



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, February 9, 2024
WELL WORK PERMIT
Horizontal 6A / New Drill

DIVERSIFIED PRODUCTION LLC
101 MCQUISTON DRIVE

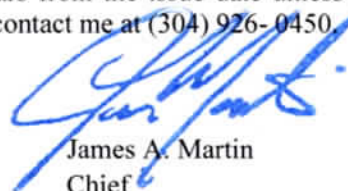
JACKSON CENTER, PA 16133

Re: Permit approval for COUNTRY SOUTH 8MH
47-033-06028-00-00

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: COUNTRY SOUTH 8MH
Farm Name: JAMES D MILLER ET AL
U.S. WELL NUMBER: 47-033-06028-00-00
Horizontal 6A New Drill
Date Issued: 2/9/2024

Promoting a healthy environment.

02/16/2024

PERMIT CONDITIONS

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

CONDITIONS

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

02/16/2024

PERMIT CONDITIONS

12. The operator shall install a sound barrier on the south side of the auxiliary pad near the home on the adjacent property. Similarly, the operator shall install a sound barrier on the west side of the well pad. These barriers shall be installed prior to well work and will remain in place for the duration of all well work.
13. The operator shall install crown lights that are designed to direct light onto the well pad to minimize the impact on the surrounding area.
14. The operator shall install all equipment on the auxiliary pad on the northern side of the pad to put the maximum distance between the equipment and the home on the adjacent property.



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601 57th Street, S.E.
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Harold D. Ward, Cabinet Secretary
dep.wv.gov

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

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

DATE: January 5, 2024
ORDER NO.: 2024-W-2

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 December 1, 2023, Diversified submitted a well work permit application identified as API# 47-033-06024. The well is located on the Country Pad in the Clay District of Harrison County, West Virginia.
4. On December 1, 2023, Diversified requested a waiver for Wetlands WL-6 and WL-8 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# 47-033-06024. The waiver request also included Thomas Fork, Wetland WL-1, Wetland WL-9 and Wetland WL-10, which will be excluded from this waiver because they are more than 100' from the limits of disturbance of the well pad.

CONCLUSIONS OF LAW

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

ORDER

West Virginia Code §22-6A-12(b) requires, in part, that "no well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland. The Office of Oil and Gas grants the request for a waiver for Wetlands WL-6 and WL-8 from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-033-06024. The Office of Oil and Gas hereby **ORDERS** that Diversified shall meet the following site construction and operational requirements for the Fiber II 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. Wetlands WL-6 and WL-8 shall be protected by the pad perimeter berm and two rows of 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.

Thus ORDERED, the 5th day of January 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

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-Out Rosemont
Operator ID County District Quadrangle

2) Operator's Well Number: Country South 8MH Well Pad Name: Country

3) Farm Name/Surface Owner: James D. Miller, et al Public Road Access: Benedum Drive, Rt. 73/73

4) Elevation, current ground: 1,136.63' Elevation, proposed post-construction: 1,134.30'

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 = 7,490', Thickness = 130', Pressure = 4,351 psi

8) Proposed Total Vertical Depth: 7,932'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 26,624'

11) Proposed Horizontal Leg Length: 18,397'

12) Approximate Fresh Water Strata Depths: 30'; 540'

13) Method to Determine Fresh Water Depths: Offset well - 47-033-00170, WVGES Coal Mapping Project

14) Approximate Saltwater Depths: 840'

15) Approximate Coal Seam Depths: Allegheny Coal - 545'

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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Environmental Protection

Ky Wilcox
12/18/23

WW-6B
(04/15)

4703306028
API NO. 47-033
OPERATOR WELL NO. Country South 8MH
Well Pad Name: Country

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	30"	New	A	79.43#	100'	100'	216ft ³ /CTS
Fresh Water/Coal	18.625"	New	J55	87.5#	650'	650'	812ft ³ /CTS
*Intermediate 1	13.375"	New	J55	54.5#	2,150'	2,150'	1,494ft ³ /CTS
Intermediate 2	9.625"	New	J55	36#	2,750'	2,750'	861ft ³ /CTS
Production	5.5"	New	P110	20#	26,624'	26,624'	4,653t ³ /6,315ft
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	30"	36"	0.25"	280	90	Ready Mix	N/A
Fresh Water/Coal	18.625#	24"	0.435"	2,250	530	Class A	1.19
*Intermediate 1	13.375"	17.5"	0.38"	2,740	1,750	Class A	1.19 - 1.88
Intermediate 2	9.625"	12.25"	0.352"	3,520	2,240	Class A	1.19 - 1.88
Production	5.5"	8.5"	0.361"	14,360	12,924	Class A	1.99 - 1.55
Tubing	2.375"	N/A	0.19"	11,200	6,544	N/A	N/A
Liners	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Intermediate 1 - storage field interval

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PACKERS

WV Department of
Environmental Protection

Kind:				
Sizes:				
Depths Set:				

Ky Willett
12/18/23

WW-6B
(10/14)

API NO. 47-033 **4703306029**

OPERATOR WELL NO. Country South 8MH

Well Pad Name: Country

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 7,315' and continue to drill the curve and horizontal leg per the proposed plan in the Marcellus formation to an estimated horizontal length of 18,397' (26,624' TMD). Run and cement production casing. Perform CBL and stimulate per plan. Plan is to run a swellable packer to isolate the BHGE storage interval on the intermediate 1 casing string.

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): 16.24 acres

22) Area to be disturbed for well pad only, less access road (acres): 10.17 acres

23) Describe centralizer placement for each casing string:

Conductor: None
Fresh Water: Every 3rd joint from shoe to surface
Mine: N/A
Intermediate 1: Every 3rd joint from shoe to surface
Intermediate 2: Every 3rd joint from shoe to surface
Production: Every other joint from shoe to Top of Cement

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
Mine: N/A
Intermediate 1: Class A with POZ or Fly Ash 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
Intermediate 2: Class A with POZ or Fly Ash 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 Fly Ash 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

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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 fresh water before cementing.
Mine: N/A
Intermediate 1: 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.
Intermediate 2: 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.

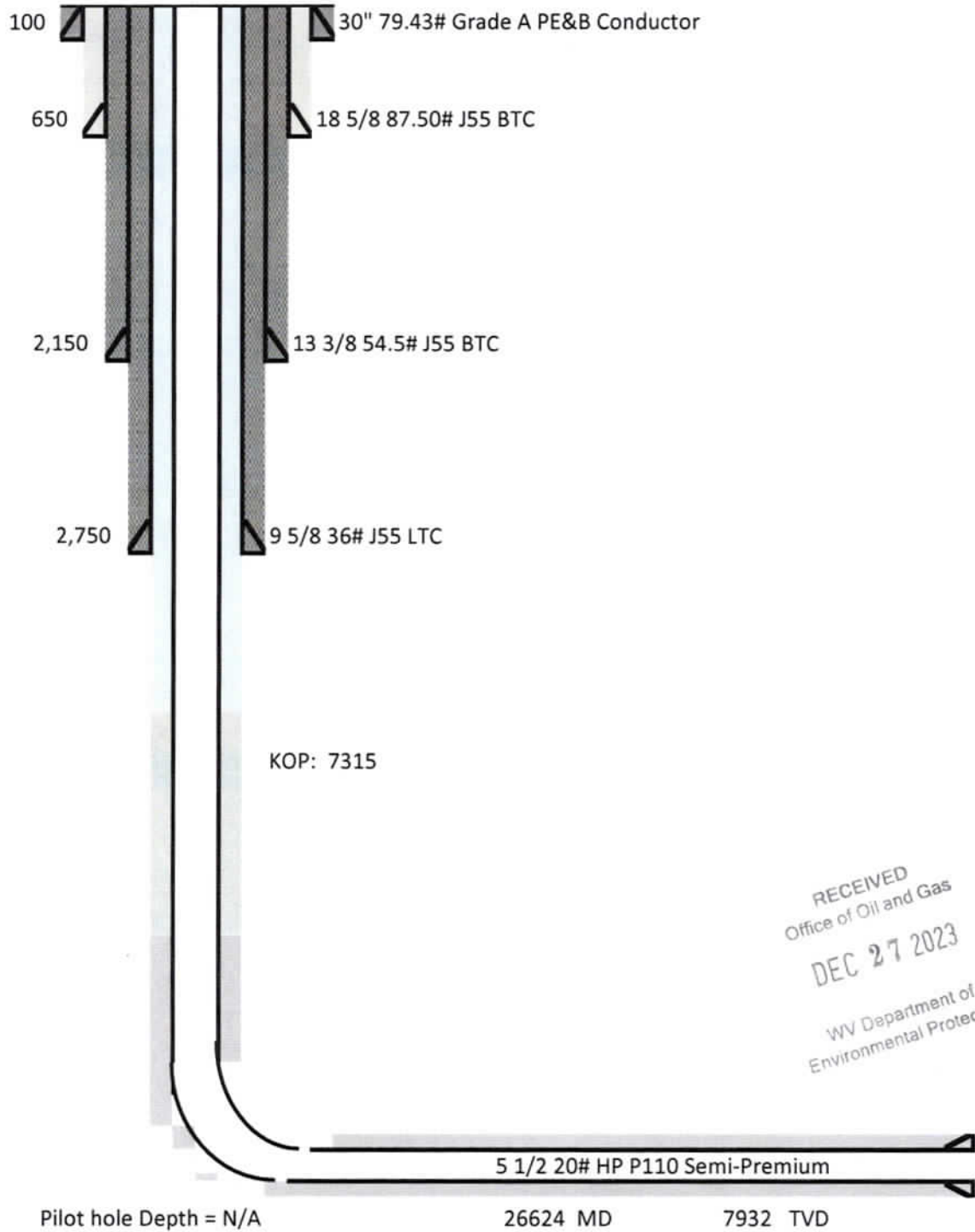
WV Dept.

Environment

*Note: Attach additional sheets as needed.



Country South 8MH Harrison County, West Virginia Well Schematic



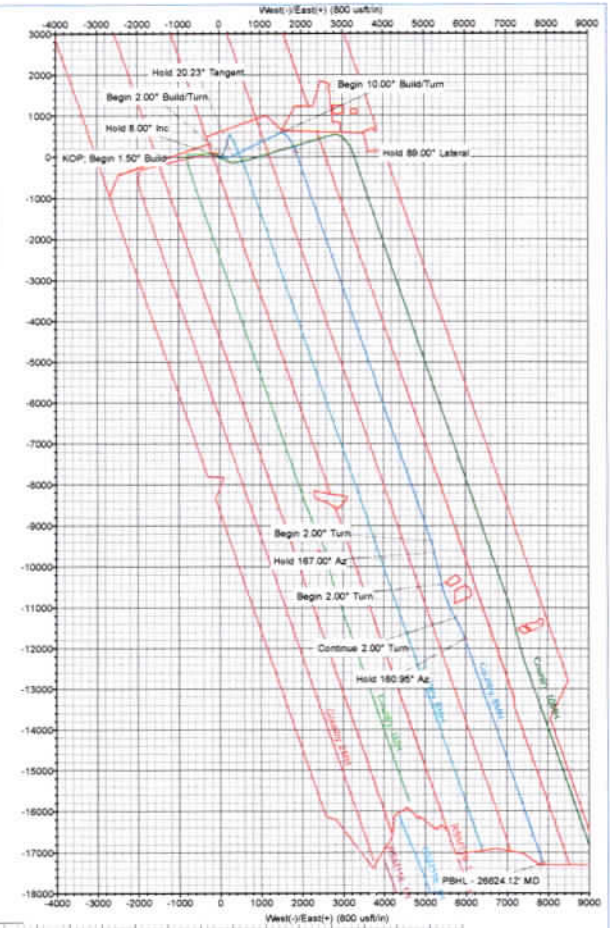
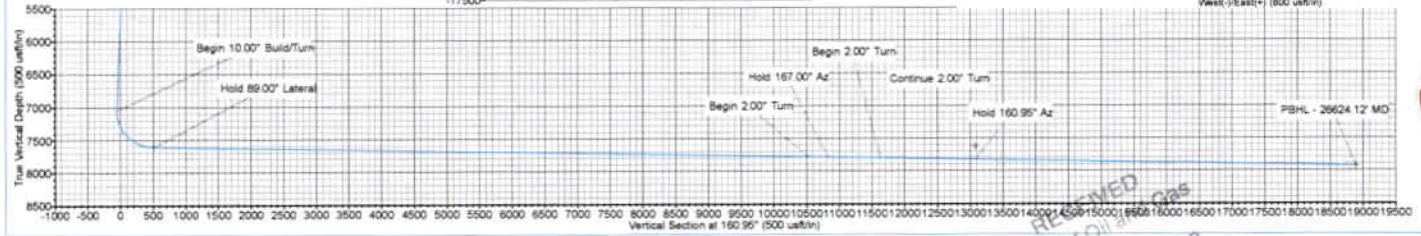
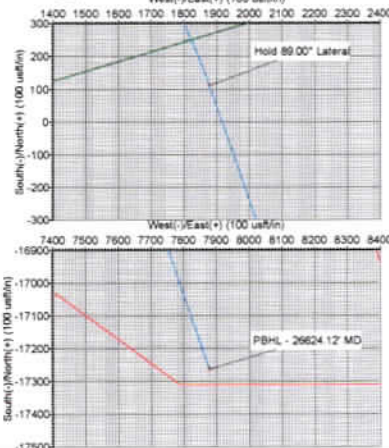
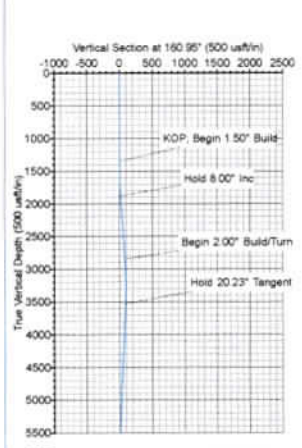
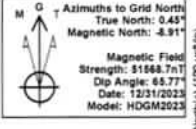
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SECTION DETAILS										
MD	Ino	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSet	Annotation	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP, Begin 1.50' Build	
1360.00	0.00	0.00	1360.00	0.00	0.00	0.00	0.00	0.00	Hold 8.00' Inc	
1883.33	8.00	97.00	1881.80	-4.53	36.90	1.90	97.00	16.32	Begin 2.00' Build/Turn	
2861.25	8.00	97.00	2850.00	-21.12	171.98	0.00	0.00	79.59	Hold 20.23' Tangent	
3566.02	30.23	64.77	3533.05	25.08	331.89	2.00	-49.22	44.56	Begin 10.00' Build/Turn	
7318.08	30.23	64.77	7550.85	877.85	1504.39	0.00	0.00	-54.99	Hold 89.00' Lateral	
8227.02	89.00	160.95	7910.00	110.97	1878.21	10.00	0.00	10530.65	Begin 2.00' Turn	
818251.02	89.00	160.95	7784.84	-3482.81	5148.57	0.00	0.00	96.15	Begin 2.00' Turn	
818553.48	89.00	167.00	7790.23	-4953.13	5233.02	2.00	90.05	10832.49	Continue 2.00' Turn	
1018263.48	89.00	167.00	7504.18	-16423.51	5412.95	0.00	0.00	11827.91	Hold 167.00' Az	
1120235.63	89.00	149.40	7619.89	-11248.22	5726.24	2.00	-90.11	12505.45	Begin 2.00' Turn	
1220814.80	89.00	160.95	7829.82	-11772.71	5981.88	2.00	90.11	13082.41	Hold 160.95' Az	
1320624.12	89.00	160.95	7921.16	-12563.24	7877.78	0.00	0.00	14889.08	PBHL - 26624.12' MD	

DESIGN TARGET DETAILS							
Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
AP v8 - Country BMH	7623.70	-11771.87	5681.59	294834.11	1773274.45	39.321147	-80.190082
LP v10 - Country BMH	7610.00	110.97	1878.21	211716.95	1789171.17	39.353684	-80.204915
PBHL v13 - Country BMH	7931.16	-17863.24	7877.78	294345.74	1773170.84	39.306111	-80.183232

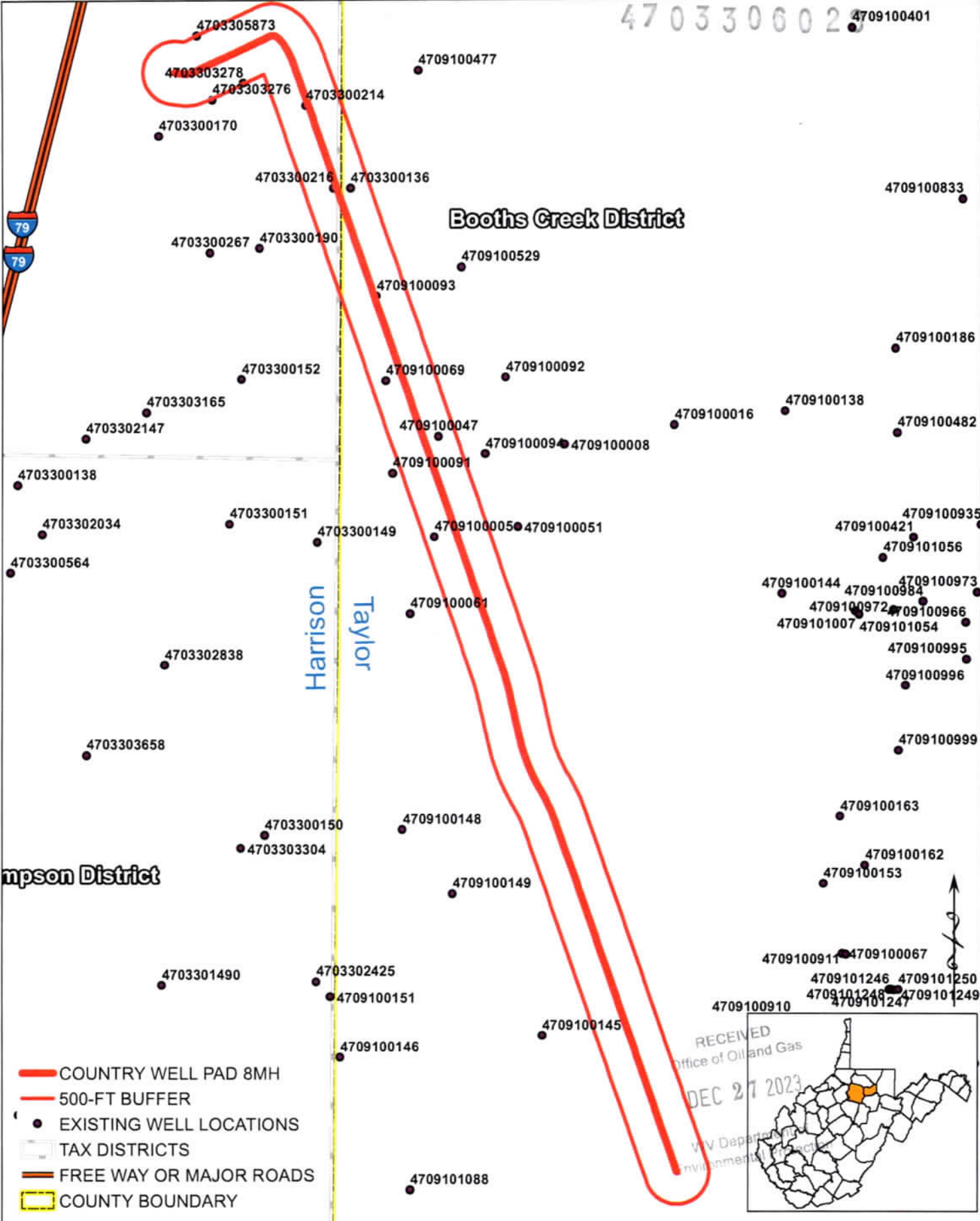
Project Harrison County, WV (NAD83 - GRID)
 Site Country Pad
 Well Country 8MH
 Wellbore Wellbore #1
 Design Design #13

