372.35	5,997.95	299,604.13	1,776,315.32	39.320580	-80.179328	20,269.09	0.00	0.00	0.00
27,500.00	89.00	160.95	7,758.70	-19,466.86	6,030.58	299,509.62	1,776,347.95	39.320321	-80.179210	20,369.08	0.00	0.00	0.00
27,600.00	89.00	160.95	7,760.45	-19,561.36	6,063.22	299,415.11	1,776,380.59	39.320062	-80.179092	20,469.06	0.00	0.00	0.00
27,700.00	89.00	160.95	7,762.19	-19,655.87	6,095.85	299,320.60	1,776,413.22	39.319803	-80.178974	20,569.05	0.00	0.00	0.00
27,727.55	89.00	160.95	7,762.68	-19,681.94	6,104.77	299,294.53	1,776,422.14	39.319732	-80.178942	20,596.60	0.00	0.00	0.00

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LP v3 - Abbey 2MH - hit/miss target - Shape - plan hits target center - Point	0.00	0.00	7,415.00	-854.10	-394.97	318,122.37	1,769,922.40	39.371286	-80.202436
PBHL v4 - Abbey 2MH - plan hits target center - Point	0.00	360.00	7,762.68	-19,681.94	6,104.77	299,294.53	1,776,422.14	39.319732	-80.178942

Plan Annotations




Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates (usft)		Comment
		+N/-S	+E/-W	
3000	3000	0	0	KOP; Begin 2.00° Build
3452	3451	-18	-31	Hold 9.05° Tangent
6911	6867	-295	-499	Begin 10.00° Build/Turn
7784	7415	-854	-395	Hold 89.00° Lateral
16,684	7570	-9266	2509	Begin 1.50° Turn
17,387	7583	-9947	2676	Hold 171.50° Az
17,587	7586	-10,145	2706	Begin 1.50° Turn
19,082	7612	-11,544	3208	Continue 1.50° Turn
19,876	7626	-12,262	3543	Hold 160.95° Az
27,728	7763	-19,682	6105	PBHL - 27727.55' MD

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Checked By: _____ Approved By: _____ Date: _____

Well Name: Abbey South 2MH		  		Notes: - Formation depths are estimates - Casing Depths subject to change based on as-drilled geologic depths - Casing weights/grades subject to change, but only if a higher weight/grade is used - Cement additives may include Antifoam, LCM, accelerator, Retarder, Fluid Loss, Gas Migration, etc to meet needed properties. - Detailed program will be distributed before drilling the well		
Pad Name: Abbey						
Rig KB (ft): 28						
Target: Marcellus						
TVD	Geology	Wellhead	Hole Size & MW	Casing (Size Wt Grade Connection)	Cement	Centralizers & Wellbore Conditioning
128'	Conductor	Wellhead 13-5/8" 5k	26 "	20" 52.73# Grade A PE&B Conductor		No Centralizers Hole is auger drilled: No conditioning required.
Surface	160' 623' 583'	750' MD 750' TVD	17-1/2"	13 3/8 48# H40 BTC	Tail (50% OH excess) 15.6 ppg Class A Cement to surface	Every 3rd joint from shoe to surface
	750'		Casing Point TVD			Air/FW Mist Fluid Drill with FW if air pack unavailable
Intermediate	1,146' 1,207' 1,291' 1,666' 1,766' 2,055' 2,225' 2,295' 2,545'	2545' MD 2545' TVD	12-1/4"	9 5/8 36# J55 LTC	Lead (60% OH & Cased excess) 14.5 ppg class A Cement to surface Tail (0% excess) 15.6 ppg class A Top of Tail @ -1,579'	Every 3rd joint from shoe to surface
			Little Lime Big Lime Big Injun Sandstone Berea Sandstone Fifty Foot Sandstone Gordon Sandstone Fourth Sand Sandstone Fifth Sand Sandstone Casing Point TVD			Air/FW Mist Fluid Drill with FW if air pack unavailable
Production	2,975' 4,300'	KOP 6911' MD 6866' TVD	8-3/4" Above Curve Air/ Mist	5 1/2 20# HP P110 Semi- Premium	Tail (10% OH excess) 15.2 ppg Class A Top of Tail @ -5911'	Every other joint from shoe to Top of Cement
	6,866'		KOP (TVD)			8-1/2" Curve & Lateral 11.5 - 12.5 ppg MW
	7,040' 7,080'	Landing Point 7784' MD 7415' TVD Dip Angle =	19,944' Lateral			BHL 27728' MD 7763' TVD
	7,140' 7,295'		Hamilton Shale Marcellus Shale			
	7,415' 7,425'	Landing Point (TVD) Onondaga				

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WW-9
(4/16)

API Number 47 - 033

Operator's Well No. Abbey South 2MH

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Diversified Production, LLC OP Code 494524121

Watershed (HUC 10) West Fork Quadrangle Rosemont 7.5'

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 _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Will closed loop system be used? If so, describe: Closed loop consisting of multiple half-round tanks to accommodate all drill cuttings that will be solidified on site and transported via truck to a disposal site

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. *See attached

-If oil based, what type? Synthetic, petroleum, etc. *See attached

Additives to be used in drilling medium? *See attached

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? *See attached

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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 [Signature]

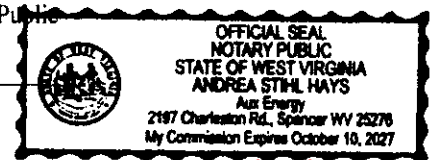
Company Official (Typed Name) Daniel Frick

Company Official Title Director - EHS Regulatory

Subscribed and sworn before me this 23rd day of September, 2024

Andrea S. Hays Notary Public

My commission expires 10/10/2027



11/29/2024

Diversified Production, LLC

Proposed Revegetation Treatment: Acres Disturbed 5.98 acres Prevegetation pH _____

Lime 2 Tons/acre or to correct to pH approx. 7

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Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch 100 bales Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type lbs/acre

Seed Type lbs/acre

30% Annual Ryegrass, 20% Pennate Orchard

30% Annual Ryegrass, 20% Pennate Orchard

10% Alsike Clover, 10% Trefoil Norcen Empire

10% Alsike Clover, 10% Trefoil Norcen Empire

15% Climax Timothy N.C., 15% Perennial Ryegrass

15% Climax Timothy N.C., 15% Perennial Ryegrass

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: *Ky Willett*

Comments: _____

Title: O&G Inspector Date: 9/24/24

Field Reviewed? () Yes () No

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Additional Information for WW-9

Drilling Medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.

Vertical Surface: Air/FW Mist

Vertical Intermediates: Air Brine Mist

Horizontal: Synthetic Oil Based Mud

Additives to be used in drilling medium?

Vertical Surface: FW shale stabilizers

Vertical Intermediates: Shale inhibitors, mist soap & gear oil; Water Based Mud w/NaCl2 & bentonite gel

Horizontal: Barite, bentonite gel, emulsifiers, wetting agents & lime

Landfill Info:

Landfill	Permit #	Address
Waste Management	SWF 1032	1488 Dawson Drive Bridgeport, WV 26330 304-343-6987
Wetzel County Landfill	SWF 1021	Rt. 1 Box 156A New Martinsville, WV 26035 304-455-3800
Apex Environmental	06-08438	11 County Road 78 Amstardam, OH 43903 740-543-4389
Chestnut Valley	100419	1184 McClellandtown Road McClellandtown, PA 15458 724-437-7336