Country 8MH



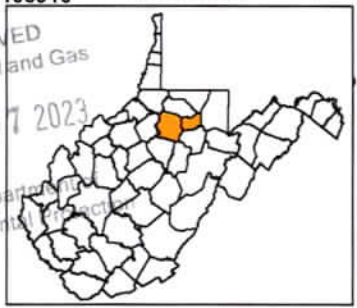
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 WV Department of Environmental Protection

470330602



Document Path: R:\070\T70-11330.00 Country Well Pad\GIS\MXDs\Site Safety Plan\COUNTRY WellPad-8MH-WellBore.mxd

- COUNTRY WELL PAD 8MH
- 500-FT BUFFER
- EXISTING WELL LOCATIONS
- TAX DISTRICTS
- FREE WAY OR MAJOR ROADS
- COUNTY BOUNDARY



Area of Review for Communication Purposes Report

Country South 8MH

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
47-033-05873	Triana Energy, LLC	n/a	n/a	n/a	n/a	Well never drilled.
47-033-03278	Eastern Gas Transmission and Storage, Inc.	no information	no information	no information	no information	Plugged vertical well.
47-033-03276	Eastern Gas Transmission and Storage, Inc.	no information	no information	no information	no information	Plugged vertical well.
47-033-00214	Eastern Gas Transmission and Storage, Inc.	1,816'	Fifth	no information		Active vertical storage well.
47-033-00216	Eastern Gas Transmission and Storage, Inc.	1,901'	Fifty-foot	no information		Active vertical storage well.
47-033-00136	Eastern Gas Transmission and Storage, Inc.	1,862'	Upper Devonian	no information	Well has been plugged.	Plugged vertical well.
47-091-00093	Eastern Gas Transmission and Storage, Inc.	1,814'	Upper Devonian	no information	Will coordinate with EGTS	Active vertical storage well.
47-091-00069	Eastern Gas Transmission and Storage, Inc.	1,909'	Hampshire Group	no information	Will coordinate with EGTS	Active vertical storage well.
47-091-00047	Eastern Gas Transmission and Storage, Inc.	1,631'	Upper Devonian	no information	Will coordinate with EGTS	Active vertical storage well.
47-091-00005	Eastern Gas Transmission and Storage, Inc.	1,547'	Fifty-foot	no information	Will coordinate with EGTS	Active vertical storage well.

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

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47 033 000023

Diversified Production, LLC

Harrison County, WV (NAD83 - GRID)

Country Pad

Country 8MH

Wellbore #1

Plan: Design #13



Standard Plan Report

15 December, 2023

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Total Report Version 1.60

COMPASS 5000.16 Build 97



Company:	Diversified Production, LLC	Local Co-ordinate Reference:	Well Country 8MH
Project:	Harrison County, WV (NAD83 - GRID)	TVD Reference:	WELL @ 1160.00usft (Precision 110)
Site:	Country Pad	MD Reference:	WELL @ 1160.00usft (Precision 110)
Well:	Country 8MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #13	Database:	EDM 5000.1 Single User Db

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

Site	Country Pad				
Site Position:		Northing:	311,934.56 usft	Latitude:	39.354250
From:	Map	Easting:	1,767,737.53 usft	Longitude:	-80.209991
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "		

Well	Country 8MH					
Well Position	+N/-S	0.00 usft	Northing:	311,605.98 usft	Latitude:	39.353338
	+E/-W	0.00 usft	Easting:	1,767,292.86 usft	Longitude:	-80.211554
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft	Ground Level:	1,133.00 usft
Grid Convergence:	-0.45 °					

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2023	12/31/2023	-9.37	65.77	51,568.70000000

Design	Design #13				
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	12/15/2023			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	26,624.12	Design #13 (Wellbore #1)	MWD+HRGM	OWSG MWD + HRGM	

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4703306028



Company:	Diversified Production, LLC	Local Co-ordinate Reference:	Well Country 8MH
Project:	Harrison County, WV (NAD83 - GRID)	TVD Reference:	WELL @ 1160.00usft (Precision 110)
Site:	Country Pad	MD Reference:	WELL @ 1160.00usft (Precision 110)
Well:	Country 8MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #13	Database:	EDM 5000.1 Single User 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	
1,350.00	0.00	0.00	1,350.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,883.33	8.00	97.00	1,881.60	-4.53	36.90	1.50	1.50	0.00	97.00	
2,861.25	8.00	97.00	2,850.00	-21.12	171.98	0.00	0.00	0.00	0.00	
3,566.02	20.23	64.77	3,533.05	25.08	331.69	2.00	1.74	-4.57	-49.22	
7,315.08	20.23	64.77	7,050.85	577.65	1,504.39	0.00	0.00	0.00	0.00	
8,227.02	89.00	160.95	7,610.00	110.97	1,878.31	10.00	7.54	10.55	96.15	LP v10 - Country 8I
18,251.02	89.00	160.95	7,784.94	-9,362.61	5,149.57	0.00	0.00	0.00	0.00	
18,553.48	89.00	167.00	7,790.23	-9,653.13	5,233.02	2.00	0.00	2.00	90.05	
19,353.48	89.00	167.00	7,804.19	-10,432.51	5,412.95	0.00	0.00	0.00	0.00	
20,235.63	89.00	149.40	7,819.69	-11,248.22	5,739.24	2.00	0.00	-2.00	-90.15	
20,814.60	89.00	160.95	7,829.82	-11,772.71	5,981.88	2.00	0.00	2.00	90.11	
26,624.12	89.00	160.95	7,931.16	-17,263.24	7,877.78	0.00	0.00	0.00	0.00	PBHL v13 - Country

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	311,605.98	1,767,292.86	39.353338	-80.211554	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	311,605.98	1,767,292.86	39.353338	-80.211554	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	311,605.98	1,767,292.86	39.353338	-80.211554	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	311,605.98	1,767,292.86	39.353338	-80.211554	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	311,605.98	1,767,292.86	39.353338	-80.211554	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	311,605.98	1,767,292.86	39.353338	-80.211554	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	311,605.98	1,767,292.86	39.353338	-80.211554	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	311,605.98	1,767,292.86	39.353338	-80.211554	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	311,605.98	1,767,292.86	39.353338	-80.211554	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	311,605.98	1,767,292.86	39.353338	-80.211554	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	311,605.98	1,767,292.86	39.353338	-80.211554	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	311,605.98	1,767,292.86	39.353338	-80.211554	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	311,605.98	1,767,292.86	39.353338	-80.211554	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	311,605.98	1,767,292.86	39.353338	-80.211554	0.00	0.00	0.00	0.00
1,350.00	0.00	0.00	1,350.00	0.00	0.00	311,605.98	1,767,292.86	39.353338	-80.211554	0.00	0.00	0.00	0.00
1,400.00	0.75	97.00	1,400.00	-0.04	0.32	311,605.94	1,767,293.19	39.353338	-80.211553	0.14	1.50	1.50	0.00
1,500.00	2.25	97.00	1,499.96	-0.36	2.92	311,605.62	1,767,295.79	39.353337	-80.211544	1.29	1.50	1.50	0.00
1,600.00	3.75	97.00	1,599.82	-1.00	8.12	311,604.98	1,767,300.98	39.353336	-80.211526	3.59	1.50	1.50	0.00
1,700.00	5.25	97.00	1,699.51	-1.95	15.90	311,604.03	1,767,308.77	39.353333	-80.211498	7.04	1.50	1.50	0.00
1,800.00	6.75	97.00	1,798.96	-3.23	26.28	311,602.75	1,767,319.14	39.353330	-80.211461	11.63	1.50	1.50	0.00
1,883.33	8.00	97.00	1,881.60	-4.53	36.90	311,601.45	1,767,329.76	39.353327	-80.211424	16.32	1.50	1.50	0.00

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WV Department of Environmental Protection

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Company:	Diversified Production, LLC	Local Co-ordinate Reference:	Well Country 8MH
Project:	Harrison County, WV (NAD83 - GRID)	TVD Reference:	WELL @ 1160.00usft (Precision 110)
Site:	Country Pad	MD Reference:	WELL @ 1160.00usft (Precision 110)
Well:	Country 8MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #13	Database:	EDM 5000.1 Single User 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 (")				
1,900.00	8.00	97.00	1,898.11	-4.81	39.20	311,601.17	1,767,332.06	39.353326	-80.211416	17.34	0.00	0.00	0.00
2,000.00	8.00	97.00	1,997.13	-6.51	53.01	311,599.47	1,767,345.87	39.353322	-80.211367	23.46	0.00	0.00	0.00
2,100.00	8.00	97.00	2,096.16	-8.21	66.83	311,597.77	1,767,359.69	39.353317	-80.211318	29.57	0.00	0.00	0.00
2,200.00	8.00	97.00	2,195.19	-9.90	80.64	311,596.08	1,767,373.50	39.353313	-80.211269	35.68	0.00	0.00	0.00
2,300.00	8.00	97.00	2,294.21	-11.60	94.45	311,594.38	1,767,387.32	39.353309	-80.211220	41.79	0.00	0.00	0.00
2,400.00	8.00	97.00	2,393.24	-13.29	108.27	311,592.69	1,767,401.13	39.353304	-80.211171	47.90	0.00	0.00	0.00
2,500.00	8.00	97.00	2,492.27	-14.99	122.08	311,590.99	1,767,414.94	39.353300	-80.211122	54.01	0.00	0.00	0.00
2,600.00	8.00	97.00	2,591.29	-16.69	135.89	311,589.29	1,767,428.76	39.353295	-80.211073	60.13	0.00	0.00	0.00
2,700.00	8.00	97.00	2,690.32	-18.38	149.71	311,587.60	1,767,442.57	39.353291	-80.211025	66.24	0.00	0.00	0.00
2,800.00	8.00	97.00	2,789.35	-20.08	163.52	311,585.90	1,767,456.38	39.353287	-80.210976	72.35	0.00	0.00	0.00
2,861.25	8.00	97.00	2,850.00	-21.12	171.98	311,584.86	1,767,464.84	39.353284	-80.210946	76.09	0.00	0.00	0.00
2,900.00	8.53	93.04	2,888.35	-21.60	177.53	311,584.38	1,767,470.39	39.353283	-80.210926	78.36	2.00	1.36	-10.22
3,000.00	10.03	84.85	2,987.04	-21.21	193.61	311,584.77	1,767,486.47	39.353284	-80.210869	83.24	2.00	1.51	-8.19
3,100.00	11.69	78.87	3,085.25	-18.47	212.22	311,587.51	1,767,505.09	39.353292	-80.210803	86.73	2.00	1.65	-5.98
3,200.00	13.44	74.39	3,182.86	-13.39	233.35	311,592.59	1,767,526.22	39.353307	-80.210729	88.82	2.00	1.75	-4.48
3,300.00	15.25	70.94	3,279.74	-5.97	256.97	311,600.01	1,767,549.84	39.353328	-80.210646	89.52	2.00	1.81	-3.45
3,400.00	17.10	68.21	3,375.78	3.78	283.05	311,609.76	1,767,575.91	39.353355	-80.210554	88.81	2.00	1.85	-2.73
3,500.00	18.98	66.01	3,470.86	15.85	311.56	311,621.83	1,767,604.42	39.353389	-80.210453	86.71	2.00	1.88	-2.20
3,566.02	20.23	64.77	3,533.05	25.08	331.69	311,631.06	1,767,624.55	39.353414	-80.210382	84.56	2.00	1.90	-1.87
3,600.00	20.23	64.77	3,564.94	30.09	342.32	311,636.06	1,767,635.18	39.353428	-80.210345	83.29	0.00	0.00	0.00
3,700.00	20.23	64.77	3,658.77	44.82	373.60	311,650.80	1,767,666.46	39.353469	-80.210235	79.57	0.00	0.00	0.00
3,800.00	20.23	64.77	3,752.60	59.56	404.88	311,665.54	1,767,697.74	39.353511	-80.210124	75.85	0.00	0.00	0.00
3,900.00	20.23	64.77	3,846.43	74.30	436.16	311,680.28	1,767,729.02	39.353552	-80.210014	72.13	0.00	0.00	0.00
4,000.00	20.23	64.77	3,940.26	89.04	467.44	311,695.02	1,767,760.30	39.353593	-80.209904	68.40	0.00	0.00	0.00
4,100.00	20.23	64.77	4,034.09	103.78	498.72	311,709.76	1,767,791.58	39.353634	-80.209794	64.68	0.00	0.00	0.00
4,200.00	20.23	64.77	4,127.93	118.52	530.00	311,724.50	1,767,822.86	39.353675	-80.209684	60.96	0.00	0.00	0.00
4,300.00	20.23	64.77	4,221.76	133.26	561.28	311,739.24	1,767,854.14	39.353716	-80.209573	57.24	0.00	0.00	0.00
4,400.00	20.23	64.77	4,315.59	148.00	592.56	311,753.98	1,767,885.42	39.353757	-80.209463	53.52	0.00	0.00	0.00
4,500.00	20.23	64.77	4,409.42	162.74	623.84	311,768.71	1,767,916.70	39.353799	-80.209353	49.79	0.00	0.00	0.00
4,600.00	20.23	64.77	4,503.25	177.47	655.12	311,783.45	1,767,947.98	39.353840	-80.209243	46.07	0.00	0.00	0.00
4,700.00	20.23	64.77	4,597.08	192.21	686.40	311,798.19	1,767,979.26	39.353881	-80.209133	42.35	0.00	0.00	0.00
4,800.00	20.23	64.77	4,690.91	206.95	717.68	311,812.93	1,768,010.54	39.353922	-80.209022	38.63	0.00	0.00	0.00
4,900.00	20.23	64.77	4,784.75	221.69	748.96	311,827.67	1,768,041.82	39.353963	-80.208912	34.90	0.00	0.00	0.00
5,000.00	20.23	64.77	4,878.58	236.43	780.24	311,842.41	1,768,073.10	39.354004	-80.208802	31.18	0.00	0.00	0.00
5,100.00	20.23	64.77	4,972.41	251.17	811.52	311,857.15	1,768,104.38	39.354045	-80.208692	27.46	0.00	0.00	0.00
5,200.00	20.23	64.77	5,066.24	265.91	842.80	311,871.89	1,768,135.66	39.354087	-80.208582	23.74	0.00	0.00	0.00
5,300.00	20.23	64.77	5,160.07	280.65	874.08	311,886.63	1,768,166.94	39.354128	-80.208471	20.02	0.00	0.00	0.00
5,400.00	20.23	64.77	5,253.90	295.39	905.36	311,901.36	1,768,198.22	39.354169	-80.208361	16.29	0.00	0.00	0.00

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Company:	Diversified Production, LLC	Local Co-ordinate Reference:	Well Country 8MH
Project:	Harrison County, WV (NAD83 - GRID)	TVD Reference:	WELL @ 1160.00usft (Precision 110)
Site:	Country Pad	MD Reference:	WELL @ 1160.00usft (Precision 110)
Well:	Country 8MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #13	Database:	EDM 5000.1 Single User 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				
5,500.00	20.23	64.77	5,347.73	310.12	936.64	311,916.10	1,768,229.50	39.354210	-80.208251	12.57	0.00	0.00	0.00
5,600.00	20.23	64.77	5,441.57	324.86	967.92	311,930.84	1,768,260.78	39.354251	-80.208141	8.85	0.00	0.00	0.00
5,700.00	20.23	64.77	5,535.40	339.60	999.20	311,945.58	1,768,292.06	39.354292	-80.208031	5.13	0.00	0.00	0.00
5,800.00	20.23	64.77	5,629.23	354.34	1,030.48	311,960.32	1,768,323.34	39.354333	-80.207920	1.41	0.00	0.00	0.00
5,900.00	20.23	64.77	5,723.06	369.08	1,061.76	311,975.06	1,768,354.62	39.354375	-80.207810	-2.32	0.00	0.00	0.00
6,000.00	20.23	64.77	5,816.89	383.82	1,093.04	311,989.80	1,768,385.90	39.354416	-80.207700	-6.04	0.00	0.00	0.00
6,100.00	20.23	64.77	5,910.72	398.56	1,124.32	312,004.54	1,768,417.18	39.354457	-80.207590	-9.76	0.00	0.00	0.00
6,200.00	20.23	64.77	6,004.55	413.30	1,155.60	312,019.28	1,768,448.46	39.354498	-80.207479	-13.48	0.00	0.00	0.00
6,300.00	20.23	64.77	6,098.39	428.04	1,186.88	312,034.01	1,768,479.74	39.354539	-80.207369	-17.21	0.00	0.00	0.00
6,400.00	20.23	64.77	6,192.22	442.77	1,218.16	312,048.75	1,768,511.02	39.354580	-80.207259	-20.93	0.00	0.00	0.00
6,500.00	20.23	64.77	6,286.05	457.51	1,249.44	312,063.49	1,768,542.30	39.354621	-80.207149	-24.65	0.00	0.00	0.00
6,600.00	20.23	64.77	6,379.88	472.25	1,280.72	312,078.23	1,768,573.58	39.354663	-80.207039	-28.37	0.00	0.00	0.00
6,700.00	20.23	64.77	6,473.71	486.99	1,312.00	312,092.97	1,768,604.86	39.354704	-80.206928	-32.09	0.00	0.00	0.00
6,800.00	20.23	64.77	6,567.54	501.73	1,343.28	312,107.71	1,768,636.14	39.354745	-80.206818	-35.82	0.00	0.00	0.00
6,900.00	20.23	64.77	6,661.37	516.47	1,374.56	312,122.45	1,768,667.42	39.354786	-80.206708	-39.54	0.00	0.00	0.00
7,000.00	20.23	64.77	6,755.21	531.21	1,405.84	312,137.19	1,768,698.70	39.354827	-80.206598	-43.26	0.00	0.00	0.00
7,100.00	20.23	64.77	6,849.04	545.95	1,437.12	312,151.93	1,768,729.98	39.354868	-80.206488	-46.98	0.00	0.00	0.00
7,200.00	20.23	64.77	6,942.87	560.69	1,468.40	312,166.66	1,768,761.26	39.354909	-80.206377	-50.70	0.00	0.00	0.00
7,300.00	20.23	64.77	7,036.70	575.42	1,499.68	312,181.40	1,768,792.54	39.354951	-80.206267	-54.43	0.00	0.00	0.00
7,315.08	20.23	64.77	7,050.85	577.65	1,504.39	312,183.63	1,768,797.26	39.354957	-80.206251	-54.99	0.00	0.00	0.00
7,350.00	20.14	74.90	7,083.63	581.79	1,515.66	312,187.77	1,768,808.53	39.354968	-80.206211	-55.22	10.00	-0.24	29.00
7,400.00	21.01	88.94	7,130.47	584.20	1,532.95	312,190.18	1,768,825.81	39.354975	-80.206150	-51.86	10.00	1.74	28.08
7,450.00	22.92	101.33	7,176.87	582.45	1,551.47	312,188.43	1,768,844.33	39.354971	-80.206084	-44.16	10.00	3.81	24.78
7,500.00	25.63	111.58	7,222.46	576.56	1,571.08	312,182.54	1,768,863.95	39.354955	-80.206015	-32.19	10.00	5.42	20.49
7,550.00	28.92	119.81	7,266.91	566.57	1,591.64	312,172.54	1,768,884.51	39.354928	-80.205942	-16.04	10.00	6.58	16.47
7,600.00	32.61	126.41	7,309.88	552.55	1,612.99	312,158.53	1,768,905.85	39.354890	-80.205866	4.18	10.00	7.39	13.20
7,650.00	36.59	131.77	7,351.04	534.61	1,634.96	312,140.59	1,768,927.83	39.354841	-80.205788	28.31	10.00	7.95	10.70
7,700.00	40.76	136.18	7,390.07	512.90	1,657.39	312,118.88	1,768,950.26	39.354782	-80.205708	56.15	10.00	8.34	8.83
7,750.00	45.07	139.90	7,426.69	487.56	1,680.11	312,093.54	1,768,972.97	39.354713	-80.205627	87.51	10.00	8.63	7.43
7,800.00	49.49	143.09	7,460.60	458.81	1,702.94	312,064.79	1,768,995.80	39.354635	-80.205545	122.15	10.00	8.83	6.38
7,850.00	53.99	145.88	7,491.56	426.85	1,725.71	312,032.83	1,769,018.58	39.354548	-80.205464	159.79	10.00	8.99	5.59
7,900.00	58.54	148.37	7,519.33	391.93	1,748.25	311,997.91	1,769,041.12	39.354452	-80.205383	200.15	10.00	9.10	4.98
7,950.00	63.13	150.63	7,543.69	354.31	1,770.39	311,960.29	1,769,063.25	39.354349	-80.205304	242.93	10.00	9.19	4.51
8,000.00	67.76	152.71	7,564.46	314.29	1,791.95	311,920.27	1,769,084.82	39.354240	-80.205226	287.80	10.00	9.26	4.16
8,050.00	72.42	154.65	7,581.49	272.16	1,812.78	311,878.14	1,769,105.64	39.354125	-80.205152	334.42	10.00	9.31	3.89
8,100.00	77.09	156.50	7,594.64	228.25	1,832.71	311,834.23	1,769,125.57	39.354005	-80.205080	382.43	10.00	9.34	3.70
8,150.00	81.77	158.28	7,603.81	182.89	1,851.59	311,788.87	1,769,144.46	39.353881	-80.205012	431.48	10.00	9.37	3.56



Company:	Diversified Production, LLC	Local Co-ordinate Reference:	Well Country 8MH
Project:	Harrison County, WV (NAD83 - GRID)	TVD Reference:	WELL @ 1160.00usft (Precision 110)
Site:	Country Pad	MD Reference:	WELL @ 1160.00usft (Precision 110)
Well:	Country 8MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #13	Database:	EDM 5000.1 Single User 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 (")	Longitude (")	Vertical Section (usft)	Dogleg Rate ("/100usft)	Build Rate ("/100usft)	Turn Rate ("/100usft)
8,200.00	86.46	160.02	7,608.93	136.42	1,869.29	311,742.40	1,769,162.15	39.353753	-80.204948	481.17	10.00	9.38	3.48
8,227.02	89.00	160.95	7,610.00	110.97	1,878.31	311,716.95	1,769,171.17	39.353684	-80.204915	508.17	10.00	9.39	3.44
8,300.00	89.00	160.95	7,611.27	42.00	1,902.12	311,647.98	1,769,194.99	39.353495	-80.204829	581.14	0.00	0.00	0.00
8,400.00	89.00	160.95	7,613.02	-52.51	1,934.76	311,553.47	1,769,227.62	39.353236	-80.204711	681.12	0.00	0.00	0.00
8,500.00	89.00	160.95	7,614.76	-147.01	1,967.39	311,458.96	1,769,260.25	39.352977	-80.204593	781.11	0.00	0.00	0.00
8,600.00	89.00	160.95	7,616.51	-241.52	2,000.03	311,364.46	1,769,292.89	39.352718	-80.204475	881.09	0.00	0.00	0.00
8,700.00	89.00	160.95	7,618.25	-336.03	2,032.66	311,269.95	1,769,325.52	39.352460	-80.204357	981.08	0.00	0.00	0.00
8,800.00	89.00	160.95	7,620.00	-430.54	2,065.29	311,175.44	1,769,358.16	39.352201	-80.204239	1,081.06	0.00	0.00	0.00
8,900.00	89.00	160.95	7,621.75	-525.05	2,097.93	311,080.93	1,769,390.79	39.351942	-80.204121	1,181.05	0.00	0.00	0.00
9,000.00	89.00	160.95	7,623.49	-619.56	2,130.56	310,986.42	1,769,423.43	39.351683	-80.204003	1,281.03	0.00	0.00	0.00
9,100.00	89.00	160.95	7,625.24	-714.07	2,163.20	310,891.91	1,769,456.06	39.351425	-80.203885	1,381.01	0.00	0.00	0.00
9,200.00	89.00	160.95	7,626.98	-808.58	2,195.83	310,797.40	1,769,488.69	39.351166	-80.203767	1,481.00	0.00	0.00	0.00
9,300.00	89.00	160.95	7,628.73	-903.09	2,228.47	310,702.89	1,769,521.33	39.350907	-80.203649	1,580.98	0.00	0.00	0.00
9,400.00	89.00	160.95	7,630.47	-997.60	2,261.10	310,608.38	1,769,553.96	39.350648	-80.203531	1,680.97	0.00	0.00	0.00
9,500.00	89.00	160.95	7,632.22	-1,092.10	2,293.73	310,513.87	1,769,586.60	39.350390	-80.203413	1,780.95	0.00	0.00	0.00
9,600.00	89.00	160.95	7,633.96	-1,186.61	2,326.37	310,419.37	1,769,619.23	39.350131	-80.203295	1,880.94	0.00	0.00	0.00
9,700.00	89.00	160.95	7,635.71	-1,281.12	2,359.00	310,324.86	1,769,651.87	39.349872	-80.203177	1,980.92	0.00	0.00	0.00
9,800.00	89.00	160.95	7,637.45	-1,375.63	2,391.64	310,230.35	1,769,684.50	39.349613	-80.203059	2,080.91	0.00	0.00	0.00
9,900.00	89.00	160.95	7,639.20	-1,470.14	2,424.27	310,135.84	1,769,717.14	39.349355	-80.202941	2,180.89	0.00	0.00	0.00
10,000.00	89.00	160.95	7,640.94	-1,564.65	2,456.91	310,041.33	1,769,749.77	39.349096	-80.202823	2,280.88	0.00	0.00	0.00
10,100.00	89.00	160.95	7,642.69	-1,659.16	2,489.54	309,946.82	1,769,782.40	39.348837	-80.202705	2,380.86	0.00	0.00	0.00
10,200.00	89.00	160.95	7,644.43	-1,753.67	2,522.18	309,852.31	1,769,815.04	39.348578	-80.202587	2,480.85	0.00	0.00	0.00
10,300.00	89.00	160.95	7,646.18	-1,848.18	2,554.81	309,757.80	1,769,847.67	39.348319	-80.202469	2,580.83	0.00	0.00	0.00
10,400.00	89.00	160.95	7,647.92	-1,942.69	2,587.44	309,663.29	1,769,880.31	39.348061	-80.202351	2,680.82	0.00	0.00	0.00
10,500.00	89.00	160.95	7,649.67	-2,037.19	2,620.08	309,568.78	1,769,912.94	39.347802	-80.202233	2,780.80	0.00	0.00	0.00
10,600.00	89.00	160.95	7,651.41	-2,131.70	2,652.71	309,474.28	1,769,945.58	39.347543	-80.202115	2,880.79	0.00	0.00	0.00
10,700.00	89.00	160.95	7,653.16	-2,226.21	2,685.35	309,379.77	1,769,978.21	39.347284	-80.201997	2,980.77	0.00	0.00	0.00
10,800.00	89.00	160.95	7,654.90	-2,320.72	2,717.98	309,285.26	1,770,010.84	39.347026	-80.201879	3,080.76	0.00	0.00	0.00
10,900.00	89.00	160.95	7,656.65	-2,415.23	2,750.62	309,190.75	1,770,043.48	39.346767	-80.201761	3,180.74	0.00	0.00	0.00
11,000.00	89.00	160.95	7,658.40	-2,509.74	2,783.25	309,096.24	1,770,076.11	39.346508	-80.201643	3,280.73	0.00	0.00	0.00
11,100.00	89.00	160.95	7,660.14	-2,604.25	2,815.88	309,001.73	1,770,108.75	39.346249	-80.201525	3,380.71	0.00	0.00	0.00
11,200.00	89.00	160.95	7,661.89	-2,698.76	2,848.52	308,907.22	1,770,141.38	39.345991	-80.201407	3,480.70	0.00	0.00	0.00
11,300.00	89.00	160.95	7,663.63	-2,793.27	2,881.15	308,812.71	1,770,174.02	39.345732	-80.201289	3,580.68	0.00	0.00	0.00
11,400.00	89.00	160.95	7,665.38	-2,887.78	2,913.79	308,718.20	1,770,206.65	39.345473	-80.201171	3,680.66	0.00	0.00	0.00
11,500.00	89.00	160.95	7,667.12	-2,982.29	2,946.42	308,623.69	1,770,239.28	39.345214	-80.201053	3,780.65	0.00	0.00	0.00
11,600.00	89.00	160.95	7,668.87	-3,076.79	2,979.06	308,529.18	1,770,271.92	39.344955	-80.200935	3,880.63	0.00	0.00	0.00
11,700.00	89.00	160.95	7,670.61	-3,171.30	3,011.69	308,434.68	1,770,304.55	39.344697	-80.200817	3,980.62	0.00	0.00	0.00
11,800.00	89.00	160.95	7,672.36	-3,265.81	3,044.32	308,340.17	1,770,337.19	39.344438	-80.200699	4,080.60	0.00	0.00	0.00



Company:	Diversified Production, LLC	Local Co-ordinate Reference:	Well Country 8MH
Project:	Harrison County, WV (NAD83 - GRID)	TVD Reference:	WELL @ 1160.00usft (Precision 110)
Site:	Country Pad	MD Reference:	WELL @ 1160.00usft (Precision 110)
Well:	Country 8MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #13	Database:	EDM 5000.1 Single User Db

Planned Survey

Measured Depth (usft)	INC (")	AZI (")	Vertical Depth (usft)	Local Coordinates (usft)		Map Coordinates (usft)		Geo Coordinates (")		Vertical Section Rate ("/100usft)	Dogleg Rate ("/100usft)	Build Rate ("/100usft)	Turn Rate ("/100usft)
				+N/-S	+E/-W	Northing	Easting	Latitude	Longitude				
11,900.00	89.00	160.95	7,674.10	-3,360.32	3,076.96	308,245.66	1,770,369.82	39.344179	-80.200581	4,180.59	0.00	0.00	0.00
12,000.00	89.00	160.95	7,675.85	-3,454.83	3,109.59	308,151.15	1,770,402.46	39.343920	-80.200463	4,280.57	0.00	0.00	0.00
12,100.00	89.00	160.95	7,677.59	-3,549.34	3,142.23	308,056.64	1,770,435.09	39.343662	-80.200345	4,380.56	0.00	0.00	0.00
12,200.00	89.00	160.95	7,679.34	-3,643.85	3,174.86	307,962.13	1,770,467.73	39.343403	-80.200227	4,480.54	0.00	0.00	0.00
12,300.00	89.00	160.95	7,681.08	-3,738.36	3,207.50	307,867.62	1,770,500.36	39.343144	-80.200109	4,580.53	0.00	0.00	0.00
12,400.00	89.00	160.95	7,682.83	-3,832.87	3,240.13	307,773.11	1,770,532.99	39.342885	-80.199991	4,680.51	0.00	0.00	0.00
12,500.00	89.00	160.95	7,684.57	-3,927.38	3,272.77	307,678.60	1,770,565.63	39.342626	-80.199873	4,780.50	0.00	0.00	0.00
12,600.00	89.00	160.95	7,686.32	-4,021.88	3,305.40	307,584.09	1,770,598.26	39.342368	-80.199755	4,880.48	0.00	0.00	0.00
12,700.00	89.00	160.95	7,688.06	-4,116.39	3,338.03	307,489.59	1,770,630.90	39.342109	-80.199637	4,980.47	0.00	0.00	0.00
12,800.00	89.00	160.95	7,689.81	-4,210.90	3,370.67	307,395.08	1,770,663.53	39.341850	-80.199519	5,080.45	0.00	0.00	0.00
12,900.00	89.00	160.95	7,691.55	-4,305.41	3,403.30	307,300.57	1,770,696.17	39.341591	-80.199401	5,180.44	0.00	0.00	0.00
13,000.00	89.00	160.95	7,693.30	-4,399.92	3,435.94	307,206.06	1,770,728.80	39.341333	-80.199283	5,280.42	0.00	0.00	0.00
13,100.00	89.00	160.95	7,695.05	-4,494.43	3,468.57	307,111.55	1,770,761.43	39.341074	-80.199165	5,380.41	0.00	0.00	0.00
13,200.00	89.00	160.95	7,696.79	-4,588.94	3,501.21	307,017.04	1,770,794.07	39.340815	-80.199047	5,480.39	0.00	0.00	0.00
13,300.00	89.00	160.95	7,698.54	-4,683.45	3,533.84	306,922.53	1,770,826.70	39.340556	-80.198929	5,580.38	0.00	0.00	0.00
13,400.00	89.00	160.95	7,700.28	-4,777.96	3,566.47	306,828.02	1,770,859.34	39.340298	-80.198811	5,680.36	0.00	0.00	0.00
13,500.00	89.00	160.95	7,702.03	-4,872.47	3,599.11	306,733.51	1,770,891.97	39.340039	-80.198693	5,780.34	0.00	0.00	0.00
13,600.00	89.00	160.95	7,703.77	-4,966.97	3,631.74	306,639.00	1,770,924.61	39.339780	-80.198575	5,880.33	0.00	0.00	0.00
13,700.00	89.00	160.95	7,705.52	-5,061.48	3,664.38	306,544.50	1,770,957.24	39.339521	-80.198457	5,980.31	0.00	0.00	0.00
13,800.00	89.00	160.95	7,707.26	-5,155.99	3,697.01	306,449.99	1,770,989.87	39.339262	-80.198339	6,080.30	0.00	0.00	0.00
13,900.00	89.00	160.95	7,709.01	-5,250.50	3,729.65	306,355.48	1,771,022.51	39.339004	-80.198221	6,180.28	0.00	0.00	0.00
14,000.00	89.00	160.95	7,710.75	-5,345.01	3,762.28	306,260.97	1,771,055.14	39.338745	-80.198103	6,280.27	0.00	0.00	0.00
14,100.00	89.00	160.95	7,712.50	-5,439.52	3,794.91	306,166.46	1,771,087.78	39.338486	-80.197985	6,380.25	0.00	0.00	0.00
14,200.00	89.00	160.95	7,714.24	-5,534.03	3,827.55	306,071.95	1,771,120.41	39.338227	-80.197867	6,480.24	0.00	0.00	0.00
14,300.00	89.00	160.95	7,715.99	-5,628.54	3,860.18	305,977.44	1,771,153.05	39.337969	-80.197749	6,580.22	0.00	0.00	0.00
14,400.00	89.00	160.95	7,717.73	-5,723.05	3,892.82	305,882.93	1,771,185.68	39.337710	-80.197631	6,680.21	0.00	0.00	0.00
14,500.00	89.00	160.95	7,719.48	-5,817.56	3,925.45	305,788.42	1,771,218.32	39.337451	-80.197513	6,780.19	0.00	0.00	0.00
14,600.00	89.00	160.95	7,721.22	-5,912.06	3,958.09	305,693.91	1,771,250.95	39.337192	-80.197395	6,880.18	0.00	0.00	0.00
14,700.00	89.00	160.95	7,722.97	-6,006.57	3,990.72	305,599.41	1,771,283.58	39.336933	-80.197277	6,980.16	0.00	0.00	0.00
14,800.00	89.00	160.95	7,724.71	-6,101.08	4,023.36	305,504.90	1,771,316.22	39.336675	-80.197159	7,080.15	0.00	0.00	0.00
14,900.00	89.00	160.95	7,726.46	-6,195.59	4,055.99	305,410.39	1,771,348.85	39.336416	-80.197041	7,180.13	0.00	0.00	0.00
15,000.00	89.00	160.95	7,728.20	-6,290.10	4,088.62	305,315.88	1,771,381.49	39.336157	-80.196923	7,280.12	0.00	0.00	0.00
15,100.00	89.00	160.95	7,729.95	-6,384.61	4,121.26	305,221.37	1,771,414.12	39.335898	-80.196805	7,380.10	0.00	0.00	0.00
15,200.00	89.00	160.95	7,731.70	-6,479.12	4,153.89	305,126.86	1,771,446.76	39.335640	-80.196687	7,480.09	0.00	0.00	0.00
15,300.00	89.00	160.95	7,733.44	-6,573.63	4,186.53	305,032.35	1,771,479.39	39.335381	-80.196569	7,580.07	0.00	0.00	0.00
15,400.00	89.00	160.95	7,735.19	-6,668.14	4,219.16	304,937.84	1,771,512.02	39.335122	-80.196452	7,680.06	0.00	0.00	0.00
15,500.00	89.00	160.95	7,736.93	-6,762.65	4,251.80	304,843.33	1,771,544.66	39.334863	-80.196334	7,780.04	0.00	0.00	0.00