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11/29/2024

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Diversified
Production LLC

WELL SITE SAFETY PLAN

Well Name: Abbey South 2MH

Pad Name: Abbey

911 Address:

**39 Cathrine Drive
Shinnston, WV 26431**

County: Harrison

District: Clay - Outside

UTM (meters), NAD83, Zone 17

Northing: 4,358,545.395

Easting: 568,816.540

September 2024

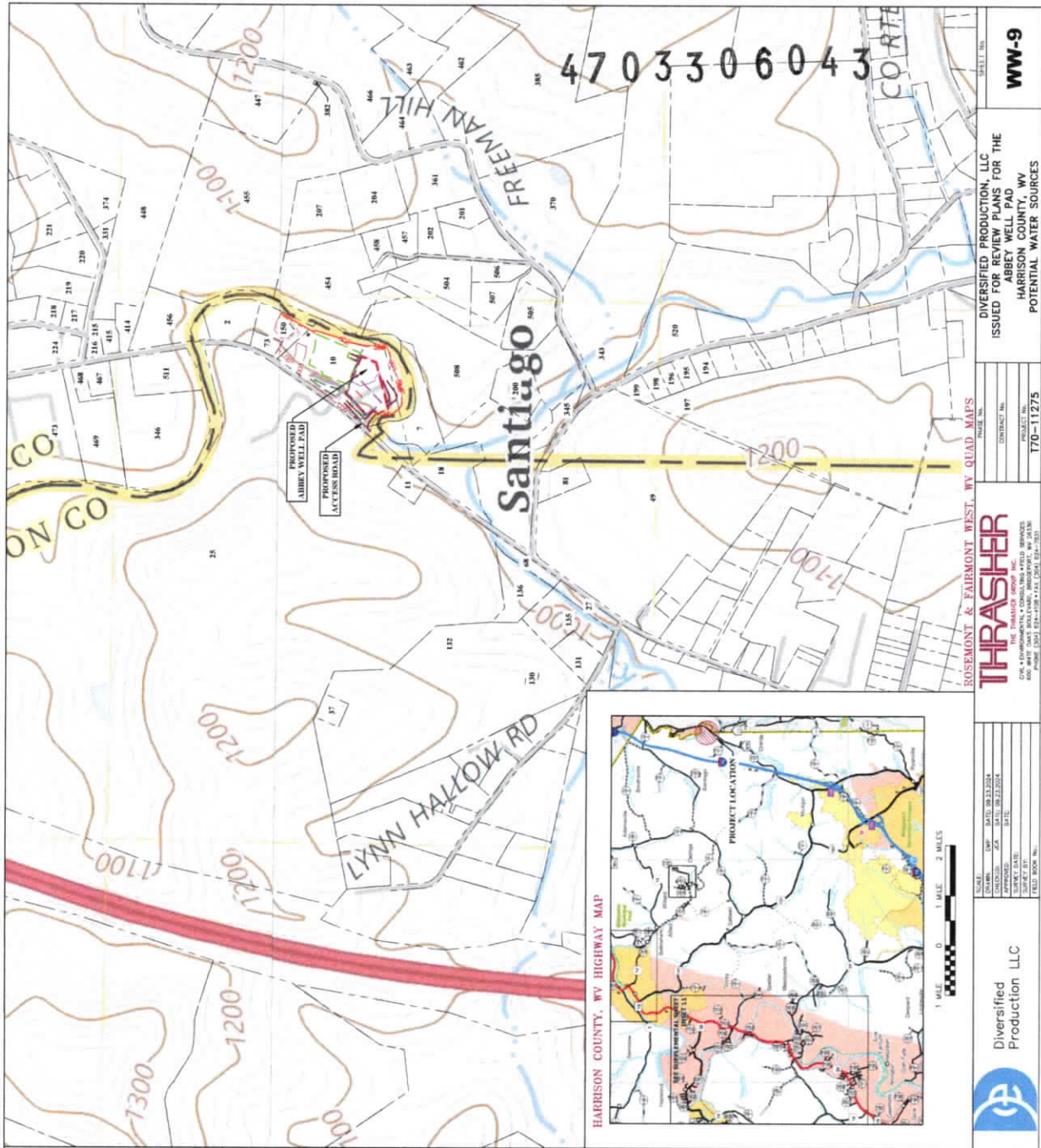
Ky Willett
9/24/24

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OCT 4 2024

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Environmental Protection

11/29/2024



NO.	DATE	DESCRIPTION	BY	CHKD.
1	11/29/2024	ISSUED FOR REVIEW	DR	DR
2	11/29/2024	REVISED	DR	DR
3	11/29/2024	REVISED	DR	DR
4	11/29/2024	REVISED	DR	DR
5	11/29/2024	REVISED	DR	DR
6	11/29/2024	REVISED	DR	DR
7	11/29/2024	REVISED	DR	DR
8	11/29/2024	REVISED	DR	DR
9	11/29/2024	REVISED	DR	DR
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98	11/29/2024	REVISED	DR	DR
99	11/29/2024	REVISED	DR	DR
100	11/29/2024	REVISED	DR	DR

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ROSEMONT & FAIRMONT WEST, WV QUAD MAPS

TRASHER ENGINEERING & CONSULTING, INC.

DIVERSIFIED PRODUCTION, LLC
ISSUED FOR REVIEW PLANS FOR THE
LIBBY WELL PAD
HARRISON COUNTY, WV
POTENTIAL WATER SOURCES

CONTRACT NO. 170-11275

SCALE: 1" = 200'

DATE: 11/29/2024

PROJECT: LIBBY WELL PAD

CLIENT: DIVERSIFIED PRODUCTION, LLC

PROJECT NO.: 170-11275

DATE: 11/29/2024

SCALE: 1" = 200'

DATE: 11/29/2024

PROJECT: LIBBY WELL PAD

CLIENT: DIVERSIFIED PRODUCTION, LLC

PROJECT NO.: 170-11275

Diversified Production LLC

NOT FOR CONSTRUCTION
2024-09-23

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TRASHER ENGINEERING & CONSULTING, INC.

ABBEY SOUTH WELL 2MH		
ID	SURFACE OWNER	DIST-TM-PAR
1	LONG RIDGE WEST VIRGINIA LLC	5-210-44.2
2	BARBARA A. BROWN	5-210-44.3
3	BARBARA A. BROWN	5-210-44.8
4	BRYAN BROWN	5-210-44A
5	BRYAN WAYNE BROWN & JENNIFER PINARD	5-210-44.1
6	ADAM LINDSAY ET AL	5-210-55
7	MARK CHRISTOPHER SCHUMACHER	3-6-45.5
8	MARK CHRISTOPHER SCHUMACHER	3-6-45.16
9	MARK CHRISTOPHER SCHUMACHER	3-6-45.17
10	CAROL D. MERRILL	3-6-45.7
11	MARK CHRISTOPHER SCHUMACHER	3-6-45.21
12	VICTOR W & PATTY CLINE	3-6-45.11
13	ANGELA ELLIOT	3-6-45.4
14	STANLEY H. & FRANCES L. VANCE	3-6-45.3
15	TIMOTHY F. HOGAN	3-6-45.2
16	RANDALL J. & AMY L. CHENEVERT	3-6-45.1
17	THE COUNTY COMMISSION OF TAYLOR COUNTY	3-6B-47.50
18	RONALD E & JENNIFER L. WRIGHT	3-6B-47.22
19	4-T ARENA INC.	3-6B-47.5
20	4-T ARENA INC.	3-13-2
21	4-T ARENA INC.	3-13-3
22	4-T ARENA INC.	3-13-4.3
23	4-T ARENA INC.	3-13-6
24	GARRETT M. MOATS & CAYLIN HULL	3-13-8
25	JOYCE A. NUZUM	3-13-8.1
26	EDWARD HELMICK	3-13-9.2
27	DONALD PAUL WILSON	3-13-9.1

ABBEY SOUTH WELL 2MH		
ID	SURFACE OWNER	DIST-TM-PAR
28	CYNTHIA KNOTTS	3-13-9.17
29	CYNTHIA L. KNOTTS	3-13-9.14
30	CARMEN R. ROMANO & MARY F. WILLIAMS-ROMANO	3-13-9.13
31	SEAN G. SISLER	3-13-21.6
32	JESSICA KERNS & CODY JUDY	3-13-21.11
33	MICHAEL & FRANCESCA MCCUTCHAN	3-13-21.34
34	DENISE R. & DENNIS E. BOWLES	3-13-21.36
35	SUSIE L. LEHMANN & FARRAH R. AUSTIN	P/O 3-13-21.37
36	COREY A. & STACIE L. HIMES	P/O 3-13-21.38
37	COREY A. & STACIE L. HIMES	P/O 3-13-21.38
38	THOMAS LAWSON & JESSIE LOU ELLIOTT	P/O 3-13-21.25
39	GARY W & MICHON M. MILES	P/O 3-13-21.24
40	TIMOTHY J. FEEMAN	P/O 3-13-21.27
41	PATRICIA M. ASHCRAFT	3-13-13.1
42	MARY SUSAN MASON	3-13-16.6
43	EVAN M. KLIETHERMES	3-13-16
44	EVAN M. KLIETHERMES	3-14-17
45	LINDA O. MORGAN	3-14-16
46	MICHAEL A. MESSINGER	P/O 3-14-15
47	MICHAEL A. MESSINGER	P/O 3-14-15
48	MARK W. & PAMELA CARDER	3-14-14
49	MARK W. & PAMELA CARDER	3-14-13
50	CHAD D. & JENNIFER L. GOFF	3-14-10.6
51	MICHAEL T. ALONSO	P/O 3-14-24.3
52	TODD ALONSO	3-14-25
53	ALEXANDRIA D. & SPENCER W. CAPLAN	3-14-25.2
54	JOEL B. SMITH & JOSHUA B. SYKES	3-14-27.5
55	DENNIS L. & JANET L. WITHERS	3-14-27.4

SEE PAGE 2 FOR LESSOR INFO
SEE PAGE 3 FOR PLAT DUE TO LENGTH OF LATERAL

THRASHER

THE THRASHER GROUP, INC.
600 WHITE OAKS BLVD.
BRIDGEPORT, WV 26330
PHONE 304-624-4108



Diversified
Production LLC

FILE #: T70-11275 ABBEY WELL PAD
DRAWING #: ABBEY SOUTH 2MH
SCALE: 1" = 2,000'
DATE: OCTOBER 7, 2024

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 THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

SIGNED: *James R. Howes*
R.P.E.: _____ L.L.S.: P.S. No. 2357



MINIMUM DEGREE OF ACCURACY: 1/2500
PROVEN SOURCE SURVEY GRADE GPS OF ELEVATION: (NAVD 88, US FT)



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP
OFFICE OF OIL & GAS 601
57TH STREET
CHARLESTON, WV 25304