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 SET 9 7 2023
 Diversified Production



Company:	Diversified Production, LLC	Local Co-ordinate Reference:	Well Country 8MH
Project:	Harrison County, WV (NAD83 - GRID)	TVD Reference:	WELL @ 1160.00usft (Precision 110)
Site:	Country Pad	MD Reference:	WELL @ 1160.00usft (Precision 110)
Well:	Country 8MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
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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 (")				
15,600.00	89.00	160.95	7,738.68	-6,857.15	4,284.43	304,748.82	1,771,577.29	39.334604	-80.196216	7,880.03	0.00	0.00	0.00
15,700.00	89.00	160.95	7,740.42	-6,951.66	4,317.06	304,654.32	1,771,609.93	39.334346	-80.196098	7,980.01	0.00	0.00	0.00
15,800.00	89.00	160.95	7,742.17	-7,046.17	4,349.70	304,559.81	1,771,642.56	39.334087	-80.195980	8,079.99	0.00	0.00	0.00
15,900.00	89.00	160.95	7,743.91	-7,140.68	4,382.33	304,465.30	1,771,675.20	39.333828	-80.195862	8,179.98	0.00	0.00	0.00
16,000.00	89.00	160.95	7,745.66	-7,235.19	4,414.97	304,370.79	1,771,707.83	39.333569	-80.195744	8,279.96	0.00	0.00	0.00
16,100.00	89.00	160.95	7,747.40	-7,329.70	4,447.60	304,276.28	1,771,740.46	39.333311	-80.195626	8,379.95	0.00	0.00	0.00
16,200.00	89.00	160.95	7,749.15	-7,424.21	4,480.24	304,181.77	1,771,773.10	39.333052	-80.195508	8,479.93	0.00	0.00	0.00
16,300.00	89.00	160.95	7,750.89	-7,518.72	4,512.87	304,087.26	1,771,805.73	39.332793	-80.195390	8,579.92	0.00	0.00	0.00
16,400.00	89.00	160.95	7,752.64	-7,613.23	4,545.50	303,992.75	1,771,838.37	39.332534	-80.195272	8,679.90	0.00	0.00	0.00
16,500.00	89.00	160.95	7,754.38	-7,707.74	4,578.14	303,898.24	1,771,871.00	39.332276	-80.195154	8,779.89	0.00	0.00	0.00
16,600.00	89.00	160.95	7,756.13	-7,802.24	4,610.77	303,803.73	1,771,903.64	39.332017	-80.195036	8,879.87	0.00	0.00	0.00
16,700.00	89.00	160.95	7,757.87	-7,896.75	4,643.41	303,709.23	1,771,936.27	39.331758	-80.194918	8,979.86	0.00	0.00	0.00
16,800.00	89.00	160.95	7,759.62	-7,991.26	4,676.04	303,614.72	1,771,968.90	39.331499	-80.194800	9,079.84	0.00	0.00	0.00
16,900.00	89.00	160.95	7,761.36	-8,085.77	4,708.68	303,520.21	1,772,001.54	39.331240	-80.194682	9,179.83	0.00	0.00	0.00
17,000.00	89.00	160.95	7,763.11	-8,180.28	4,741.31	303,425.70	1,772,034.17	39.330982	-80.194564	9,279.81	0.00	0.00	0.00
17,100.00	89.00	160.95	7,764.85	-8,274.79	4,773.95	303,331.19	1,772,066.81	39.330723	-80.194446	9,379.80	0.00	0.00	0.00
17,200.00	89.00	160.95	7,766.60	-8,369.30	4,806.58	303,236.68	1,772,099.44	39.330464	-80.194328	9,479.78	0.00	0.00	0.00
17,300.00	89.00	160.95	7,768.35	-8,463.81	4,839.21	303,142.17	1,772,132.08	39.330205	-80.194210	9,579.77	0.00	0.00	0.00
17,400.00	89.00	160.95	7,770.09	-8,558.32	4,871.85	303,047.66	1,772,164.71	39.329947	-80.194092	9,679.75	0.00	0.00	0.00
17,500.00	89.00	160.95	7,771.84	-8,652.83	4,904.48	302,953.15	1,772,197.35	39.329688	-80.193974	9,779.74	0.00	0.00	0.00
17,600.00	89.00	160.95	7,773.58	-8,747.34	4,937.12	302,858.64	1,772,229.98	39.329429	-80.193857	9,879.72	0.00	0.00	0.00
17,700.00	89.00	160.95	7,775.33	-8,841.84	4,969.75	302,764.14	1,772,262.61	39.329170	-80.193739	9,979.71	0.00	0.00	0.00
17,800.00	89.00	160.95	7,777.07	-8,936.35	5,002.39	302,669.63	1,772,295.25	39.328911	-80.193621	10,079.69	0.00	0.00	0.00
17,900.00	89.00	160.95	7,778.82	-9,030.86	5,035.02	302,575.12	1,772,327.88	39.328653	-80.193503	10,179.67	0.00	0.00	0.00
18,000.00	89.00	160.95	7,780.56	-9,125.37	5,067.65	302,480.61	1,772,360.52	39.328394	-80.193385	10,279.66	0.00	0.00	0.00
18,100.00	89.00	160.95	7,782.31	-9,219.88	5,100.29	302,386.10	1,772,393.15	39.328135	-80.193267	10,379.64	0.00	0.00	0.00
18,200.00	89.00	160.95	7,784.05	-9,314.39	5,132.92	302,291.59	1,772,425.79	39.327876	-80.193149	10,479.63	0.00	0.00	0.00
18,251.02	89.00	160.95	7,784.94	-9,362.61	5,149.57	302,243.37	1,772,442.44	39.327744	-80.193089	10,530.65	0.00	0.00	0.00
18,300.00	89.00	161.93	7,785.80	-9,409.03	5,165.16	302,196.95	1,772,458.02	39.327617	-80.193032	10,579.61	2.00	0.00	2.00
18,400.00	89.00	163.93	7,787.55	-9,504.61	5,194.51	302,101.37	1,772,487.37	39.327355	-80.192926	10,679.53	2.00	0.00	2.00
18,500.00	89.00	165.93	7,789.29	-9,601.15	5,220.50	302,004.83	1,772,513.37	39.327091	-80.192831	10,779.27	2.00	0.00	2.00
18,553.48	89.00	167.00	7,790.23	-9,653.13	5,233.02	301,952.85	1,772,525.88	39.326948	-80.192786	10,832.49	2.00	0.00	2.00
18,600.00	89.00	167.00	7,791.04	-9,698.46	5,243.48	301,907.52	1,772,536.34	39.326824	-80.192748	10,878.75	0.00	0.00	0.00
18,700.00	89.00	167.00	7,792.78	-9,795.88	5,265.97	301,810.10	1,772,558.84	39.326557	-80.192665	10,978.18	0.00	0.00	0.00
18,800.00	89.00	167.00	7,794.53	-9,893.30	5,288.46	301,712.68	1,772,581.33	39.326290	-80.192583	11,077.60	0.00	0.00	0.00
18,900.00	89.00	167.00	7,796.27	-9,990.72	5,310.96	301,615.26	1,772,603.82	39.326023	-80.192501	11,177.03	0.00	0.00	0.00
19,000.00	89.00	167.00	7,798.02	-10,088.14	5,333.45	301,517.83	1,772,626.31	39.325756	-80.192419	11,276.46	0.00	0.00	0.00
19,100.00	89.00	167.00	7,799.76	-10,185.57	5,355.94	301,420.41	1,772,648.80	39.325489	-80.192337	11,375.89	0.00	0.00	0.00



Company:	Diversified Production, LLC	Local Co-ordinate Reference:	Well Country 8MH
Project:	Harrison County, WV (NAD83 - GRID)	TVD Reference:	WELL @ 1160.00usft (Precision 110)
Site:	Country Pad	MD Reference:	WELL @ 1160.00usft (Precision 110)
Well:	Country 8MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #13	Database:	EDM 5000.1 Single User 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 (")	Longitude (")	Vertical Section (usft)	Dogleg Rate ("/100usft)	Build Rate ("/100usft)	Turn Rate ("/100usft)
19,200.00	89.00	167.00	7,801.51-10,282.99	5,378.43		301,322.99	1,772,671.29	39.325222	-80.192255	11,475.31	0.00	0.00	0.00
19,300.00	89.00	167.00	7,803.26-10,380.41	5,400.92		301,225.57	1,772,693.79	39.324955	-80.192172	11,574.74	0.00	0.00	0.00
19,353.48	89.00	167.00	7,804.19-10,432.51	5,412.95		301,173.47	1,772,705.81	39.324812	-80.192129	11,627.91	0.00	0.00	0.00
19,400.00	89.00	166.07	7,805.00-10,477.75	5,423.78		301,128.23	1,772,716.64	39.324688	-80.192089	11,674.21	2.00	0.00	-2.00
19,500.00	88.99	164.08	7,806.75-10,574.35	5,449.53		301,031.63	1,772,742.40	39.324424	-80.191995	11,773.93	2.00	0.00	-2.00
19,600.00	88.99	162.08	7,808.51-10,670.00	5,478.63		300,935.98	1,772,771.50	39.324162	-80.191890	11,873.84	2.00	0.00	-2.00
19,700.00	88.99	160.09	7,810.28-10,764.58	5,511.05		300,841.40	1,772,803.91	39.323903	-80.191773	11,973.82	2.00	0.00	-2.00
19,800.00	88.99	158.09	7,812.04-10,857.98	5,546.73		300,748.00	1,772,839.60	39.323647	-80.191644	12,073.75	2.00	0.00	-2.00
19,900.00	88.99	156.09	7,813.80-10,950.07	5,585.65		300,655.91	1,772,878.51	39.323395	-80.191504	12,173.50	2.00	0.00	-2.00
20,000.00	88.99	154.10	7,815.56-11,040.75	5,627.75		300,565.23	1,772,920.61	39.323147	-80.191353	12,272.96	2.00	0.00	-2.00
20,100.00	89.00	152.10	7,817.32-11,129.92	5,672.98		300,476.06	1,772,965.85	39.322903	-80.191190	12,372.00	2.00	0.00	-2.00
20,200.00	89.00	150.11	7,819.07-11,217.45	5,721.29		300,388.53	1,773,014.16	39.322664	-80.191017	12,470.51	2.00	0.00	-2.00
20,235.63	89.00	149.40	7,819.69-11,248.22	5,739.24		300,357.76	1,773,032.10	39.322580	-80.190953	12,505.45	2.00	0.01	-2.00
20,300.00	89.00	150.68	7,820.81-11,303.98	5,771.38		300,302.00	1,773,064.24	39.322427	-80.190838	12,568.65	2.00	0.00	2.00
20,400.00	89.00	152.68	7,822.56-11,391.99	5,818.81		300,213.98	1,773,111.67	39.322187	-80.190668	12,667.32	2.00	0.00	2.00
20,500.00	89.00	154.67	7,824.31-11,481.61	5,863.15		300,124.37	1,773,156.01	39.321942	-80.190509	12,766.50	2.00	0.00	2.00
20,600.00	89.00	156.67	7,826.06-11,572.71	5,904.34		300,033.27	1,773,197.20	39.321692	-80.190361	12,866.05	2.00	0.00	2.00
20,700.00	89.00	158.66	7,827.82-11,665.18	5,942.33		299,940.79	1,773,235.20	39.321439	-80.190224	12,965.87	2.00	0.00	2.00
20,800.00	89.00	160.66	7,829.56-11,758.93	5,977.08		299,847.05	1,773,269.95	39.321183	-80.190098	13,065.82	2.00	0.00	2.00
20,814.60	89.00	160.95	7,829.82-11,772.71	5,981.88		299,833.27	1,773,274.74	39.321145	-80.190081	13,080.41	2.00	0.00	2.00
20,900.00	89.00	160.95	7,831.31-11,853.43	6,009.75		299,752.55	1,773,302.62	39.320924	-80.189980	13,165.81	0.00	0.00	0.00
21,000.00	89.00	160.95	7,833.05-11,947.94	6,042.39		299,658.04	1,773,335.25	39.320665	-80.189862	13,265.79	0.00	0.00	0.00
21,100.00	89.00	160.95	7,834.80-12,042.45	6,075.02		299,563.53	1,773,367.88	39.320406	-80.189745	13,365.78	0.00	0.00	0.00
21,200.00	89.00	160.95	7,836.54-12,136.95	6,107.66		299,469.02	1,773,400.52	39.320148	-80.189627	13,465.76	0.00	0.00	0.00
21,300.00	89.00	160.95	7,838.29-12,231.46	6,140.29		299,374.52	1,773,433.15	39.319889	-80.189509	13,565.75	0.00	0.00	0.00
21,400.00	89.00	160.95	7,840.03-12,325.97	6,172.92		299,280.01	1,773,465.79	39.319630	-80.189391	13,665.73	0.00	0.00	0.00
21,500.00	89.00	160.95	7,841.78-12,420.48	6,205.56		299,185.50	1,773,498.42	39.319371	-80.189273	13,765.71	0.00	0.00	0.00
21,600.00	89.00	160.95	7,843.53-12,514.99	6,238.19		299,090.99	1,773,531.06	39.319113	-80.189155	13,865.70	0.00	0.00	0.00
21,700.00	89.00	160.95	7,845.27-12,609.50	6,270.83		298,996.48	1,773,563.69	39.318854	-80.189037	13,965.68	0.00	0.00	0.00
21,800.00	89.00	160.95	7,847.02-12,704.01	6,303.46		298,901.97	1,773,596.32	39.318595	-80.188919	14,065.67	0.00	0.00	0.00
21,900.00	89.00	160.95	7,848.76-12,798.52	6,336.10		298,807.46	1,773,628.96	39.318336	-80.188801	14,165.65	0.00	0.00	0.00
22,000.00	89.00	160.95	7,850.51-12,893.03	6,368.73		298,712.95	1,773,661.59	39.318077	-80.188683	14,265.64	0.00	0.00	0.00
22,100.00	89.00	160.95	7,852.25-12,987.54	6,401.36		298,618.44	1,773,694.23	39.317819	-80.188565	14,365.62	0.00	0.00	0.00
22,200.00	89.00	160.95	7,854.00-13,082.05	6,434.00		298,523.93	1,773,726.86	39.317560	-80.188448	14,465.61	0.00	0.00	0.00
22,300.00	89.00	160.95	7,855.74-13,176.55	6,466.63		298,429.43	1,773,759.50	39.317301	-80.188330	14,565.59	0.00	0.00	0.00
22,400.00	89.00	160.95	7,857.49-13,271.06	6,499.27		298,334.92	1,773,792.13	39.317042	-80.188212	14,665.58	0.00	0.00	0.00
22,500.00	89.00	160.95	7,859.23-13,365.57	6,531.90		298,240.41	1,773,824.77	39.316783	-80.188094	14,765.56	0.00	0.00	0.00

4703306028



Company:	Diversified Production, LLC	Local Co-ordinate Reference:	Well Country 8MH
Project:	Harrison County, WV (NAD83 - GRID)	TVD Reference:	WELL @ 1160.00usft (Precision 110)
Site:	Country Pad	MD Reference:	WELL @ 1160.00usft (Precision 110)
Well:	Country 8MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #13	Database:	EDM 5000.1 Single User 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 (")				
22,600.00	89.00	160.95	7,860.98	-13,460.08	6,564.54	298,145.90	1,773,857.40	39.316525	-80.187976	14,865.55	0.00	0.00	0.00
22,700.00	89.00	160.95	7,862.72	-13,554.59	6,597.17	298,051.39	1,773,890.03	39.316266	-80.187858	14,965.53	0.00	0.00	0.00
22,800.00	89.00	160.95	7,864.47	-13,649.10	6,629.81	297,956.88	1,773,922.67	39.316007	-80.187740	15,065.52	0.00	0.00	0.00
22,900.00	89.00	160.95	7,866.21	-13,743.61	6,662.44	297,862.37	1,773,955.30	39.315748	-80.187622	15,165.50	0.00	0.00	0.00
23,000.00	89.00	160.95	7,867.96	-13,838.12	6,695.07	297,767.86	1,773,987.94	39.315490	-80.187504	15,265.49	0.00	0.00	0.00
23,100.00	89.00	160.95	7,869.70	-13,932.63	6,727.71	297,673.35	1,774,020.57	39.315231	-80.187386	15,365.47	0.00	0.00	0.00
23,200.00	89.00	160.95	7,871.45	-14,027.14	6,760.34	297,578.84	1,774,053.21	39.314972	-80.187268	15,465.46	0.00	0.00	0.00
23,300.00	89.00	160.95	7,873.19	-14,121.64	6,792.98	297,484.34	1,774,085.84	39.314713	-80.187151	15,565.44	0.00	0.00	0.00
23,400.00	89.00	160.95	7,874.94	-14,216.15	6,825.61	297,389.83	1,774,118.47	39.314454	-80.187033	15,665.43	0.00	0.00	0.00
23,500.00	89.00	160.95	7,876.68	-14,310.66	6,858.25	297,295.32	1,774,151.11	39.314196	-80.186915	15,765.41	0.00	0.00	0.00
23,600.00	89.00	160.95	7,878.43	-14,405.17	6,890.88	297,200.81	1,774,183.74	39.313937	-80.186797	15,865.40	0.00	0.00	0.00
23,700.00	89.00	160.95	7,880.18	-14,499.68	6,923.51	297,106.30	1,774,216.38	39.313678	-80.186679	15,965.38	0.00	0.00	0.00
23,800.00	89.00	160.95	7,881.92	-14,594.19	6,956.15	297,011.79	1,774,249.01	39.313419	-80.186561	16,065.36	0.00	0.00	0.00
23,900.00	89.00	160.95	7,883.67	-14,688.70	6,988.78	296,917.28	1,774,281.65	39.313160	-80.186443	16,165.35	0.00	0.00	0.00
24,000.00	89.00	160.95	7,885.41	-14,783.21	7,021.42	296,822.77	1,774,314.28	39.312902	-80.186325	16,265.33	0.00	0.00	0.00
24,100.00	89.00	160.95	7,887.16	-14,877.72	7,054.05	296,728.26	1,774,346.91	39.312643	-80.186207	16,365.32	0.00	0.00	0.00
24,200.00	89.00	160.95	7,888.90	-14,972.23	7,086.69	296,633.75	1,774,379.55	39.312384	-80.186090	16,465.30	0.00	0.00	0.00
24,300.00	89.00	160.95	7,890.65	-15,066.73	7,119.32	296,539.24	1,774,412.18	39.312125	-80.185972	16,565.29	0.00	0.00	0.00
24,400.00	89.00	160.95	7,892.39	-15,161.24	7,151.95	296,444.74	1,774,444.82	39.311867	-80.185854	16,665.27	0.00	0.00	0.00
24,500.00	89.00	160.95	7,894.14	-15,255.75	7,184.59	296,350.23	1,774,477.45	39.311608	-80.185736	16,765.26	0.00	0.00	0.00
24,600.00	89.00	160.95	7,895.88	-15,350.26	7,217.22	296,255.72	1,774,510.09	39.311349	-80.185618	16,865.24	0.00	0.00	0.00
24,700.00	89.00	160.95	7,897.63	-15,444.77	7,249.86	296,161.21	1,774,542.72	39.311090	-80.185500	16,965.23	0.00	0.00	0.00
24,800.00	89.00	160.95	7,899.37	-15,539.28	7,282.49	296,066.70	1,774,575.35	39.310831	-80.185382	17,065.21	0.00	0.00	0.00
24,900.00	89.00	160.95	7,901.12	-15,633.79	7,315.13	295,972.19	1,774,607.99	39.310573	-80.185264	17,165.20	0.00	0.00	0.00
25,000.00	89.00	160.95	7,902.86	-15,728.30	7,347.76	295,877.68	1,774,640.62	39.310314	-80.185147	17,265.18	0.00	0.00	0.00
25,100.00	89.00	160.95	7,904.61	-15,822.81	7,380.40	295,783.17	1,774,673.26	39.310055	-80.185029	17,365.17	0.00	0.00	0.00
25,200.00	89.00	160.95	7,906.35	-15,917.32	7,413.03	295,688.66	1,774,705.89	39.309796	-80.184911	17,465.15	0.00	0.00	0.00
25,300.00	89.00	160.95	7,908.10	-16,011.82	7,445.66	295,594.15	1,774,738.53	39.309537	-80.184793	17,565.14	0.00	0.00	0.00
25,400.00	89.00	160.95	7,909.84	-16,106.33	7,478.30	295,499.65	1,774,771.16	39.309279	-80.184675	17,665.12	0.00	0.00	0.00
25,500.00	89.00	160.95	7,911.59	-16,200.84	7,510.93	295,405.14	1,774,803.80	39.309020	-80.184557	17,765.11	0.00	0.00	0.00
25,600.00	89.00	160.95	7,913.33	-16,295.35	7,543.57	295,310.63	1,774,836.43	39.308761	-80.184439	17,865.09	0.00	0.00	0.00
25,700.00	89.00	160.95	7,915.08	-16,389.86	7,576.20	295,216.12	1,774,869.06	39.308502	-80.184321	17,965.08	0.00	0.00	0.00
25,800.00	89.00	160.95	7,916.83	-16,484.37	7,608.84	295,121.61	1,774,901.70	39.308243	-80.184203	18,065.06	0.00	0.00	0.00
25,900.00	89.00	160.95	7,918.57	-16,578.88	7,641.47	295,027.10	1,774,934.33	39.307985	-80.184086	18,165.04	0.00	0.00	0.00
26,000.00	89.00	160.95	7,920.32	-16,673.39	7,674.10	294,932.59	1,774,966.97	39.307726	-80.183968	18,265.03	0.00	0.00	0.00
26,100.00	89.00	160.95	7,922.06	-16,767.90	7,706.74	294,838.08	1,774,999.60	39.307467	-80.183850	18,365.01	0.00	0.00	0.00
26,200.00	89.00	160.95	7,923.81	-16,862.41	7,739.37	294,743.57	1,775,032.24	39.307208	-80.183732	18,465.00	0.00	0.00	0.00
26,300.00	89.00	160.95	7,925.55	-16,956.91	7,772.01	294,649.06	1,775,064.87	39.306950	-80.183614	18,564.98	0.00	0.00	0.00



Planned Survey Report



Company:	Diversified Production, LLC	Local Co-ordinate Reference:	Well Country 8MH
Project:	Harrison County, WV (NAD83 - GRID)	TVD Reference:	WELL @ 1160.00usft (Precision 110)
Site:	Country Pad	MD Reference:	WELL @ 1160.00usft (Precision 110)
Well:	Country 8MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #13	Database:	EDM 5000.1 Single User Db

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical		Local Coordinates		Map Coordinates		Geo Coordinates		Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
			Depth (usft)		+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude (°)	Longitude (°)				
26,400.00	89.00	160.95	7,927.30	-17,051.42	7,804.64	294,554.56	1,775,097.50	39.306691	-80.183496	18,664.97	0.00	0.00	0.00	
26,500.00	89.00	160.95	7,929.04	-17,145.93	7,837.28	294,460.05	1,775,130.14	39.306432	-80.183378	18,764.95	0.00	0.00	0.00	
26,600.00	89.00	160.95	7,930.79	-17,240.44	7,869.91	294,365.54	1,775,162.77	39.306173	-80.183261	18,864.94	0.00	0.00	0.00	
26,624.12	89.00	160.95	7,931.16	-17,263.24	7,877.78	294,342.74	1,775,170.64	39.306111	-80.183232	18,889.06	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 v10 - Country 8MH - plan hits target center - Point	0.00	360.00	7,610.00	110.97	1,878.31	311,716.95	1,769,171.17	39.353684	-80.204915
AP v8 - Country 8MH - plan misses target center by 206.07usft at 20810.10usft MD (7829.74 TVD, -11768.47 N, 5980.41 E) - Point	0.00	360.00	7,623.70	-11,771.87	5,981.59	299,834.11	1,773,274.45	39.321147	-80.190082
PBHL v13 - Country 8 - plan hits target center - Point	0.00	0.00	7,931.16	-17,263.24	7,877.78	294,342.74	1,775,170.64	39.306111	-80.183232

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
1350	1350	0	0	KOP; Begin 1.50° Build
1883	1882	-5	37	Hold 8.00° Inc
2861	2850	-21	172	Begin 2.00° Build/Turn
3566	3533	25	332	Hold 20.23° Tangent
7315	7051	578	1504	Begin 10.00° Build/Turn
8227	7610	111	1878	Hold 89.00° Lateral
18,251	7785	-9363	5150	Begin 2.00° Turn
18,553	7790	-9653	5233	Hold 167.00° Az
19,353	7804	-10,433	5413	Begin 2.00° Turn
20,236	7820	-11,248	5739	Continue 2.00° Turn
20,815	7830	-11,773	5982	Hold 160.95° Az
26,624	7931	-17,263	7878	PBHL - 26624.12' MD

Checked By: _____ Approved By: _____ Date: _____

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WW-9
(4-16)

API Number 47-033
Operator's Well No. _____

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) Thomas Fork of Booth's Creek Quadrangle Rosemont

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: _____

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? Waste Management SWF 1032, Weizel County Landfill SWF 1021, Apex Environmental 96-05438

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

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DEC 27 2023
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Subscribed and sworn before me this 19th day of December, 2023

Andrea Stahl Hays

Notary Public

My commission expires Oct 10, 2027



02/16/2024

Diversified Production, LLC

Proposed Revegetation Treatment: Acres Disturbed 16.24 acres Prevegetation pH 7

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

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch 2 Tons/acre Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type	lbs/acre
30% Annual Ryegrass, 20% Pennate Orchard	
10% Alsike Clover, 10% Trefoil Norcen Empire	
15% Climax Timothy N.C., 15% Perennial Ryegrass	

Seed Type	lbs/acre
30% Annual Ryegrass, 20% Pennate Orchard	
10% Alsike Clover, 10% Trefoil Norcen Empire	
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 Welles

Comments: _____

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Environmental Protection

Title: Oil and Gas Inspector Date: 12/2/23

Field Reviewed? () Yes () No

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



Diversified
Production LLC

WELL SITE SAFETY PLAN

Well Name: Country South 8MH
Pad Name: Country

County: Harrison
District: Clay - Outside
UTM (meters), NAD83, Zone 17
Northing: 4,356,284.492
Easting: 567,932.457

K. Willets
12/18/23

December 2023

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02/16/2024

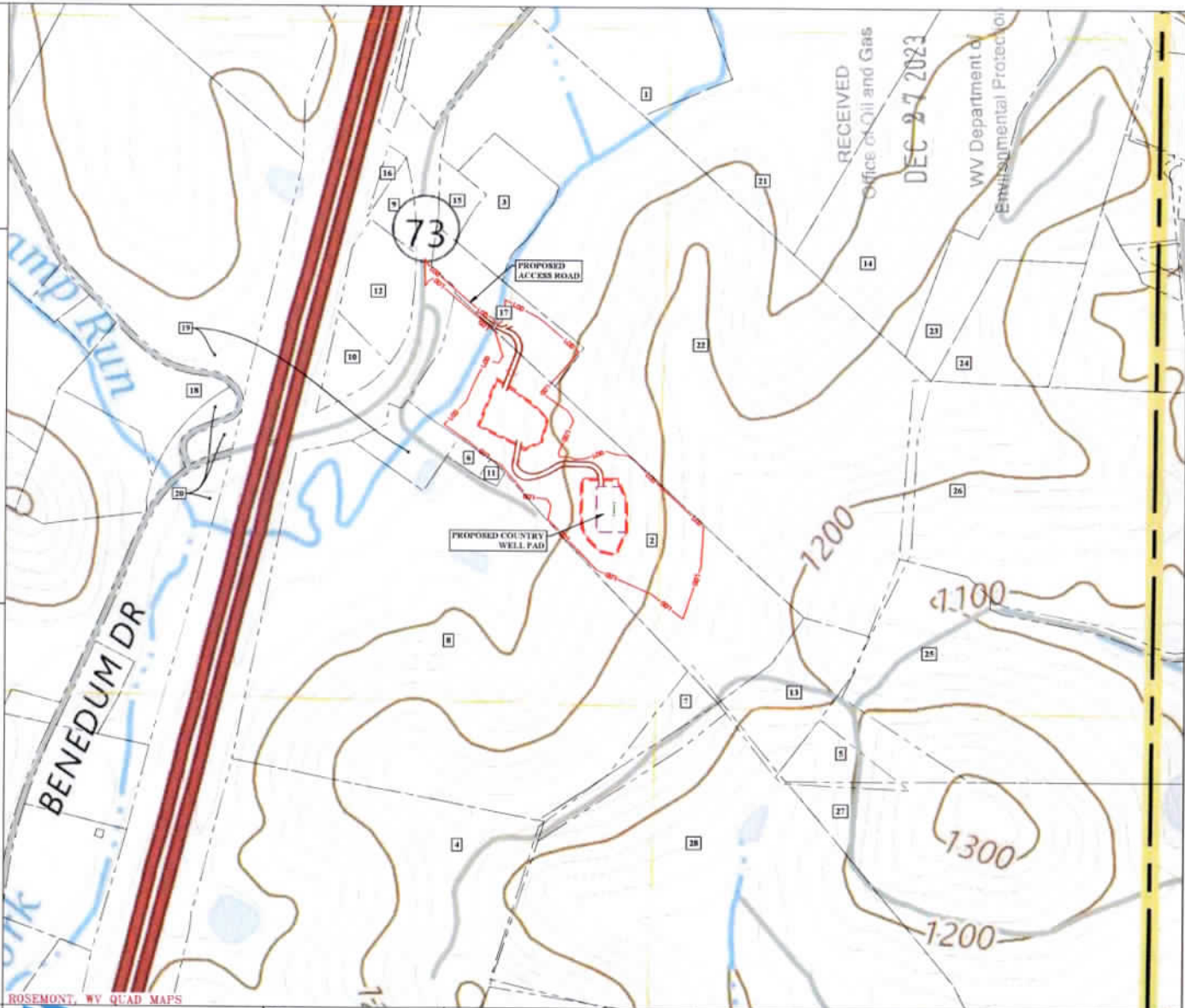
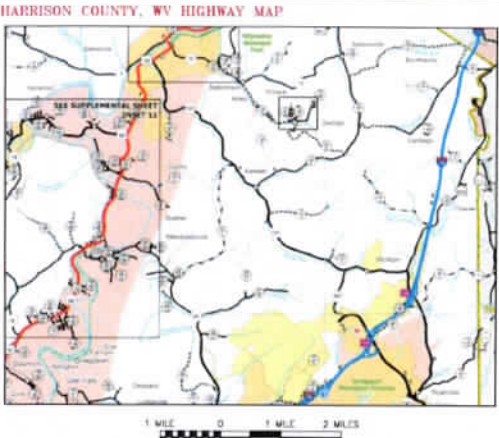
4703306028

PLAN LEGEND

- EXISTING CONTOUR
- PROPERTY LINE
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED ROAD EDGE
- PROPOSED PAD AC TLIVE
- PROPOSED WELL PAD PERIMETER BERM
- LOWEST 8 FEET FROM WELL PAD
- AREAS WITHIN LIMITS WILL BE SAMPLED

PREVAILING WIND DIRECTION

PLAT #	OWNER	ADDRESS (SHEPHERD, HARRISON, WVA)	PARTIAL #
1	WILSON/JOHN & MARGARET TRUST	100 W. W. SHEPHERD, WVA 26401	17-03-03-0001-0001
2	MULLIGAN/JOHN	100 W. W. SHEPHERD, WVA 26401	17-03-03-0001-0002
3	WILSON/JOHN & MARGARET TRUST	100 W. W. SHEPHERD, WVA 26401	17-03-03-0001-0003
4	WILSON/JOHN & MARGARET TRUST	100 W. W. SHEPHERD, WVA 26401	17-03-03-0001-0004
5	WILSON/JOHN & MARGARET TRUST	100 W. W. SHEPHERD, WVA 26401	17-03-03-0001-0005
6	WILSON/JOHN & MARGARET TRUST	100 W. W. SHEPHERD, WVA 26401	17-03-03-0001-0006
7	WILSON/JOHN & MARGARET TRUST	100 W. W. SHEPHERD, WVA 26401	17-03-03-0001-0007
8	WILSON/JOHN & MARGARET TRUST	100 W. W. SHEPHERD, WVA 26401	17-03-03-0001-0008
9	WILSON/JOHN & MARGARET TRUST	100 W. W. SHEPHERD, WVA 26401	17-03-03-0001-0009
10	WILSON/JOHN & MARGARET TRUST	100 W. W. SHEPHERD, WVA 26401	17-03-03-0001-0010
11	WILSON/JOHN & MARGARET TRUST	100 W. W. SHEPHERD, WVA 26401	17-03-03-0001-0011
12	WILSON/JOHN & MARGARET TRUST	100 W. W. SHEPHERD, WVA 26401	17-03-03-0001-0012
13	WILSON/JOHN & MARGARET TRUST	100 W. W. SHEPHERD, WVA 26401	17-03-03-0001-0013
14	WILSON/JOHN & MARGARET TRUST	100 W. W. SHEPHERD, WVA 26401	17-03-03-0001-0014
15	WILSON/JOHN & MARGARET TRUST	100 W. W. SHEPHERD, WVA 26401	17-03-03-0001-0015
16	WILSON/JOHN & MARGARET TRUST	100 W. W. SHEPHERD, WVA 26401	17-03-03-0001-0016
17	WILSON/JOHN & MARGARET TRUST	100 W. W. SHEPHERD, WVA 26401	17-03-03-0001-0017
18	WILSON/JOHN & MARGARET TRUST	100 W. W. SHEPHERD, WVA 26401	17-03-03-0001-0018
19	WILSON/JOHN & MARGARET TRUST	100 W. W. SHEPHERD, WVA 26401	17-03-03-0001-0019
20	WILSON/JOHN & MARGARET TRUST	100 W. W. SHEPHERD, WVA 26401	17-03-03-0001-0020
21	WILSON/JOHN & MARGARET TRUST	100 W. W. SHEPHERD, WVA 26401	17-03-03-0001-0021
22	WILSON/JOHN & MARGARET TRUST	100 W. W. SHEPHERD, WVA 26401	17-03-03-0001-0022
23	WILSON/JOHN & MARGARET TRUST	100 W. W. SHEPHERD, WVA 26401	17-03-03-0001-0023
24	WILSON/JOHN & MARGARET TRUST	100 W. W. SHEPHERD, WVA 26401	17-03-03-0001-0024
25	WILSON/JOHN & MARGARET TRUST	100 W. W. SHEPHERD, WVA 26401	17-03-03-0001-0025
26	WILSON/JOHN & MARGARET TRUST	100 W. W. SHEPHERD, WVA 26401	17-03-03-0001-0026
27	WILSON/JOHN & MARGARET TRUST	100 W. W. SHEPHERD, WVA 26401	17-03-03-0001-0027
28	WILSON/JOHN & MARGARET TRUST	100 W. W. SHEPHERD, WVA 26401	17-03-03-0001-0028