OPERATOR'S WELL #: ABBEY SOUTH 2MH
API WELL #: 47 33 06043
STATE COUNTY PERMIT

WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW
WATERSHED: WEST FORK ELEVATION: 996.09'±
COUNTY/DISTRICT: HARRISON / CLAY-OUTSIDE QUADRANGLE: ROSEMONT, WV 7.5'
SURFACE OWNER: LONG RIDGE WEST VIRGINIA LLC ACREAGE: 6.77± **11/29/2024**
OIL & GAS ROYALTY OWNER: WILLOW CREEK MHV, LLC ACREAGE: 6.77±
DRILL DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
CONVERT PLUG & ABANDON CLEAN OUT & REPLUG PERFORATE NEW FORMATION
OTHER CHANGE (SPECIFY): _____
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: (LATERAL) TVD: 7,763'± TMD: 27,727'±

WELL OPERATOR: DIVERSIFIED PRODUCTION, LLC DESIGNATED AGENT: CHRIS VEASEY
ADDRESS: 101 MCQUISTON DRIVE ADDRESS: 400 SUMMER STREET
CITY: JACKSON CENTER STATE: PA ZIP CODE: 16133 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

ABBEY SOUTH WELL 2MH			
ID	LEASE NUMBER	LESSOR	LEASE ACREAGE
A	101263000	WILLOW CREEK MHV	6.77
B	100969000, 101265000, 101270000, 101261000, 101262000	BARBARA A. BROWN, ET AL	2.15
C	10971000, 101265000, 101270000, 101261000, 101262000	BARBARA A. BROWN L/E, ET AL	2.36
D	101254000	BRYAN BROWN	29.04
E	100972000	BRYAN WAYNE BROWN	0.56
F	100879000, 100880000, 100881000, 100882000, 100883000, 100892000, 100928000, 100916000, 100917000, 100918000, 100919000, 100920000, 100921000, 100922000, 100923000, 100924000, 100925000, 100926000	WV MINERALS, INC., ET AL	34.20
G	BP066839	GEORGIA C. NIXON, WIDOW, ET AL	48.00
H	BP070955	WALTER F. WHITE, ET AL	148.00
I	BP055201, BP058765, BP060623, BP067019, BP067268	H.I. RIFFEE, ET AL	144.00
J	BP044943	O.E. CORDER, ET AL	208.00
K	BP049546	O.E. CORDER, ET AL	10.00
L	BP037526	MARTHA O. GOFF, ET AL	36.00
M	BP024534	A.Y. MCELROY, ET AL	252.00
N	BP066982, BP066983	LLOYD SAYRES, ET AL	88.00
O	BP024394	M.O. GOFF	620.00
P	BP066981	LLOYD SAYRES, ET AL	17.00
Q	BP069917	LLOYD SAYRES, ET AL	5.00
R	BP062676	EMMA L. TETRICK, ET AL	10.00
S	BP066927	ELSIE MAY CURRY, ET AL	46.00
T	BP002907	BELLE S. PAYNE, ET AL	800.00
U	BP024535	HELEN M. COCHRAN, ET AL	270.00

SEE PAGE 1 FOR SURFACE OWNER INFO
SEE PAGE 3 FOR PLAT DUE TO LENGTH OF LATERAL

THRASHER

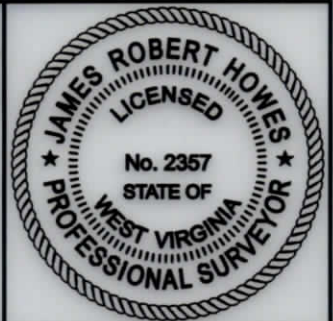
THE THRASHER GROUP, INC.
600 WHITE OAKS BLVD.
BRIDGEPORT, WV 26330
PHONE 304-624-4108



Diversified
Production LLC

FILE #: T70-11275 ABBEY WELL PAD
DRAWING #: ABBEY SOUTH 2MH
SCALE: 1" = 2,000'
DATE: OCTOBER 7, 2024

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 THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



MINIMUM DEGREE OF ACCURACY: 1/2500
PROVEN SOURCE SURVEY GRADE GPS OF ELEVATION: (NAVD 88, US FT)

SIGNED: James R Howes
R.P.E.: _____ L.L.S.: P.S. No. 2357



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP
OFFICE OF OIL & GAS 601
57TH STREET
CHARLESTON, WV 25304

OPERATOR'S WELL #: ABBEY SOUTH 2MH
API WELL #: 47 33 06043
STATE COUNTY PERMIT

WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW
WATERSHED: WEST FORK ELEVATION: 996.09'±
COUNTY/DISTRICT: HARRISON / CLAY-OUTSIDE QUADRANGLE: ROSEMONT, WV 7.5'
SURFACE OWNER: LONG RIDGE WEST VIRGINIA LLC ACREAGE: 6.77± 11/29/2024
OIL & GAS ROYALTY OWNER: WILLOW CREEK MHV, LLC ACREAGE: 6.77±
DRILL DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
CONVERT PLUG & ABANDON CLEAN OUT & REPLUG PERFORATE NEW FORMATION
OTHER CHANGE (SPECIFY): _____
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: (LATERAL) TVD: 7,763'± TMD: 27,727'±

WELL OPERATOR: DIVERSIFIED PRODUCTION, LLC DESIGNATED AGENT: CHRIS VEASEY
ADDRESS: 101 MCQUISTON DRIVE ADDRESS: 400 SUMMER STREET
CITY: JACKSON CENTER STATE: PA ZIP CODE: 16133 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

BHL is located on topo map 4,933 feet south of Latitude: 39° 20' 00"
 SHL is located on topo map 422 feet south of Latitude: 39° 22' 30"

ABBHEY SOUTH 2MH

PAGE 3 OF 3

WELL PAD
ORIENTATION
DETAIL
NTS



WELL RESTRICTIONS

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



NOTES ON SURVEY

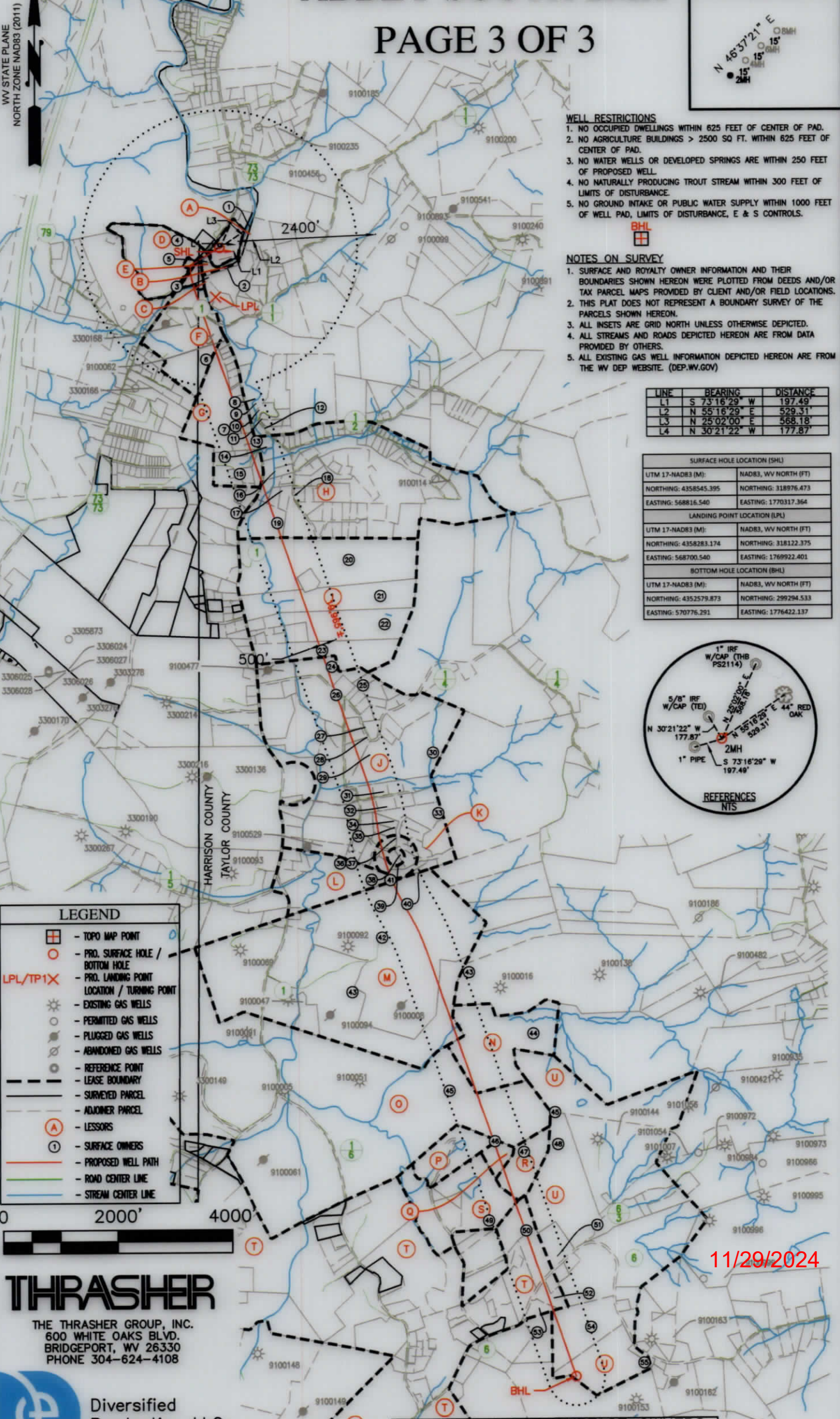
1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
3. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.
4. ALL STREAMS AND ROADS DEPICTED HEREON ARE FROM DATA PROVIDED BY OTHERS.
5. ALL EXISTING GAS WELL INFORMATION DEPICTED HEREON ARE FROM THE WV DEP WEBSITE. (DEP.WV.GOV)