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NOT FOR CONSTRUCTION
2023-11-17

Diversified Production LLC

SCALE: AS SHOWN
DATE: 11/17/23
CHECKED: [Signature]
APPROVED: [Signature]
SURVEY DATE: 11/17/23
TALKED BY: [Signature]
FIELD BOOK No.:

THRASHER

THE THRASHER GROUP, INC.
CIVIL, ENVIRONMENTAL, & CONSULTING FIELD SERVICES
800 WEST DAVIS BRADFORD, BRIDGEPORT, WV 26301
PHONE: (206) 824-4108 FAX: (206) 824-1811

PHASE No.	
CONTRACT No.	
PROJECT No.	170-11330

DIVERSIFIED PRODUCTION, LLC
SITE SAFETY PLAN FOR THE
COUNTRY WELL PAD
HARRISON COUNTY, WV
POTENTIAL WATER SOURCES

SHEET No.
WW-9

CAD FILE: H:\2023\170-11330\23-0009.dwg PLOT DATE/TIME: 11/17/2023 10:34 AM

COUNTRY SOUTH WELL BMH			
ID	LEASE NUMBER	LESSOR	LEASE ACREAGE
A	BP049602	A B WILLIS & ET AL	33.00
B	BP048589	J E CORE ET AL	140.00
C	BP044909	C C WILSON ET AL	209.00
D	BP035755	DELIA COLLINS ET AL	106.00
E	BP037527	A. C. MORRIS ET AL	32.00
F	BP024534	A. Y. MCELROY ET AL	252.00
G	BP024394	M O GOFF ET AL	620.00
H	BP002907	BELLE S PAYNE ET AL	800.00
I	DONNA S. FREDERICK ET AL	H/S/A OF SALLIE A. MURRAY	25.00

COUNTRY SOUTH WELL BMH		
ID	SURFACE OWNER	DIST-TM-PAR
1	JAMES D. MILLER ET AL	5-230-45
2	JANICE M. BRENNAN TRUST A	5-230-35
3	JB ANGUS RANCH LLC	3-13-11
4	JB ANGUS RANCH LLC	3-13-11.2
5	JB ANGUS RANCH LLC	3-13-10
6	JB ANGUS RANCH LLC	3-13-12.5
7	MICHAEL E. CONLEY	3-13-15.5
8	MICHAEL E. & ANN R. CONLEY	3-13-15.4
9	EVAN M. & WHITNEY HELMS KLIETHERMES	3-13-16.2
10	EVAN M. KLIETHERMES	3-13-16
11	LINDA O. MORGAN	3-14-16
12	JUSTIN H. STEVENS	3-14-2.24
13	FREDERICK C. FORSYTH III ET AL	3-14-2.8
14	LYNN W. & MARY JEANINE BURNSIDE	3-14-2.6
15	NICHOLAS A. BUNNELL	3-14-2.32
16	TAMMY J. SHAFFER	3-14-3.3
17	LESLEY E. BUNNELL ET AL	3-14-3.4
18	KATHLEEN H. BOETTICHER TRUST	3-14-3.1
19	KEITH & AMANDA ZEBLEY	3-14-6
20	KEITH & AMANDA ZEBLEY	3-14-5.1
21	CLAYTON W. VIVIAN C. LOUDERMILK	3-14-7.9
22	HUNTER W. REED ET AL	3-14-7.8
23	J. R. GARRETT II ET AL	3-14-5
24	JOSEPH R. GARRETT II ET AL	3-19-6
25	JOSEPH R. GARRETT II	3-19-5
26	JOSEPH R. GARRETT II ET AL	3-19-9

SEE PAGE 2 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 #: T70-11330 COUNTRY WELL PAD
DRAWING #: COUNTRY 8MH
SCALE: 1" = 2,000'
DATE: JANUARY 25, 2024

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

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



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

OPERATOR'S WELL #: COUNTRY 8MH
API WELL #: 47 33 06028
STATE COUNTY PERMIT

WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW
WATERSHED: THOMAS FORK TO BOOTH'S CREEK ELEVATION: 1,134.30'±
COUNTY/DISTRICT: HARRISON / CLAY-OUTSIDE QUADRANGLE: ROSEMONT, WV 7.5'
SURFACE OWNER: JAMES D. MILLER ET AL ACREAGE: 24.14±
OIL & GAS ROYALTY OWNER: A B WILLIS & ET AL ACREAGE: 33.00±
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: 7,610'± TMD: 26,625'±

02/16/2024

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 9,921 feet south of Latitude: 39° 20' 00"
 SHL is located on topo map 7,895 feet south of Latitude: 39° 22' 30"

COUNTRY 8MH

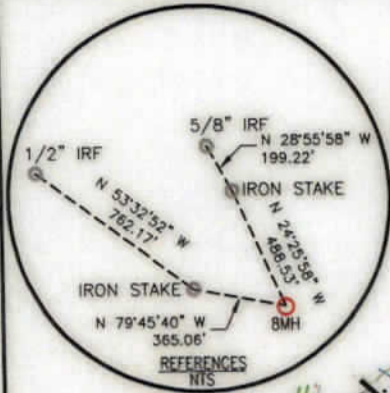
PAGE 2 OF 2

WELL PAD ORIENTATION DETAIL NTS

- WELL RESTRICTIONS**
1. OCCUPIED DWELLING 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.

LINE	BEARING	DISTANCE
L1	N 61°57'55" W	1101.56
L2	N 44°24'21" W	1138.91
L3	N 25°44'09" W	687.32



GRID NORTH
 WV STATE PLANE
 NORTH ZONE NAD83 (2011)

SURFACE HOLE LOCATION (SHL)	
UTM 17-NAD83 (M):	NAD83, WV NORTH (FT)
NORTHING: 4356284.492	NORTHING: 311605.979
EASTING: 567932.457	EASTING: 1767292.863

LANDING POINT LOCATION (LPL)	
UTM 17-NAD83 (M):	NAD83, WV NORTH (FT)
NORTHING: 4356327.829	NORTHING: 311716.951
EASTING: 568504.155	EASTING: 1769171.171

TURNING POINT 1 (TP1)	
UTM 17-NAD83 (M):	NAD83, WV NORTH (FT)
NORTHING: 4353458.114	NORTHING: 302243.367
EASTING: 569548.850	EASTING: 1772442.437

TURNING POINT 2 (TP2)	
UTM 17-NAD83 (M):	NAD83, WV NORTH (FT)
NORTHING: 4353370.024	NORTHING: 301952.846
EASTING: 569575.746	EASTING: 1772525.880

TURNING POINT 3 (TP3)	
UTM 17-NAD83 (M):	NAD83, WV NORTH (FT)
NORTHING: 4353133.485	NORTHING: 301173.468
EASTING: 569634.517	EASTING: 1772705.814

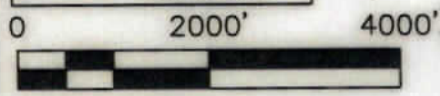
TURNING POINT 4 (TP4)	
UTM 17-NAD83 (M):	NAD83, WV NORTH (FT)
NORTHING: 4352886.617	NORTHING: 300357.756
EASTING: 569738.063	EASTING: 1773032.101

TURNING POINT 5 (TP5)	
UTM 17-NAD83 (M):	NAD83, WV NORTH (FT)
NORTHING: 4352728.052	NORTHING: 299833.266
EASTING: 569814.647	EASTING: 1773274.744

BOTTOM HOLE LOCATION (BHL)	
UTM 17-NAD83 (M):	NAD83, WV NORTH (FT)
NORTHING: 4351064.872	NORTHING: 294342.739
EASTING: 570420.102	EASTING: 1775170.643

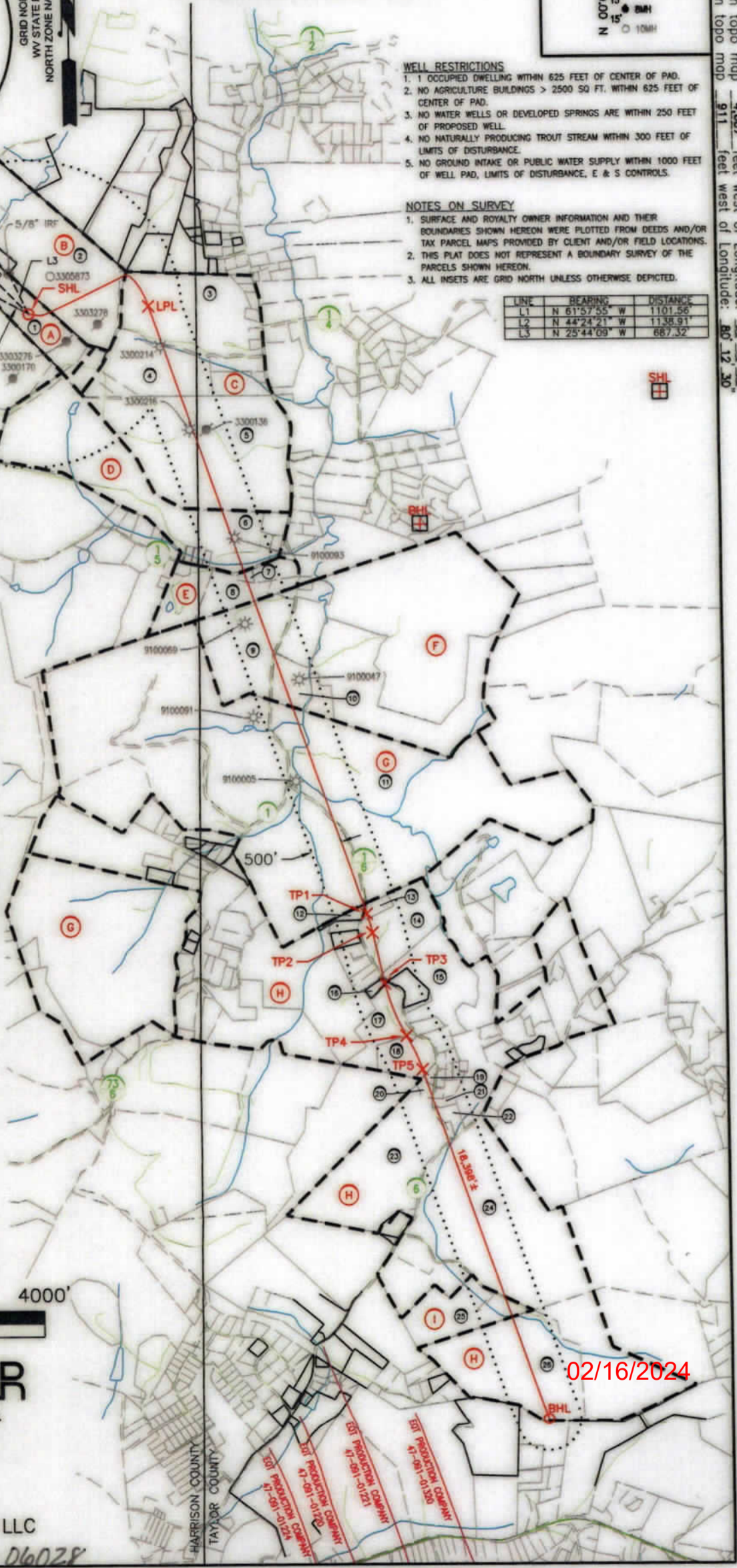
LEGEND

- ⊕ - TOPO MAP POINT
- - PRO. SURFACE HOLE / BOTTOM HOLE
- LPL/TP1X - PRO. LANDING POINT LOCATION / TURNING POINT
- ☼ - EXISTING GAS WELLS
- - PERMITTED GAS WELLS
- ⊗ - PLUGGED GAS WELLS
- ⊘ - ABANDONED GAS WELLS
- - REFERENCE POINT
- - - LEASE BOUNDARY
- - - SURVEYED PARCEL
- - - ADJONER 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
 47-033-06028



BHL is located on topo map 4,687 feet west of Longitude: 80° 10' 00"
 SHL is located on topo map 911 feet west of Longitude: 80° 12' 30"

02/16/2024

WW-6A1
(5/13)

Operator's Well No. Country South 8MH

**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 pages

**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 Morris*
 Its: Authorized Permitting Agent

Country South	LEGACY LEASE NUMBER	TAX MAP	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
A	BP049602	5-230-45	A. B. WILLIS AND AUDREY WILLIS, HUSBAND AND WIFE; ELLA WILLIS, SINGLE; JOHN R. LUCAS AND ETTA LUCAS, HUSBAND AND WIFE; GEORGE W. BALL AND ANNARIE BALL, HUSBAND AND WIFE; ELIZABETH L. WILLIS, SINGLE; HOBERT BOGGESS AND HAZEL W. BOGGESS, HUSBAND AND WIFE; R. B. ROMINE AND MILDRED ROMINE HUSBAND AND WIFE; D. M. WILLIS AND GILLA C. WILLIS, HUSBAND AND WIFE; C. C. DENHAM AND PERLE WILLIS DENHAM, HUSBAND AND WIFE; H. H. WILLIS AND GERALDINE WILLIS, HUSBAND AND WIFE; OLGA B. WILLIS, WIDOW	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	482	532
			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	179
			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
			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	1521	1290
			TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	1727	722
			M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	1736	142
B	BP048589	5-230-35	J.E. CORE AND ERMA L. CORE, HUSBAND AND WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	471	461
			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	179
			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
			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	1521	1290
			TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	1727	722
			M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	1736	142
C	BP044909	3-13-10 3-13-11 3-13-11.2	C.C. WILSON AND MARY J. WILSON, HUSBAND AND WIFE; AND T. V. WILSON AND MATTIE WILSON, HUSBAND AND WIFE	OAKLAND OIL AND GAS COMPANY	NOT LESS THAN 1/8	789	339
			OAKLAND OIL AND GAS COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	14	47
			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	179
			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
			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	1521	1290
			TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	1727	722
			M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	1736	142
			D	BP035755	3-13-12.5	SAMUEL COLLINS AND DELILA COLLINS, HUSBAND AND WIFE	R.A. GARRETT
R. A. GARRETT	G.H. TRAINER AND J. E. TRAINER	ASSIGNMENT				221	363
GEORGE H. TRAINER AND J. E. TRAINER AND VIOLA C. TRAINER HUSBAND AND WIFE; J. E. TRAINER AND TRESSIE MAY TRAINER, HUSBAND AND WIFE; AND GEORGE H. TRAINER AND J.E. TRAINER, PARTNERS TRADING AS SUN GAS COMPANY	W. W. HEPBURN	ASSIGNMENT				262	458
W. W. HEPBURN	EASTERN PETROLEUM COMPANY	ASSIGNMENT				263	140
EASTERN PETROLEUM COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT				299	192
HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED				903	179
CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT				1136	250

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 CLERK OF THE
 ENVIRONMENT
 AND
 NATURAL
 RESOURCES
 DEPARTMENT

4703300023

Country South	LEGACY LEASE NUMBER	TAX MAP	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE	
			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	1521	1290	
			TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	1727	722	
			M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	1736	142	
E	BP037527	3-13-15.4 3-13-15.5	A.C. MORRIS	B. A. MANN AND D. H. GAWTHROP	NOT LESS THAN 1/8	788	224	
			DANA H. GAWTHROP	B.A. MANN	ASSIGNMENT	7	443	
			B. A. MANN	PITTSBURGH AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	Unrecorded	Unrecorded	
			PITTSBURGH AND WEST VIRGINIA GAS COMPANY; AND PHILADELPHIA OIL COMPANY OF WEST VIRGINIA	HOPE NATURAL GAS COMPANY	ASSIGNMENT	23	375	
						341	327	
			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	138	270	
						903	179	
						5	555	
			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250	
			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				
			1736	142				
			39	148				
F	BP024534	3-13-16.2 3-13-16	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	
G	BP024394	3-14-16	M. O. GOFF, WIDOW	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	206	374	
			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	179	
			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250	
			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	1521	1290	
			TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	1727	722	
			M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	1736	142	
H	BP002907	3-14-2.24	BELLE S. PAYNE, COMMITTEE OF WALTER W. PAYNE, AN INSANE PERSON AND SPECIAL COMMISSIONER	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	4	587	
		3-14-2.8		HOPE NATURAL GAS COMPANY	ASSIGNMENT	42	342	
		3-14-2.6		HOPE NATURAL GAS COMPANY	ASSIGNMENT	42	342	
		3-14-2.32		SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	42	342
		3-14-3.3		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	138	270
		3-14-3.4		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	5	555
		3-14-3.1		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
		3-14-6		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
		3-14-5.1		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
3-14-7.9								