LINE	BEARING	DISTANCE
L1	S 73°16'29" W	197.49'
L2	N 55°16'29" E	529.31'
L3	N 25°02'00" E	568.18'
L4	N 30°21'22" W	177.87'

SURFACE HOLE LOCATION (SHL)	
UTM 17-NAD83 (M):	NAD83, WV NORTH (FT)
NORTHING: 4358545.395	NORTHING: 318976.473
EASTING: 568816.540	EASTING: 1770317.364
LANDING POINT LOCATION (LPL)	
UTM 17-NAD83 (M):	NAD83, WV NORTH (FT)
NORTHING: 4358283.174	NORTHING: 318122.375
EASTING: 568700.540	EASTING: 1769922.401
BOTTOM HOLE LOCATION (BHL)	
UTM 17-NAD83 (M):	NAD83, WV NORTH (FT)
NORTHING: 4352579.873	NORTHING: 299294.533
EASTING: 570776.291	EASTING: 1776422.137



GRID NORTH
WV STATE PLANE
NORTH ZONE NAD83 (2011)



LEGEND

- TOPO MAP POINT
- PRO. SURFACE HOLE / BOTTOM HOLE
- PRO. LANDING POINT LOCATION / TURNING POINT
- EXISTING GAS WELLS
- PERMITTED GAS WELLS
- PLUGGED GAS WELLS
- ABANDONED GAS WELLS
- REFERENCE POINT
- LEASE BOUNDARY
- SURVEYED PARCEL
- ADJOINER PARCEL
- LESSORS
- SURFACE OWNERS
- PROPOSED WELL PATH
- ROAD CENTER LINE
- STREAM CENTER LINE

THRASHER
 THE THRASHER GROUP, INC.
 600 WHITE OAKS BLVD.
 BRIDGEPORT, WV 26330
 PHONE 304-624-4108

Diversified Production LLC

SEE PAGE 1 FOR SURFACE OWNERS
 SEE PAGE 2 FOR LESSOR INFO

11/29/2024

BHL is located on topo map 3,509 feet west of Longitude: 80° 10' 00"
 SHL is located on topo map 9,724 feet west of Longitude: 80° 12' 30"

**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 attached

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**Co-tenancy utilization - At least 7 mineral owners in tract. At least 75% of the royalty owners have executed a lease on the tract. The interests of the remaining co-tenants were acquired pursuant to the Co-tenancy Modernization and Majority Protection Act.*

**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: Diversified Production, LLC
 By: Amy L. Morris *Amy L. Morris*
 Its: Director of Regulatory Affairs - Aux Energy, LLC (consultant)

4703306043

Parcel ID#	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
A	5-210-44.2	101263000	Willow Creek MHV LLC	LONG RIDGE WEST VIRGINIA, LLC	16%	1776	938
B	5-210-44.3	100969000, 101265000, 101270000, 101261000, 101262000	Barbara A. Brown	LONG RIDGE WEST VIRGINIA, LLC	17%	1756	1321
			James Gordon Coughlin, II	LONG RIDGE WEST VIRGINIA, LLC	17%	1774	1128
			Katherine Jean Coughlin Oldham	LONG RIDGE WEST VIRGINIA, LLC	17%	1774	1128
			Linda Federspiel	LONG RIDGE WEST VIRGINIA, LLC	17%	1774	1137
			Daleen Brown	LONG RIDGE WEST VIRGINIA, LLC	17%	1774	1134
			Brenda Nixon	LONG RIDGE WEST VIRGINIA, LLC	17%	1774	1131
C	5-210-44.8	100971000, 101265000, 101270000, 101261000, 101262000	Barbara A. Brown L/E	LONG RIDGE WEST VIRGINIA, LLC	17%	1756	1319
			Tonya Isenhardt	LONG RIDGE WEST VIRGINIA, LLC	17%	1756	1319
			James Gordon Coughlin, II	LONG RIDGE WEST VIRGINIA, LLC	17%	1774	1128
			Katherine Jean Coughlin Oldham	LONG RIDGE WEST VIRGINIA, LLC	17%	1774	1128
			Linda Federspiel	LONG RIDGE WEST VIRGINIA, LLC	17%	1774	1137
			Daleen Brown	LONG RIDGE WEST VIRGINIA, LLC	17%	1774	1134
			Brenda Nixon	LONG RIDGE WEST VIRGINIA, LLC	17%	1774	1131
D	5-210-44A	101254000	Bryan Brown	LONG RIDGE WEST VIRGINIA, LLC	16%	1775	655
E	5-210-44.1	100972000	Bryan Wayne Brown	LONG RIDGE WEST VIRGINIA, LLC	16%	1775	657
F	5-210-55	100879000, 100880000, 100881000, 100882000, 100883000, 100892000, 100928000, 100916000, 100917000, 100918000, 100919000, 100920000, 100921000, 100922000, 100923000, 100924000, 100925000, 100926000	WV Minerals, Inc.	LONG RIDGE WEST VIRGINIA, LLC	18%	1755	1147
			Stephen Snyder	LONG RIDGE WEST VIRGINIA, LLC	15%	1748	731
			Barbara Ann Snyder Twigg	LONG RIDGE WEST VIRGINIA, LLC	14%	1747	1122
			Patricia Snyder Hollman	LONG RIDGE WEST VIRGINIA, LLC	14%	1755	64
			Jesse R. Leaf	LONG RIDGE WEST VIRGINIA, LLC	18%	N/A	N/A
			Dallas D. Leaf	LONG RIDGE WEST VIRGINIA, LLC	18%	N/A	N/A
			Marlane Colvin Leaf	LONG RIDGE WEST VIRGINIA, LLC	15%	1781	778
			Jason Post	LONG RIDGE WEST VIRGINIA, LLC	14%	1747	1120
			John David Snyder, II	LONG RIDGE WEST VIRGINIA, LLC	15%	1747	1118
			Jaclyn L. Snyder	LONG RIDGE WEST VIRGINIA, LLC	15%	1747	1116
			Thomas A. Grogg	LONG RIDGE WEST VIRGINIA, LLC	18%	1753	468
			Daniel P. Grogg	LONG RIDGE WEST VIRGINIA, LLC	18%	1753	474
			Harold Larry Grogg	LONG RIDGE WEST VIRGINIA, LLC	18%	1753	478
			Kathy R. Lee	LONG RIDGE WEST VIRGINIA, LLC	18%	1753	476
			Terry A. Grogg	LONG RIDGE WEST VIRGINIA, LLC	18%	1753	472
			Kevin S. Grogg	LONG RIDGE WEST VIRGINIA, LLC	18%	1753	470
			Adam Matthew Lindsay	LONG RIDGE WEST VIRGINIA, LLC	18%	1752	461
			Mark Lindsay AKA Mark Andrew Lindsay	LONG RIDGE WEST VIRGINIA, LLC	18%	1752	457
			Alexander Scott Swiger	LONG RIDGE WEST VIRGINIA, LLC	18%	1752	459
			Racquel Ann Buffey	LONG RIDGE WEST VIRGINIA, LLC	18%	1752	455
Charles Rodney Lindsay, Jr.	LONG RIDGE WEST VIRGINIA, LLC	18%	1752	453			

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*Co-tenancy utilization -Parcels aquired using co-tenancy are highlighted in yellow.

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G	3-6-45.5 3-6-45.16 3-6-45.17 3-6-45.7 3-6-45.21 3-6-45.11 3-6-45.4 3-6-45.3 3-6-45.2 3-6-45.1	100751000	GEORGIA C. NIXON, WIDOW; KEITH WOODRUFF AND VELMA WOODRUFF, HIS WIFE; AND ERNESTINE STANLEY, A MARRIED WOMAN	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	23	255
			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	138	270
			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	5	555
			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
			DOMINION TRANSMISSION, INC.	TRIANA ENERGY, LLC	ASSIGNMENT	33	377
			TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	39	69
			M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	39	148
			H	3-6B-47.50 3-6B-47.22 3-6B-47.5	100815000	WALTER F. WHITE AND VIRGINIA E. WHITE, HIS WIFE	HOPE NATURAL GAS COMPANY
HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED				138	270
CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT				5	555
CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE				51	795
CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE				58	362
DOMINION TRANSMISSION, INC.	TRIANA ENERGY, LLC	PARTIAL ASSIGNMENT				33	377
TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT				39	69
M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	39	148			
I	3-13-2 3-13-3 3-13-4.3 3-13-6	100723000 100730000 100712000 100711000 100710000	H.I RIFFEE, WIDOWER	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	20	310
			LENORA PHILLIPS MAXWELL AND LEEMAN M. MAXWELL, WIFE AND HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	22	173
			BRAXIE O. GRAGG AND GEORGE GRAGG, WIFE AND HUSBAND; AND VIRGIL SEESE AND GOLDIE SEESE, HUSBAND AND WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	23	346
			ISABELLA RIFFEE; ELEN RUTH PHILLIPS AND CHARLES M. PHILLIPS, HER HUSBAND; BERTHENA RIFFEE, SINGLE; ALLIE M. KINNEY, WIDOW; SYLVIA R. SMITH AND THOMAS A. SMITH, HER HUSBAND; EVA J. LINDIMORE AND A.O. LINDIMORE, HER HUSBAND; GOLDIE ICE AND ORIS I. ICE, SR., HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	23	403
			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	138	270
			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	5	555
			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
			DOMINION TRANSMISSION, INC.	TRIANA ENERGY, LLC	PARTIAL ASSIGNMENT	33	377
			TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	39	69
			M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	39	148

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J	3-13-8 3-13-8.1 3-13-9.2 3-13-9.16 3-13-9.1 3-13-9.17 3-13-9.14 3-13-9.13 3-13-21.6 3-13-21.8 3-13-21.11 3-13-21.7 3-13-21.34 3-13-21.36 p/o 3-13-21.37 p/o 3-13-21.38	100652000	O.E. CORDER AND MARTHA CORDER, HUSBAND AND WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	14	225
			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	138	270
			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	5	555
			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
			DOMINION TRANSMISSION, INC.	TRIANA ENERGY, LLC	PARTIAL ASSIGNMENT	33	377
			TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	39	69
			M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	39	148
			K	p/o 3-13-21.38 p/o 3-13-21.25 p/o 3-13-21.24 p/o 3-13-21.27	100653000	O.E. CORDER AND MARTHA CORDER, HUSBAND AND WIFE	HOPE NATURAL GAS COMPANY
HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED				138	270
CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT				5	555
CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE				51	795
CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE				58	362
DOMINION TRANSMISSION, INC.	TRIANA ENERGY, LLC	PARTIAL ASSIGNMENT				33	377
TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT				39	69
M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT				39	148
L	3-13-13.1	100676000	MARTHA O. GOFF	PHILADELPHIA COMPANY OF WEST VIRGINIA	NOT LESS THAN 1/8	8	40
			PITTSBURGH AND WEST VIRGINIA GAS COMPANY; AND PHILADELPHIA OIL COMPANY OF WEST VIRGINIA	HOPE NATURAL GAS COMPANY	ASSIGNMENT	23	375
			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	138	270
			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	5	555
			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
			DOMINION TRANSMISSION, INC.	TRIANA ENERGY, LLC	PARTIAL ASSIGNMENT	33	377
			TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	39	69
			M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	39	148
M	3-13-16.6 3-13-16	100672000	A. Y. MCELROY AND SALLIE MCELROY	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	7	131
			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	138	270
			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	5	555
			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
			DOMINION TRANSMISSION, INC.	TRIANA ENERGY, LLC	PARTIAL ASSIGNMENT	33	377
			TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	39	69
			M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	39	148

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*Co-tenancy utilization -Parcels aquired using co-tenancy are highlighted in yellow.

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N	3-14-17	100777000	LLOYD SAYRES & ELIZABETH SAYRES, HIS WIFE; NELLIE FITZBUGH & EARL D. FITZBUGHT, HER HUSBAND; ORVAL SAYRES, SINGLE; ELSIE SWIGER, WIDOW	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	23	363
			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	138	270
			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	5	555
			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
			DOMINION TRANSMISSION, INC.	TRIANA ENERGY, LLC	PARTIAL ASSIGNMENT	33	377
			TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	39	69
			M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	39	148
O	3-14-16	100670000	M.O. GOFF	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	35	623
			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	138	270
			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	5	555
			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
			DOMINION TRANSMISSION, INC.	TRIANA ENERGY, LLC	PARTIAL ASSIGNMENT	33	377
			TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	39	69
			M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	39	148
P	p/o 3-14-15	100776000	LLOYD SAYRES & ELIZABETH SAYRES, HIS WIFE; NELLIE FITZBUGH & EARL D. FITZBUGHT, HER HUSBAND; ORVAL SAYRES, SINGLE; ELSIE SWIGER, WIDOW	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	23	359
			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	138	270
			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	5	555
			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
			DOMINION TRANSMISSION, INC.	TRIANA ENERGY, LLC	PARTIAL ASSIGNMENT	33	377
			TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	39	69
			M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	39	148
Q	p/o 3-14-15	100806000	LLOYD SAYRES & ELIZABETH SAYRES, HIS WIFE; NELLIE FITZBUGH & EARL D. FITZBUGHT, HER HUSBAND; ORVAL SAYRES, SINGLE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	24	305
			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	138	270
			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	5	555
			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
			DOMINION TRANSMISSION, INC.	TRIANA ENERGY, LLC	PARTIAL ASSIGNMENT	33	377
			TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	39	69
			M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	39	148
R	3-14-14	100743000	EMMA L. TETRICK, WIDOW AND VIRGINIA D. COLE AND RICHARD L. COLE, HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	30	77
			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	138	270
			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	5	555
			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
			DOMINION TRANSMISSION, INC.	TRIANA ENERGY, LLC	ASSIGNMENT	33	377
			TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	39	69
			M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	39	148

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S	3-14-13	100768000	ELSIE MAY CURRY AND DENZEL CURREY, HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	23	315
			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	138	270
			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	5	555
			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
			DOMINION TRANSMISSION, INC.	TRIANA ENERGY, LLC	ASSIGNMENT	33	377
			TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	39	69
			M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	39	148
T	3-14-10.6 p/o 3-14-24.3 3-14-25 3-14-25.2	100657000	BELLE S. PAYNE, COMMITTEE OF WALDO W. PAYNE, AN INSANE PERSON AND SPECIAL COMMISSIONER	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	4	587
			SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	42	342
			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	138	270
			PITTSBURGH & WEST VIRGINIA GAS COMPANY	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	5	555
			EQUITABLE GAS COMPANY	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
			EQUITRANS, INC	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
			EQT CAPITAL CORPORATION	TRIANA ENERGY, LLC	ASSIGNMENT	33	377
			EQUITABLE GAS COMPANY, LLC	M4 ENERGY, LLC	ASSIGNMENT	1727	722
			EQUITRANS, LP	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	1736	142
U	3-14-27.5 3-14-27.4	100673000	HELEN M. COCHRAN, WIDOW; RACHEL COCHRAN, SINGLE; Z.B. COCHRAN & INGABE COCHRAN, HIS WIFE; HELEN LORETTA SAYERS & W.H. SAYERS, HER HUSBAND; MINERVA A. STARK & ATWELL STARK, HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	7	133
			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	138	270
			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	5	555
			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
			DOMINION TRANSMISSION, INC.	TRIANA ENERGY, LLC	ASSIGNMENT	33	377
			TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	39	69
			M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	39	148

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September 26, 2024

Mr. Charles T. Brewer
Assistant Chief
WVDEP – Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304

RE: Road Crossings

Dear Taylor:

On behalf of Diversified Production Company, LLC and Long Ridge West Virginia LLC, Aux Energy is submitting this road crossing letter for the Abbey South 2MH.

Diversified Production LLC has obtained the right to drill, extract and produce the minerals under the following routes in the area reflected on the Country South 2MH well plat.

CR 1
CR 6
CR 1/4

A full title search in the relevant Court House confirms the ownership under said County Route and we are not currently aware of any recorded document that would suggest ownership other than Diversified.

If your office has any questions or concerns regarding the contents of this letter, please do not hesitate to contact me directly at 304-376-0111 or by email at amy@aux-energy.com.

Sincerely,

Amy L. Morris
Director of Regulatory Affairs

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11/29/2024

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

Date of Notice Certification: 10/01/2024

API No. 47- 033 -

Operator's Well No. Abbey South 2MH

Well Pad Name: Abbey

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>568,816.540</u>
County:	<u>Harrison</u>		Northing:	<u>4,358,545.395</u>
District:	<u>Clay- Outside</u>	Public Road Access:	<u>Middletown Rod Rt. 73/73</u>	
Quadrangle:	<u>Rosemont 7.5'</u>	Generally used farm name:	<u>Long Ridge West Virginia LLC</u>	
Watershed:	<u>West Fork</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.

<p>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:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 40px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p>OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED</p>
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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.