DECEMBER 7 2022
 Office of Oil and Gas

4703306029

Country South	LEGACY LEASE NUMBER	TAX MAP	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
		3-14-7.8	DOMINION TRANSMISSION, INC.	TRIANA ENERGY, LLC	ASSIGNMENT	33	377
		3-14-5	TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	1727	722
		p/o 3-19-6	M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	1736	142
		3-19-9	Donna S. Frederick	LONG RIDGE WEST VIRGINIA, LLC	15%	72	16
			Luana Barbara Ross Dixon	LONG RIDGE WEST VIRGINIA, LLC	18%	CT	
			Max Mueller Dixon	LONG RIDGE WEST VIRGINIA, LLC	18%	CT	
			E. Comer Buck aka Edward Comer Buck, Jr.	LONG RIDGE WEST VIRGINIA, LLC	15%	TBR	
			Lisa Fleming Clarke	LONG RIDGE WEST VIRGINIA, LLC	18%	CT	
			Juliet Fleming Ingegneri	LONG RIDGE WEST VIRGINIA, LLC	15%	TBR	
			Frank M. Dixon, II	LONG RIDGE WEST VIRGINIA, LLC	18%	CT	
			Sam Perry Dixon, Jr.	LONG RIDGE WEST VIRGINIA, LLC	15%	TBR	
			Thomas Albert Dixon	LONG RIDGE WEST VIRGINIA, LLC	15%	TBR	
			Emily Dixon Meadows	LONG RIDGE WEST VIRGINIA, LLC	15%	TBR	
			Charles Jordan Dulin, Jr.	LONG RIDGE WEST VIRGINIA, LLC	15%	71	576
			Jane Dulin Sullivan	LONG RIDGE WEST VIRGINIA, LLC	15%	TBR	
			Martha Dulin Burtis	LONG RIDGE WEST VIRGINIA, LLC	15%	71	255
			Nancy Oakes	LONG RIDGE WEST VIRGINIA, LLC	18%	CT	
			Fred Watson	LONG RIDGE WEST VIRGINIA, LLC	18%	CT	
			Francesca Isbell Weaver	LONG RIDGE WEST VIRGINIA, LLC	15%	71	244
			Antonia Weaver Atkins f/k/a Antonia Weaver Pelaez	LONG RIDGE WEST VIRGINIA, LLC	15%	71	246
			WV Minerals, Inc.	LONG RIDGE WEST VIRGINIA, LLC	18%	72	217
			Perry D. Blanchard	LONG RIDGE WEST VIRGINIA, LLC	15%	TBR	
			Maxine M. Blanchard	LONG RIDGE WEST VIRGINIA, LLC	15%	TBR	
			Ellen K. Blanchard	LONG RIDGE WEST VIRGINIA, LLC	15%	TBR	
			Erik C. Blanchard	LONG RIDGE WEST VIRGINIA, LLC	15%	TBR	
			Nelli Haley Murray	LONG RIDGE WEST VIRGINIA, LLC	15%	72	254
			Nancy Garland Payne Coffee Strosnider	LONG RIDGE WEST VIRGINIA, LLC	15%	71	238
			Mary Margaret Payne Little	LONG RIDGE WEST VIRGINIA, LLC	15%	72	273
			David Allen Foard III a/k/a Allen Foard	LONG RIDGE WEST VIRGINIA, LLC	15%	72	256
			Nancy Brashear	LONG RIDGE WEST VIRGINIA, LLC	15%	72	263
			Paul Morgan Foard	LONG RIDGE WEST VIRGINIA, LLC	15%	72	261
			Mary F. Giesel	LONG RIDGE WEST VIRGINIA, LLC	15%	72	265
			Mary Sue Ferrell f/k/a Mary Sue Rhoads	LONG RIDGE WEST VIRGINIA, LLC	15%	71	570
			Richard L. Ferrell	LONG RIDGE WEST VIRGINIA, LLC	15%	72	267
	112961.10213	3-19-5	James E. Ferrell	LONG RIDGE WEST VIRGINIA, LLC	18%	CT	
			Mike Manning a/k/a Michael Lewis Manning	LONG RIDGE WEST VIRGINIA, LLC	15%	TBR	
			Chapin Manning aka Chapin Ray Manning	LONG RIDGE WEST VIRGINIA, LLC	18%	CT	
			Max Manning aka Maxwell Lawson Manning	LONG RIDGE WEST VIRGINIA, LLC	18%	CT	
			Evan Watson	LONG RIDGE WEST VIRGINIA, LLC	15%	72	505
			Erin Watson Cremeans	LONG RIDGE WEST VIRGINIA, LLC	18%	CT	
			Earl Joseph Watson, Jr.	LONG RIDGE WEST VIRGINIA, LLC	18%	CT	
			Ronda Manning (Ronda Lee Manning)	LONG RIDGE WEST VIRGINIA, LLC	18%	CT	
			Mary Ruth Talbot	LONG RIDGE WEST VIRGINIA, LLC	18%	CT	
			Helen May Talbot McLenan	LONG RIDGE WEST VIRGINIA, LLC	18%	CT	

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Country South	LEGACY LEASE NUMBER	TAX MAP	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
			Johnny Alfred Talbot	LONG RIDGE WEST VIRGINIA, LLC	15%	TBR	
			Louis H. Talbot	LONG RIDGE WEST VIRGINIA, LLC	18%	CT	
			Brenda J. Whatley	LONG RIDGE WEST VIRGINIA, LLC	18%	CT	
			Sandra Kirk	LONG RIDGE WEST VIRGINIA, LLC	18%	CT	
			Shirley Jean Williamson Payne	LONG RIDGE WEST VIRGINIA, LLC	18%	CT	
			Patricia Butler	LONG RIDGE WEST VIRGINIA, LLC	12.5%	TBR	
			Sherry "Kim" Burkett Bays	LONG RIDGE WEST VIRGINIA, LLC	15%	TBR	
			Toni Ayn Burkett Detzler	LONG RIDGE WEST VIRGINIA, LLC	15%	TBR	
			Lisa Rhea Burkett Hallstrom	LONG RIDGE WEST VIRGINIA, LLC	15%	TBR	
			Carl Edgar Talbot	LONG RIDGE WEST VIRGINIA, LLC	18%	CT	
			John D. Baldwin	LONG RIDGE WEST VIRGINIA, LLC	18%	CT	
			Grant Lambert Landrum, Jr.	LONG RIDGE WEST VIRGINIA, LLC	18%	CT	
			Julia Lovett Landrum	LONG RIDGE WEST VIRGINIA, LLC	18%	CT	
			Drew Kornegay	LONG RIDGE WEST VIRGINIA, LLC	18%	CT	
			Melinda Garza	LONG RIDGE WEST VIRGINIA, LLC	18%	CT	
			Marsha Uptegraph	LONG RIDGE WEST VIRGINIA, LLC	18%	CT	
			Sharon Johnson	LONG RIDGE WEST VIRGINIA, LLC	18%	CT	
			James Lambert Landrum, Jr.	LONG RIDGE WEST VIRGINIA, LLC	18%	CT	
			William Emmett Jones	LONG RIDGE WEST VIRGINIA, LLC	18%	CT	
			Karen Miley	LONG RIDGE WEST VIRGINIA, LLC	15%	TBR	
			Tammy Whitworth NKA Tammy Ater	LONG RIDGE WEST VIRGINIA, LLC	15%	TBR	
			James David Walton	LONG RIDGE WEST VIRGINIA, LLC	15%	TBR	

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 WV Department of
 Environmental Protection

4705300020

ASSIGNMENT OF FARMOUT AGREEMENT

STATE OF WEST VIRGINIA §
 §
COUNTY OF HARRISON §

This ASSIGNMENT OF FARMOUT AGREEMENT (this "Assignment"), dated 5th August, 2022, and effective August 19, 2022, is made by and between M4 ENERGY, LLC, a Pennsylvania limited liability company, whose address is 601 Liberty Street, Watsonstown, PA 17777 ("**Assignor**"), and LONG RIDGE WEST VIRGINIA LLC, a Delaware limited liability company, whose address is 501 Corporate Drive, Suite 210, Canonsburg, PA 15317, successor to Ohio River Partners Shareholder LLC, a Delaware limited liability company ("**Assignee**"). The foregoing are sometimes herein referred to individually as a "**Party**" and collectively as the "**Parties**."

WHEREAS, Dominion Transmission, Inc., now known as Eastern Gas Transmission and Storage, Inc. as Farmor ("**Farmor**"), and Triana Energy, LLC as Farmee, entered into that certain Farmout Agreement dated October 22, 2013 covering oil and gas leasehold and fee mineral interests located in Harrison and Taylor Counties, West Virginia, to develop certain acreage as to those depths from the top of the Marcellus Formation (as seen by the Currey #1H Pilot well, API number 47-091-1188, at a depth of 7,252') to the bottom of said formation (as seen by the Currey #1H Pilot well, API number 47-091-01188, at a depth of 7,410') (such agreement, the "**Farmout Agreement**" and such depths, the "**Target Formation**").

WHEREAS, on February 15, 2022, Triana Energy, LLC, assigned its interest in and to the Farmout Agreement to Assignor; and

WHEREAS, subject to the consent of EGT&S as required by the Farmout Agreement, Assignor desires to assign to Assignee all of its rights as the "Farmee" under the Farmout Agreement along with its right, title and interest in the properties listed on Exhibit A hereto; and

WHEREAS, Assignee desires to accept the assignment from Assignor and assume all of the obligations of the Farmout Agreement.



4703306028

Long Ridge West Virginia LLC
501 Corporate Drive, Suite 210
Canonsburg, PA 15317

www.longridgeenergy.com

November 21, 2023

Diversified Production, LLC
414 Summers Street
Charleston, WV 25301
Att: Ben Sullivan, Executive VP and General Counsel

Re: West Virginia Development

Dear Ben:

This letter will memorialize our negotiations regarding the development of the oil and gas leasehold assets held by Long Ridge West Virginia LLC ("**LRWV**") in Taylor and Harrison Counties, West Virginia (the "**Leases**").

The agreements between LRWV and Diversified grant certain rights to Diversified, including the rights to permit, drill, extract, produce, and market oil and natural gas from the Leases, as well as the right to participate in each well drilled. The list of leases can be found in the document attached to this letter. Diversified's rights will be documented in a suitable memorandum, which will be recorded in the real property records of each affected county.

We understand that a copy of this letter agreement may be shared with the WV DEP in connection with permit applications you plan to file in furtherance of these development plans. Please countersign and return a copy of this letter to confirm you agree with our understanding.

Sincerely,

Len Paugh
Head of Gas Development

Agreed and acknowledged this 27th day of November, 2023.

Diversified Production, LLC

By: Ben Sullivan
Its: Executive VP and General Counsel

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Environmental Protection

02/16/2024

Explanation of Permitting Agreement Letter Between Long Ridge WV and Diversified Production, LLC

Amy Morris <amy@aux-energy.com>

Wed 11/29/2023 3:50 PM

To: James.A.Martin@wv.gov <James.A.Martin@wv.gov>; Brewer, Charles T <charles.t.brewer@wv.gov>

Marty and Taylor,

Pursuant to our telephone conversation this morning, I wanted to provide clarification on the agreement letter that will be submitted with Diversified Production, LLC's Country South 2MH permit application.

The letter is in effect as the agreement between the two companies that gives Diversified 100% of the rights to permit, drill, produce, extract and market gas from that well pad.

We thank you very much for your assistance in this matter. Should you need any further information, please don't hesitate to ask.



www.aux.energy

Amy Morris

Director of Regulatory Affairs

304-376-0111

Email: amy@aux-energy.com

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December 20, 2023

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 Country South 8MH.

Diversified Production LLC has obtained the right to drill, extract and produce the minerals under the following County Routes in the area reflected on the Country South 8MH well plat.

Rt.1
Rt. 6
Rt. 1/5
Rt. 1/6

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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Office of Oil and Gas
DEC 27 2023

Em

02/16/2024

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

Date of Notice Certification: 12/19/2023

API No. 47- 033

Operator's Well No. Country South 8MH

Well Pad Name: Country

Notice has been given:

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

State: West Virginia
County: Harrison
District: Clay- Outside
Quadrangle: Rosemont
Watershed: Thomas Fork of Booth's Creek

UTM NAD 83 Easting: 567,932.457
Northing: 4,356,284.492
Public Road Access: Benedum Drive, Rt. 73/73
Generally used farm name: James D. Miller, et al

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

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

*PLEASE CHECK ALL THAT APPLY

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

OOG OFFICE USE ONLY

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NOT REQUIRED

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RECEIVED/
NOT REQUIRED

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DEC 27 2023

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 notified 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.

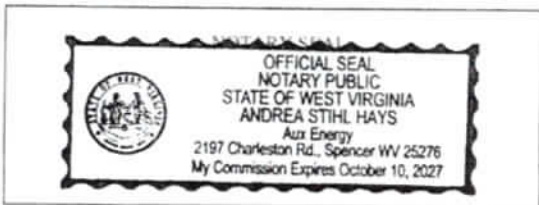
02/16/2024

WW-6AC
(1/12)

Certification of Notice is hereby given:

THEREFORE, I Amy L. Morris *[Signature]* 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:	<u></u>
Telephone:	<u>304-376-0111</u>	Email:	<u>amy@aux-energy.com</u>



Subscribed and sworn before me this 19th day of December, 2023
Andrea Stihl Hays Notary Public
 My Commission Expires Oct 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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 Office of Oil and Gas
 DEC 27 2023
 WV Department of
 Environmental Protection

**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: 12/19/2023 **Date Permit Application Filed:** 12/21/2023

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: James D. Miller *See attached list

Address: 67 County Line Road

Bridgeport, WV 26330

Name: Michael D. Miller

Address: 525 Broadway Avenue

Bridgeport, WV 26330

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: Vincent Brothers Rentals, LLC

Address: 107 Beechwood Drive

Shinnston, WV 26431

Name: _____

Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: _____

Address: _____

COAL OWNER OR LESSEE

Name: James D. Miller *See attached list

Address: 525 Broadway Avenue

Bridgeport, WV 26330

COAL OPERATOR

Name: No Coal Operator

Address: _____

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

Name: *See attached map/list

Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: Eastern Gas Transmission and Storage, Inc., Attn: John Love

Address: 925 White Oaks Blvd.

Bridgeport, WV 26330

*Please attach additional forms if necessary

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Office of Oil and Gas
2023

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 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

02/16/2024

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-11(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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Office of Oil and Gas
DEC 06 2011
Department of
Environmental Protection

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

02/16/2024

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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DEC 27 2023
Department of
Environmental Protection

WW-6A
(8-13)

API NO. 47- 033
OPERATOR WELL NO. Country South 6MH
Well Pad Name: Country

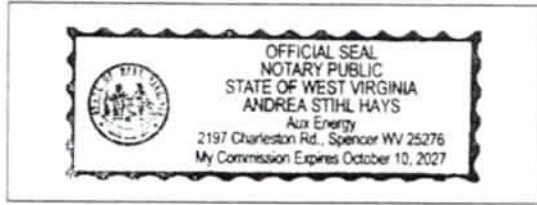
Notice is hereby given by:

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 19th day of Dec., 2023.

Andrew Stihl Hays Notary Public

My Commission Expires Oct 10, 2027

Office of
DEC 27 2023
Department of
Environmental Protection

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**WW-6A Additional Owners Listing
Country Pad**

Surface Owner – Well Pad

Lisa A. Consalvo, FKA Lisa A. Miller
1424 S. Skyview Drive
Elkins, WV 26241

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DEC 27 2023

Department of
Energy and Mineral Resources

02/16/2024

4703306028

POTENTIAL WATER PURVEYORS WITHIN 2,000'

Tag	PROPERTY OWNER	Address	PARCEL ID
1	BRENNAN JOHN E REVOCABLE TRUST	PO Box 98 Shinnston ,WV 26431	17-05-0230-0061-0000
2	MILLER JAMES D ETAL	67 Country Line Road Bridgeport,WV 26330	17-05-0230-0045-0000
3	BRENNAN JOHN E REVOCABLE TRUST	PO Box 98 Shinnston ,WV 26431	17-05-0230-0035-0002
4	JB ANGUS RANCH LLC	3080 School Street Clarksburg ,WV 26301	17-05-0250-0003-0004
5	JB ANGUS RANCH LLC	3080 School Street Clarksburg ,WV 26301	17-05-0230-0058-0000
6	MILLER JIMMIE G & TONI J	180 Quarter Horse Dr Shinnston ,WV 26431	17-05-0230-0044-0001
7	JB ANGUS RANCH LLC	3080 School Street Clarksburg ,WV 26301	17-05-0230-0049-0000
8	MCMILLION DANAL "PETE"	128 Sugar Camp Road Shinnston ,WV 26431	17-05-0230-0044-0000
9	BRENNAN JOHN E REVOCABLE TRUST	PO Box 98 Shinnston ,WV 26431	17-05-0230-0035-0003
10	BRENNAN JOHN E REVOCABLE TRUST	PO Box 98 Shinnston ,WV 26431	17-05-0230-0035-0004
11	MILLER JIMMIE G & TONI J	180 Quarter Horse Dr Shinnston ,WV 26431	17-05-0230-0044-0002
12	BRENNAN JANICE M TRUST A	PO Box 98 Shinnston ,WV 26431	17-05-0230-0023-0000
13	JB ANGUS RANCH LLC	3080 School Street Clarksburg ,WV 26301	17-05-0230-0046-0000
14	RONALD LANE INC	818 Alpaca Way Shinnston ,WV 26431	17-05-0230-0052-0000
15	BRENNAN JANICE M TRUST A	PO Box 98 Shinnston ,WV 26431	17-05-0230-0035-0000
16	BE PROPERTIES LLC	PO Box 3939 Charleston , WV 25339	17-05-0230-0045-0001
17	VINCENT BROTHERS RENTALS LLC	107 Beechwood Drive Shinnston , WV 26431	17-05-0230-0035-0001
18	MCMILLION DANAL L	128 Sugar Camp Road Shinnston ,WV 26431	17-05-0230-0032-0000
19	MCMILLION DANAL "PETE"	128 Sugar Camp Road Shinnston ,WV 26431	17-05-0230-0033-0000
20	SALTWELL DEVELOPMENT LLC	4930 Benedum Drive Bridgeport,WV 26330	17-05-0230-0044-0003
21	PYLE JOSEPH R & CHARLOTTE A	5588 Benedum Drive Shinnston,WV 26431	17-05-0230-0024-0002
22	BRENNAN JANICE M TRUST A	PO Box 98 Shinnston, WV 26431	17-05-0230-0035-0000
23	LANE RONALD	818 Alpaca Way Shinnston ,WV 26431	17-05-0230-0036-0001
24	WHITE JEREMY M & TARA O	21 Vivian Ct Bridgeport,WV 26330	17-05-0230-0056-0001
25	JB ANGUS RANCH LLC	3080 School Street Clarksburg ,WV 26301	46-03-0013-0011-0002
26	JB ANGUS RANCH LLC	3080 School Street Clarksburg ,WV 26301	46-03-0013-0011-0000
27	JB ANGUS RANCH LLC	3080 School Street Clarksburg ,WV 26301	46-03-0013-0010-0000
28	JB ANGUS RANCH LLC	3080 School Street Clarksburg ,WV 26301	46-03-0013-0012-0005