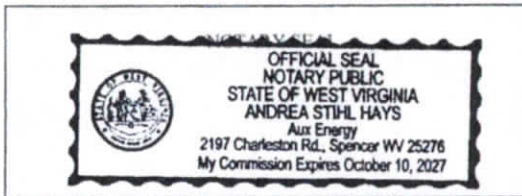
4703306043

WW-6AC
(1/12)

Certification of Notice is hereby given:

THEREFORE, I Amy L. Morris, 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:	<u>Diversified Production, LLC</u>	Address:	<u>101 McQuiston Drive</u>
By:	<u>Amy L. Morris (Authorized Permitting Agent)</u>		<u>Jackson Center, PA 16133</u>
Its:	<u>Director of Regulatory Affairs, Aux Energy, LLC</u>	Facsimile:	
Telephone:	<u>304-376-0111</u> <i>amy@auxenergy.com</i>	Email:	<u>amy@aux-energy.com</u>



Subscribed and sworn before me this 1st day of Oct. 2024
Andrea Stihl Hays *Andrea S. Hays* Notary Public
 My Commission Expires 10/10/2027

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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Environmental Protection

11/29/2024

**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: 10/2/2024 **Date Permit Application Filed:** 10/3/2024

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: Long Ridge West Virginia LLC
 Address: 501 Corporate Drive, Suite 210
Canonsburg, PA 15317
 Name: _____
 Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)
 Name: Long Ridge West Virginia LLC
 Address: 501 Corporate Drive, Suite 210
Canonsburg, PA 15317
 Name: _____
 Address: _____

SURFACE OWNER(s) (Impoundments or Pits)
 Name: N/A
 Address: _____

COAL OWNER OR LESSEE
 Name: Long Ridge West Virginia LLC
 Address: 501 Corporate Drive, Suite 210
Canonsburg, PA 15317

COAL OPERATOR
 Name: N/A
 Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
 Name: *See attached list
 Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
 Name: N/A
 Address: _____

*Please attach additional forms if necessary

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WW-6A
(8-13)

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APIN^{NO.} 4703306043
OPERATOR WELL NO. Abbey South 2MH
Well Pad Name: Abbey

WV Department of
Environmental Protection

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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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.**

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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WW-6A
(8-13)

API NO. 47-033 -
OPERATOR WELL NO. Abbey South 2MH
Well Pad Name: Abbey

Notice is hereby given by:

Well Operator: Diversified Production, LLC
Telephone: 304-376-0111
Email: amy@aux-energy.com *amy@aux-energy.com*

Address: 101 McQuiston Drive
Jackson Center, PA 16133
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.



Subscribed and sworn before me this 1st day of Oct., 2024.
Andrea Stihl Hays *Andrea S. Hays* Notary Public
My Commission Expires 10/10/2027

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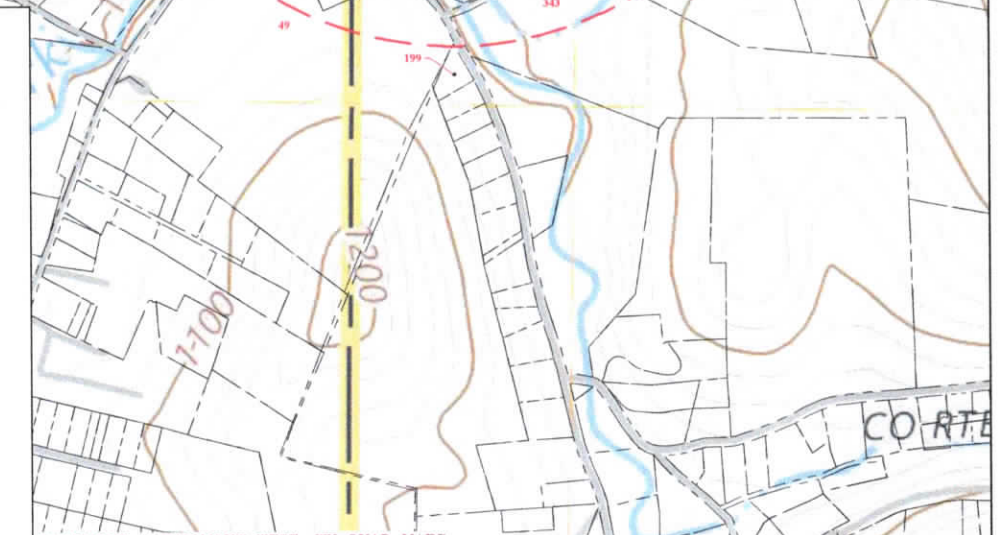
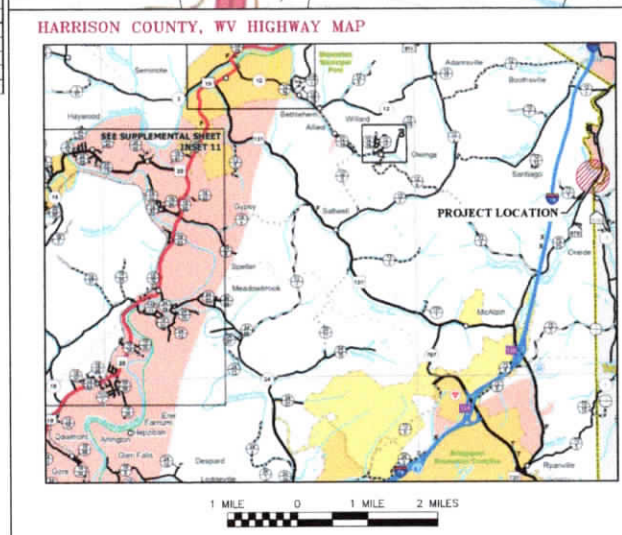
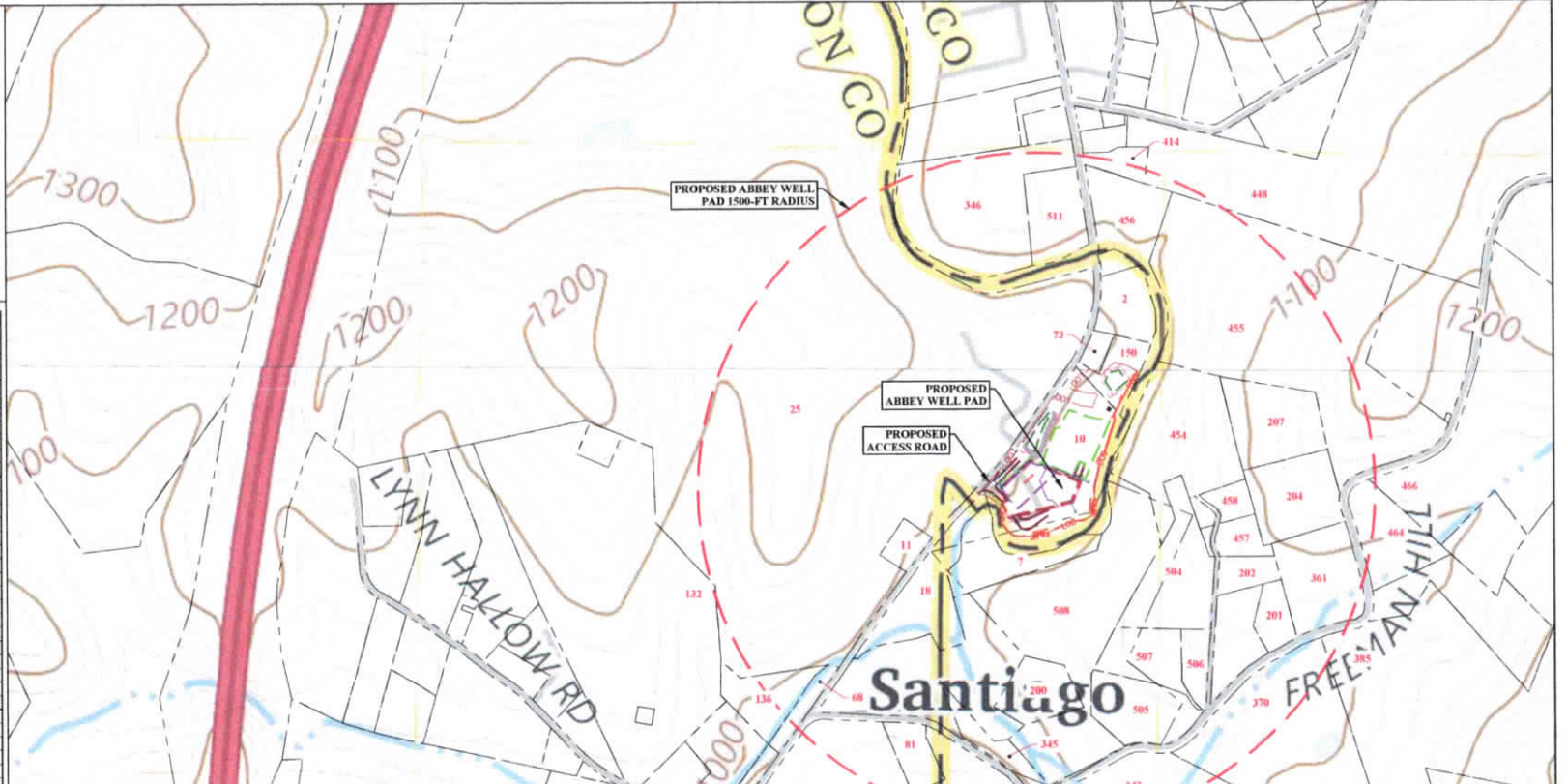
WV Department of Environmental Protection
 1515 Market Street, Charleston, WV 25302
 PHONE: (304) 251-6300 FAX: (304) 251-6301
 WWW: www.dep.wv.gov

PLAN LEGEND

- EXISTING CONTOURS
- PROPERTY LINES
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED ROAD EDGE
- PROPOSED PAD OUTLINE
- PROPOSED WELL PAD PERIMETER BERM
2000-FT RADIUS FROM PAD
(AREAS WITHIN LIMITS WILL BE SAMPLED)

PREVAILING WIND DIRECTION

PROPOSAL NO.	OWNER	PROPOSAL DESCRIPTION	PROPOSAL STATUS
1	17-02-0210-0044-0004	GEN-HARTON/ASHBURN BRIDGE/ALPHEA TRUST	412 MIDDLETON RD SHREVEPORT 28-431
2	17-02-0210-0044-0003	BROWN BARBARA	SHREVEPORT 28-431
3	17-02-0210-0044-0002	LONG ROUGE WEST VIRGINIA LLC	38 CANTON DR. SHREVEPORT 28-431
4	17-02-0210-0044-0001	BROWN BARBARA & BRUNNEN PHASE	187 MIDDLETON RD SHREVEPORT 28-431
5	17-02-0210-0044-0000	BROWN BARBARA	138 MIDDLETON RD SHREVEPORT 28-431
6	17-02-0210-0044-0000	BROWN BARBARA TO ESTATE 210	138 MIDDLETON RD SHREVEPORT 28-431
7	17-02-0210-0044-0000	SHROCK THOMAS ETAL 338 & ADJAC LINDSEY ETAL 338 ETAL 210	371 MIDDLETON SHREVEPORT 28-431
8	17-02-0210-0044-0001	COTTLE MARK	21 MIDDLETON RD SHREVEPORT 28-431
9	17-02-0210-0044-0000	SHREVEPORT 28-431	388 MIDDLETON RD SHREVEPORT 28-431
10	17-02-0210-0044-0000	CONOR COLTON & CLAVADINE	4814 CORBIN BRANCH RD BRIDGEPORT 28-555 9427
11	17-02-0210-0044-0000	MORRIS RONALD & TASHAWY JACOBSON DBA P&M DEVELOPMENT	1843 FAIRMONT AVE ST 203 FAIRMONT, WV 28354
12	17-02-0210-0044-0000	JEVELL DENISE C & BRUCEWAY	COVINGTON HARTMONT, VA 105 LEVINGTON COVE RD SHREVEPORT, WV 28417
13	17-02-0210-0044-0010	LONG ROUGE WEST VIRGINIA LLC	412 MIDDLETON RD SHREVEPORT 28-431
14	48-03-0008-0015-0014	BAKER CRAIG HERBERT & VINTAGE NICOLE FORD & SURV	4839 CORBIN BRANCH RD BRIDGEPORT 28330
15	48-03-0008-0015-0001	COTTLE MARK	41 FREEMAN HILL RD BRIDGEPORT 28330
16	48-03-0008-0021-0000	CLAY BRIDGE	228 FREEMAN HILL RD BRIDGEPORT 28330
17	48-03-0008-0021-0002	THURGOOD LAWYERS LLP BRIDGEPORT (OFFICE) BUSINESS T	148 W HARRIS HILL RD BRIDGEPORT 28330
18	48-03-0008-0015-0000	LARSON CORREN H & LEONARD L & SURV	1800 SHARPEL SOCIETY ON KEES
19	48-03-0008-0015-0000	LARSON CORREN H & LEONARD L & SURV	1800 SHARPEL SOCIETY ON KEES
20	48-03-0008-0020-0000	LITTLE CHARLES THOMAS & HALDRED C & SURV	114 MIDDLETON RD FAIRMONT WV 28354
21	48-03-0008-0015-0000	TIGHT WEAVER & CROOKBROS LLC	PO BOX 102, ADAMS, WV 26112
22	48-03-0008-0008-0000	SHEDDEN DAVID & KYCE & SURV	129 MIDDLETON RD SHREVEPORT WV 28431
23	48-03-0008-0015-0000	LARSON CORREN H & LEONARD L & SURV	1800 SHARPEL SOCIETY ON KEES
24	48-03-0008-0021-0004	MORRIS RONALD & TASHAWY JACOBSON & SURV	222 FREEMAN HILL RD BRIDGEPORT 28330
25	48-03-0008-0023-0000	CARROLL LEROY ORLEAN WARE & SURV	332 FREEMAN HILL RD BRIDGEPORT 28330
26	48-03-0008-0008-0001	VIVINSON DAVID E & BEVERLY J & SURV	MIDDLETON RD SHREVEPORT 28-431
27	48-03-0008-0015-0000	VIVINSON DAVID E & BEVERLY J & SURV	334 MIDDLETON RD SHREVEPORT 28-431
28	48-03-0008-0015-0001	THURGOOD LAWYERS	148 W HARRIS HILL RD BRIDGEPORT WV 28330
29	48-03-0008-0015-0000	LITTLE CHARLES THOMAS & HALDRED C & SURV	114 MIDDLETON RD FAIRMONT WV 28354
30	48-03-0008-0015-0000	LITTLE CHARLES THOMAS & HALDRED C & SURV	482 MIDDLETON RD SHREVEPORT 28-431
31	48-03-0008-0015-0002	THURGOOD LAWYERS	179 W HARRIS HILL SHREVEPORT 28-431
32	48-03-0008-0015-0003	CHILDERS ROBERT L & SANDRA L & SURV	2031 HIGHLANDTOWN PINE BELMONT WV 28020
33	48-03-0008-0024-0000	BARTH TONY JR	389 FREEMAN HILL RD BRIDGEPORT 28330
34	48-03-0008-0028-0000	VIVINSON DAVID E & SURV	639 FREEMAN HILL RD BRIDGEPORT WV 28330
35	48-03-0008-0021-0001	WAGLER DAVID L & LYNNE M & SURV	52 W HARRIS HILL RD BRIDGEPORT 28330
36	48-03-0008-0017-0000	THURGOOD LAWYERS	159 FREEMAN HILL RD BRIDGEPORT 28330
37	48-03-0008-0017-0002	WELLS JAMES JOHN & STEVEN M & SURV	48 W HARRIS HILL RD BRIDGEPORT 28330
38	48-03-0008-0017-0001	WELLS JAMES JOHN & STEVEN M & SURV	37 W HARRIS HILL RD BRIDGEPORT 28330
39	48-03-0008-0015-0000	COTTLE MARK	35 FREEMAN HILL RD SHREVEPORT 28-431
40	48-03-0008-0008-0001	SHEDDEN DAVID & KYCE & SURV	529 MIDDLETON RD BRIDGEPORT 28330



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NO.	BY	DATE

Diversified Production LLC

THRASHER
 THE THRASHER GROUP, INC.
 CIVIL • ENVIRONMENTAL • CONSULTING • FIELD SERVICES
 600 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 28330
 PHONE: (304) 624-4108 • FAX: (304) 624-7631

SCALE:	DATE: 09.23.2024
DRAWN BY: JCA	DATE: 09.23.2024
CHECKED BY: JCA	DATE: 09.23.2024
APPROVED BY: DATE:	
SURVEY DATE:	
SURVEY BY:	
FIELD BOOK No.:	

DIVERSIFIED PRODUCTION, LLC
 ISSUED FOR PERMITTING PLANS FOR THE
 ABBEY WELL PAD
 HARRISON COUNTY, WV
 POTENTIAL WATER SOURCES

PHASE No.	
CONTRACT No.	
PROJECT No.	T70-11275
SHEET No.	W



COMPLEX PROJECTS
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PLAN ID	PARCEL ID	OWNER NAME	OWNER ADDRESS (PHYSICAL NOT LISTED)
2	17-05-0210-0044-0004	ISENHART TONYA (BROWN BARBARA A TRUST) ✓	412 MIDDLETOWN RD SHINNSTON 26431
7	17-05-0210-0044-0003	BROWN BARBARA A ✓	SHINNSTON 26431
10	17-05-0210-0044-0002	LONG RIDGE WEST VIRGINIA LLC ✓	39 CATHERINE DRIVE, SHINNSTON 26431
11	17-05-0210-0044-0001	BROWN BRYAN WAYNE & JENNIFER PINARD ✓	157 MIDDLETOWN RD SHINNSTON 26431
18	17-05-0210-0044-0008	BROWN BARBARA A ✓	138 MIDDLETOWN RD SHINNSTON 26431
25	17-05-0210-0044-0000	BROWN BARBARA 1/3 ETAL 2/3 ✓	138 MIDDLETON RD SHINNSTON 26431
49	17-05-0210-0055-0000	GROGG THOMAS ETAL 3/8 & ADAM LINDSAY ETAL 3/8 ETAL 2/8 ✓	31 KILDEER DR SHINNSTON 26431
68	17-05-0210-0055-0001	COTTRILL JANET ✓	21 MIDDLETOWN RD SHINNSTON 26431
73	17-05-0210-0044-0005	SASTRAM MARIA R ✓	388 MIDDLETOWN RD SHINNSTON 26431
81	17-05-0210-0054-0000	CONNOR COLTON R & OLIVIA DIANE ✓	4815 CORBIN BRANCH RD BRIDGEPORT 26330 9827
132	17-05-0210-0043-0000	FORREN RICHARD T & TIMOTHY J MANCHIN (DBA FBM DEVELOPMENT) ✓	1543 FAIRMONT AVE STE 203, FAIRMONT, WV 26554
136	17-05-0210-0044-0006	JEWELL DENSEL C & ZANDERAV ✓	C/O DELANI WATSON ETAL 24, 105 LEVERTON COVE RD, SHINNSTON, WV 26431
150	17-05-0210-0044-0010	LONG RIDGE WEST VIRGINIA LLC ✓	412 MIDDLETOWN RD SHINNSTON 26431
199	46-03-0006-0045-0014	BAKER CRAIG HERBERT & WHITNEY NICOLE FORD & SURV ✓	4639 CORBIN BRANCH RD BRIDGEPORT 26330
200	46-03-0006-0018-0001	COTTRILL MARK E ✓	41 FREEMAN HILL RD BRIDGEPORT 26330
201	46-03-0006-0021-0000	CUMMINGS J L ✓	255 FREEMAN HILL RD BRIDGEPORT 26330
202	46-03-0006-0021-0002	TAYLOR SANDRA LOU (LIFE) & ROBERT LEE (LIFE) & EUGENET ✓	146 HAWKHAVEN LN BRIDGEPORT 26330
204	46-03-0006-0014-0000	LARSON DOREEN M & LEONARD L & SURV ✓	16800 SHARP RD, SIDNEY, OH 45365
207	46-03-0006-0013-0000	LARSON DOREEN M & LEONARD L & SURV ✓	16800 SHARP RD, SIDNEY, OH 45365
343	46-03-0006-0020-0000	LITTLE CHARLES THOMAS & MILDRED C & SURV ✓	514 MIDDLETOWN RD, FAIRMONT, WV 26554
345	46-03-0006-0019-0000	TYGART RIVER HYDROCARBONS LLC ✓	PO BOX 520, ATHENS, WV 24712
346	46-03-0006-0006-0000	SHEDLOWSKI DAVID & JOYCE & SURV ✓	529 MIDDLETOWN RD, SHINNSTON, WV 26431
361	46-03-0006-0015-0000	LARSON DOREEN M & LEONARD L & SURV ✓	16800 SHARP RD, SIDNEY, OH 45365
370	46-03-0006-0021-0004	MORRIS ROBERT L & KATHY L & SURV ✓	282 FREEMAN HILL RD BRIDGEPORT 26330
385	46-03-0006-0023-0000	CRANDALL JERRY OR JEAN MARIE & SURV ✓	332 FREEMAN HILL RD BRIDGEPORT 26330
414	46-03-0006-0009-0001	WATKINS DAVID E & BEVERLY A & SURV ✓	MIDDLETOWN RD SHINNSTON 26431
448	46-03-0006-0010-0000	WATKINS DAVID E & BEVERLY A & SURV ✓	554 MIDDLETOWN RD SHINNSTON 26431
454	46-03-0006-0016-0001	TAYLOR SANDRA LOU ✓	146 HAWKHAVEN LN, BRIDGEPORT, WV 26330
455	46-03-0006-0012-0000	LITTLE CHARLES THOMAS & MILDRED C & SURV ✓	514 MIDDLETOWN RD, FAIRMONT, WV 26554
456	46-03-0006-0011-0000	LITTLE CHARLES THOMAS & MILDRED C & SURV ✓	492 MIDDLETOWN RD SHINNSTON 26431

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457	46-03-0006-0016-0002	TAYLOR EUGENE T ✓	172 HAWKHAVEN LN SHINNSTON 26431
458	46-03-0006-0016-0003	CHILDERS ROGER L & SANDRA L & SURV ✓	2031 MORGANTOWN PIKE, BELINGTON, WV 26250
464	46-03-0006-0024-0000	SMITH TONY W JR ✓	380 FREEMAN HILL RD BRIDGEPORT 26330
466	46-03-0006-0026-0000	WYER TERRY D & PATRICIA & SURV ✓	605 FREEMAN HILL RD, BRIDGEPORT, WV 26330
504	46-03-0006-0021-0001	VANGILDER DAVID L & ETHELYN & SURV ✓	52 HAWKHAVEN LN BRIDGEPORT 26330
505	46-03-0006-0017-0000	TENNANT ROBERT WILLIAM II ✓	159 FREEMAN HILL RD BRIDGEPORT 26330
506	46-03-0006-0017-0002	BELCASTRO JOHN II & D'LORAH KAY & SURV ✓	49 HAWKHAVEN LN BRIDGEPORT 26330
507	46-03-0006-0017-0003	WILLIAMS AARON R & ALLISON B & SURV ✓	37 HAWKHAVEN LN BRIDGEPORT 26330
508	46-03-0006-0018-0000	COTTRILL MARK E ✓	35 FREEMAN HILL RD GRAFTON 26354
511	46-03-0006-0006-0001	SHEDLOWSKI DAVID & JOYCE & SURV ✓	529 MIDDLETOWN RD BRIDGEPORT 26330

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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: 8/23/2024 **Date of Planned Entry:** 8/30/2024

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: Long Ridge WV LLC (Well Pad and Access Road)
 Address: 501 Corporate Drive, Suite 210
Canonsburg, PA 15317
 Name: _____
 Address: _____
 Name: _____
 Address: _____

COAL OWNER OR LESSEE
 Name: Long Ridge WV LLC
 Address: 501 Corporate Drive, Suite 210
Canonsburg, PA 15317

MINERAL OWNER(S)
 Name: Willow Creek MHV LLC
 Address: 485 Long Run Road
Flemington, WV 26347

*please attach additional forms if necessary

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OCT 4 2024
WV Department of Environmental Protection

Notice is hereby given:

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

State: <u>West Virginia</u>	Approx. Latitude & Longitude: <u>39.373545; -80.200870</u>
County: <u>Harrison</u>	Public Road Access: <u>73/73 Middletown Road</u>
District: <u>Clay - Outside</u>	Watershed: <u>West Fork River</u>
Quadrangle: <u>Rosemont 7.5'</u>	Generally used farm name: <u>Long Ridge WV LLC</u>

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: Diversified Production, LLC Address: 101 McQuiston Drive
 Telephone: 304-376-0111 Jackson Center, PA 16133
 Email: amy@aux-energy.com Facsimile: _____

Oil and Gas Privacy Notice:

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

11/29/2024

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: 10/02/2024 **Date Permit Application Filed:** 10/03/2024

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

- CERTIFIED MAIL HAND
- RETURN RECEIPT REQUESTED DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)

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

Name: <u>Long Ridge WV LLC (Well Pad and Access Road)</u>	Name: _____
Address: <u>501 Corporate Drive, Suite 210</u>	Address: _____
<u>Canonsburg, PA 15317</u>	_____

Notice is hereby given:

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

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>568,816.540</u>
County: <u>Harrison</u>		Northing: <u>4,358,545.395</u>
District: <u>Clay - Outside</u>	Public Road Access: <u>73/73 Middletown Road</u>	
Quadrangle: <u>Rosemont 7.5'</u>	Generally used farm name: <u>Long Ridge West Virginia LLC</u>	
Watershed: <u>West Fork</u>		

This Notice Shall Include:

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

Well Operator: <u>Diversified Production, LLC</u>	Address: <u>101 McQuiston Drive</u>
Telephone: <u>304-376-0111</u>	<u>Jackson Center, PA 16133</u>
Email: <u>amy@aux-energy.com</u>	Facsimile: _____

Oil and Gas Privacy Notice:

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

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

Office of the District Engineer/Manager

District Four

Post Office Box 4220 · Clarksburg, West Virginia 26302 · (304) 842-1500

Alanna J. Keller, P.E.
Deputy Secretary of Transportation
Deputy Commissioner of Highways

Jimmy Wriston, P. E.
Secretary of Transportation
Commissioner of Highways

October 3, 2024

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

**Subject: DOH Permit for the Abbey Well Pad, Harrison County
Abbey South 2MH Well Site**

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2024-2642 which has been issued to Diversified Production, LLC for access to the State Road for a well site located off Harrison County Route 73/73 SLS MP 2.613.

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: Amy Morris
Diversified Production, LLC
OM, D-4
File

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**Frac Additives List of Chemical Names & CAS #'s
Abbey Pad**

Chemical	CAS
Water	7732-18-5
Silica Substrate	14808-60-7
Hydrochloric Acid (Hydrogen Chloride)	7647-01-0
Water	7732-18-5
Proprietary Blend	Proprietary
Ethylene Glycol	7732-18-5
Hydrotreated light distillate	64742-47-8
Ethoxylated Tridecanol	Proprietary
Non-ionic surfactant	Proprietary
Glutaral	111-30-8
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1
Methyl alcohol	67-56-1

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11/29/2024

WW-6A7
(6-12)

4703306043

OPERATOR: Diversified Production, LLC

WELL NO: Abbey South 2MH

PAD NAME: Abbey

REVIEWED BY: Amy L. Morris (Aux Energy - Consultant)

SIGNATURE: *Amy L. Morris*

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

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Well Restrictions

- 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

*House within 625' is abandoned and does not have a physical address. Barn is empty and never houses animals.

11/29/2024