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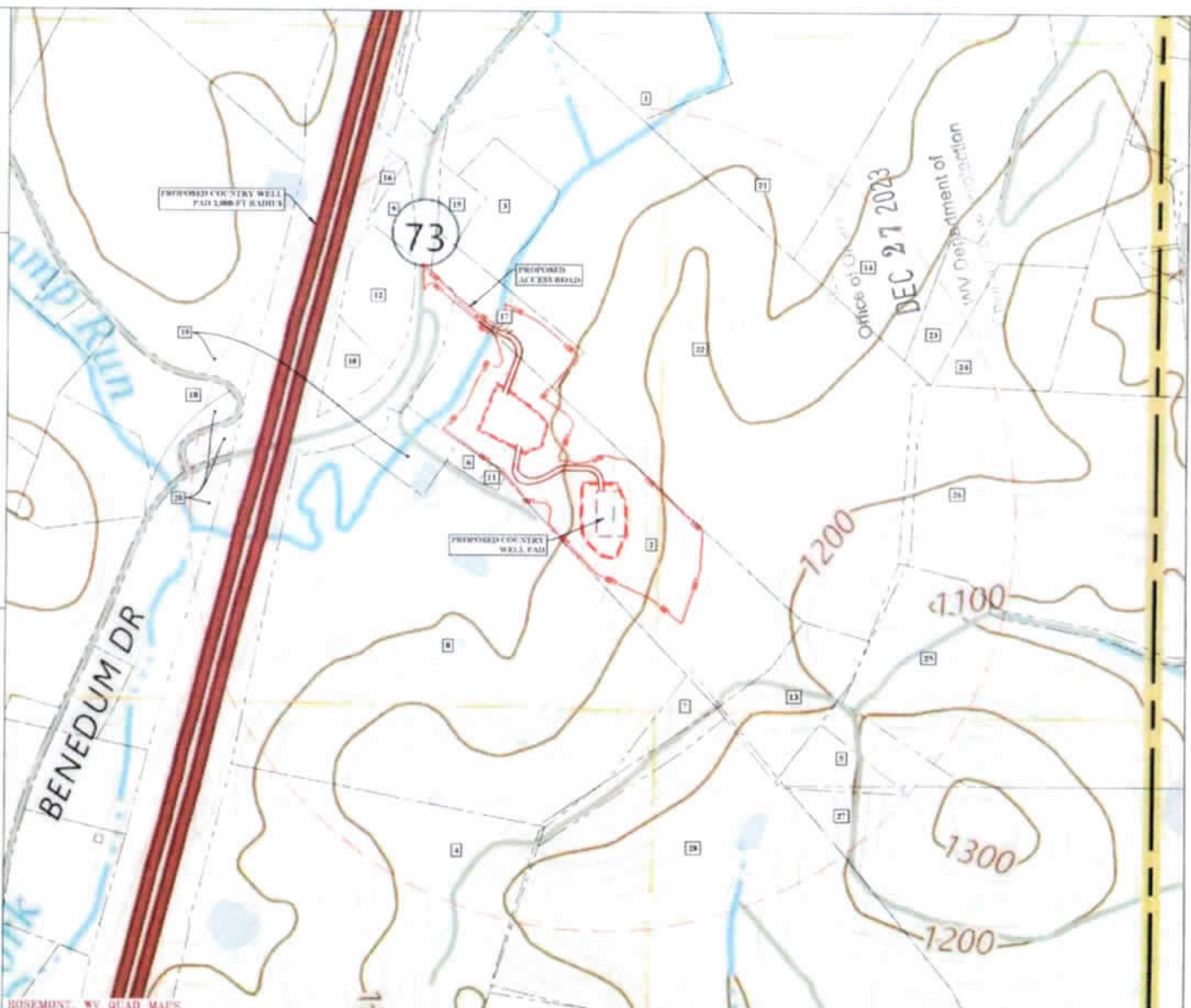
PLAN LEGEND

- EXISTING ROADWAY
- PROPERTY LINE
- PROPOSED LINE OF SETTLEMENT
- PROPOSED BRUSH FENCE
- PROPOSED FENCE LINE
- PROPOSED WELL PAD PERIMETER BOUNDARY
- 200-FT BUFFER FROM WELL PAD
- AREA WITHIN LARGER WELL PAD

Potential Water Purveyors within 2,000' of Pad

HARRISON COUNTY, WY HIGHWAY MAP

1 MILE 0 1 MILE 2 MILES



Office of LAND USE
DEC 27 2023
 WY Department of Conservation

ALL INFORMATION CONTAINED HEREIN IS THE SOLE PROPERTY OF THE THRASHER GROUP AND APPROXIMATION OF THESE LOCATIONS IS MADE ON A PART FOR ANY REASON. THESE ARE NOT INTENTED TO BE USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF THE THRASHER GROUP, INC.

NOT FOR CONSTRUCTION
 2023-11-17

ROSEMONT, WY QUAD MAPS

Diversified Production LLC

DATE	
ISSUED	
REVISED	
APPROVED	
DRAWN BY	
CHECKED BY	
SCALE	
PROJECT NO.	
DATE	
BY	
FOR	

THRASHER
 THE THRASHER GROUP, INC.
 CIVIL ENGINEERING • DESIGN • FIELD SERVICES
 100 WEST MAIN STREET, CHEYENNE, WY 82001
 PHONE (307) 635-4100 • FAX (307) 635-3001

PROJECT No.	170-11330
CONTRACT No.	
DATE	
BY	
FOR	

DIVERSIFIED PRODUCTION, LLC
 SITE SAFETY PLAN FOR THE
 COUNTRY WELL PAD
 HARRISON COUNTY, WY
 POTENTIAL WATER SOURCES

W

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: 11/14/2023 **Date of Planned Entry:** 11/22/2023

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: James D. Miller (Pad) *See attached sheet for access road owner
 Address: 67 County Line Road
Bridgeport, WV 26330

Name: Michael D. Miller
 Address: 525 Broadway Avenue
Bridgeport, WV 26330

Name: Lisa A. Consalvo, FKA Lisa A. Miller
 Address: 1424 S. Skyview Drive
Elkins, WV 26241

COAL OWNER OR LESSEE

Name: James D. Miller *See attached sheet for additional owners
 Address: 67 County Line Road
Bridgeport, WV 26330

MINERAL OWNER(s)

Name: James D. Miller *See attached sheet for additional owners
 Address: 67 County Line Road
Bridgeport, WV 26330

*please attach additional forms if necessary

Notice is hereby given:

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

State:	<u>West Virginia</u>	Approx. Latitude & Longitude:	<u>39.353316° -80.211727°</u>
County:	<u>Harrison</u>	Public Road Access:	<u>Benedum Drive, Rt. 131</u>
District:	<u>Clay - Outside</u>	Watershed:	<u>Thomas Fork of Booth's Creek</u>
Quadrangle:	<u>Rosemont</u>	Generally used farm name:	<u>James D. Miller, et al</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
 Telephone: 304-376-0111
 Email: amy@aux-energy.com

Address: 101 McQuiston Drive
Jackson Center, PA 16133

Facsimile: _____

Office of
DEC 27 2023
WV Department of
Environmental Protection

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.

02/16/2024

**WW-6A3 Additional Owners Listing
Country Pad**

Surface Owner – Access Road

Vincent Brothers Rentals, LLC
107 Beechwood Drive
Shinnston, WV 26431

Coal Owners – Well Pad

Michael D. Miller
525 Broadway Avenue
Bridgeport, WV 26330

Lisa A. Consalvo, FKA Lisa A. Miller
1424 S. Skyview Drive
Elkins, WV 26241

Mineral Owners – Well Pad

Michael D. Miller
525 Broadway Avenue
Bridgeport, WV 26330

Lisa A. Consalvo, FKA Lisa A. Miller
1424 S. Skyview Drive
Elkins, WV 26241

RECEIVED
Office of Oil and Gas
DEC 27 2023
Department of
Energy

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: 12/19/2023 **Date Permit Application Filed:** 12/21/2023

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

- CERTIFIED MAIL
RETURN RECEIPT REQUESTED
- HAND
DELIVERY

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

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

Name: James D. Miller - Pad Owner *See attached list
Address: 525 Broadway Avenue
Bridgeport, WV 26330

Name: Vincent Brothers Rentals, LLC
Address: 107 Beechwood Drive
Shinnston, WV 26431

Notice is hereby given:

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

State:	West Virginia	UTM NAD 83	Easting:	567,932.381
County:	Harrison		Northing:	4,356,289.062
District:	Clay - Outside	Public Road Access:	Benedum Drive, Rt. 73/73	
Quadrangle:	Rosemont	Generally used farm name:	James D. Miller, et al	
Watershed:	Thomas Fork of Booth's Creek			

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

Address: 101 McQuiston Drive
Jackson Center, PA 16133
Facsimile:

RECEIVED
Office of Oil and Gas

DEC 27 2023

Oil and Gas Privacy Notice:

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

**WW-6A5 Additional Owners Listing
Country Pad**

Surface Owner – Well Pad

Michael D. Miller
67 County Line Road
Bridgeport, WV 26330

Lisa A. Consalvo, FKA Lisa A. Miller
1424 S. Skyview Drive
Elkins, WV 26241

RECEIVED
Office of Oil and Gas
DEC 27 2023
WV Department of
Environmental Protection



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

December 12, 2023

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 Country Well Pad, Harrison County
Country South 8MH Well Site**

Dear Mr. Martin,

This well site will be accessed from a DOH permit 04-2023-0667 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 1.16.

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,

Stephen G. Johnson, P.E.
Director of Operations

RECEIVED
Office of Oil and Gas

DEC 27 2023

WV Department of
Environmental Protection

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

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

Office of
DEC 27 2023
WV Department of
Environmental Protection

OPERATOR: Diversified Production, LLC WELL NO: Country South 8MH

PAD NAME: Country

REVIEWED BY: Amy L. Morris SIGNATURE: *Amy L. Morris*

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

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

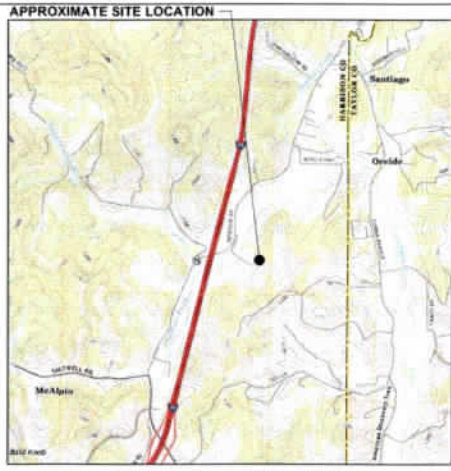
Surface Owner Waiver and Recorded with County Clerk, OR

DEP Variance and Permit Conditions

RECEIVED
Office of Oil and Gas

DEC 27 2023

WV Department of
Environmental Protection



COUNTRY WELL PAD ISSUED FOR PERMITTING PLANS T70-11330 HARRISON COUNTY, WEST VIRGINIA DECEMBER 2023

Disturbance Summary

Property Owner	(District - Tax Map - Parcel)	Access Road Disturbance (Ac.)	Well Pad Disturbance (Ac.)	Stockpile Disturbance (Ac.)	Total Disturbance (Ac.)
VINCENT BROTHERS RENEWALS LLC	(17-5-230-85-1)	2.07	0.00	0.00	2.07
MEYER JAMES D TRM	(17-5-230-81)	2.21	10.17	1.72	14.17
Total Disturbance		4.28	10.17	1.72	16.24

Clearing Summary

Property Owner	(District - Tax Map - Parcel)	Total Clearing (Ac.)
VINCENT BROTHERS RENEWALS LLC	(17-5-230-85-1)	0.28
MEYER JAMES D TRM	(17-5-230-81)	1.26
Total Clearing		1.54



**APPROVED
WVDEP OOG**
[Signature]
1/9/2024



DIVERSIFIED PRODUCTION, LLC

PHONE: (304) 543-1770
101 MACULISTON DRIVE
JACKSON CENTER, PA 16133

CONTACTS

CLIENT'S CONTACT
DIVERSIFIED PRODUCTION, LLC
ATTN: JIM BOWER
(412) 551-3085

BRIDGEPORT, WV OFFICE
800 WHITE OAK BLVD
BRIDGEPORT, WV 26330
(304) 624-4108
PO BOX 940

ENGINEER
THE THRASHER GROUP
ATTN: COLE ANDERSON, P.E.
(304) 624-4108

PLAN REPRODUCTION WARNING

THESE PLANS ARE INTENDED TO BE PLOTTED ON ANSI D (11" x 17") SHEETS FOR PRODUCTIONS. REFER TO GRAPHIC SCALES. THESE PLANS HAVE BEEN CREATED FOR FULL COLOR PLOTTING. ANY SET OF THESE PLANS THAT IS NOT PLOTTED IN FULL COLOR SHALL NOT BE CONSIDERED ADEQUATE FOR CONSTRUCTION PURPOSES. "WARNING" INFORMATION MAY BE LOST IN COPYING AND/OR SMALL SCALE PLOTTING.

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SHEET INDEX

SHEET	DESCRIPTION
2	COVER
3	GENERAL NOTES
4	QUANTITIES
5	SITE SAFETY MAP
6	EXISTING CONDITIONS
7	DEMOLITION PLAN
8	OVERALL SITE PLAN
9	OVERALL SITE PLAN WITH ORTHO
10	AUXILIARY AR STA. 104+00 - 109+00
11-12	DETAILED BRIDGE #1 PLAN & PROFILE
13	AUXILIARY ACCESS ROAD SECTIONS
14	DETAILED AUXILIARY PAD PLAN
15	AUXILIARY PAD BASELINE
16	AUXILIARY PAD SECTIONS
17	WELL PAD AR STA. 200+00 - 206+25
18-19	DETAILED BRIDGE #2 PLAN & PROFILE
20	WELL PAD ACCESS ROAD SECTIONS
21	DETAILED WELL PAD PLAN
22	WELL PAD BASELINE
23	WELL PAD SECTIONS
24	DETAILED STOCKPILE PLAN
25	STOCKPILE BASELINE
26	STOCKPILE SECTIONS
27	CUL-VERT PROFILES
28	OVERALL GEOMETRIC LAYOUT
29	AUXILIARY PAD GEOMETRIC LAYOUT
30	WELL PAD GEOMETRIC LAYOUT
31	GEOMETRIC LAYOUT TABLES
32-33	RECLAMATION PLAN
34-45	TYPICAL SECTIONS DETAILS

Country Well Pad Well Head Coordinates

Coordinate Label	7869	4869	6869	8869	10869
Latitude	N 39.333461°	N 39.333421°	N 39.333379°	N 39.333338°	N 39.333297°
Longitude	W 80.211635°	W 80.211555°	W 80.211475°	W 80.211395°	W 80.211315°
WV93-N Northing	311,605,979 ft	311,605,979 ft	311,605,979 ft	311,605,979 ft	311,599,979 ft
WV93-E Easting	1,767,292,863 ft	1,767,292,863 ft	1,767,292,863 ft	1,767,292,863 ft	1,767,292,863 ft
UTM93-17 Northing	4,356,208,202 m	4,356,208,202 m	4,356,208,202 m	4,356,208,202 m	4,356,208,202 m
UTM93-17 Easting	567,832,228 m	567,832,228 m	567,832,228 m	567,832,228 m	567,832,228 m

Country Auxiliary Pad Site Coordinates

Coordinate Label	Access Road Beginning	Auxiliary Pad Center	Auxiliary Pad NE Corner	Auxiliary Pad SE Corner	Auxiliary Pad SW Corner	Auxiliary Pad NW Corner
Latitude	N 39.355779°	N 39.354378°	N 39.354372°	N 39.354470°	N 39.354477°	N 39.353067°
Longitude	W 80.213815°	W 80.213329°	W 80.213277°	W 80.213272°	W 80.213272°	W 80.213517°
WV93-N Northing	312,499,3060 ft	312,081,2654 ft	312,057,9650 ft	312,054,3100 ft	312,054,3100 ft	312,045,1680 ft
WV93-E Easting	1,766,717,2340 ft	1,766,803,2713 ft	1,766,804,8260 ft	1,766,806,4120 ft	1,766,808,1960 ft	1,766,725,3480 ft
UTM93-17 Northing	4,356,553,711 m	4,356,420,720 m	4,356,420,535 m	4,356,376,335 m	4,356,408,573 m	4,356,474,833 m
UTM93-17 Easting	567,732,347 m	567,780,884 m	567,830,121 m	567,800,965 m	567,731,051 m	567,758,335 m

Country Well Pad Site Coordinates

Coordinate Label	Access Road Beginning	Well Pad Center	Well Pad NE Corner	Well Pad SE Corner	Well Pad SW Corner	Well Pad NW Corner
Latitude	N 39.354279°	N 39.353334°	N 39.353374°	N 39.352999°	N 39.352791°	N 39.351378°
Longitude	W 80.213319°	W 80.211727°	W 80.211506°	W 80.211995°	W 80.211528°	W 80.212207°
WV93-N Northing	311,952,1628 ft	311,908,2292 ft	311,739,8451 ft	311,489,5627 ft	311,406,6157 ft	311,760,0250 ft
WV93-E Easting	1,766,831,5067 ft	1,767,243,9076 ft	1,767,307,1098 ft	1,767,167,1203 ft	1,767,208,6511 ft	1,767,140,6401 ft
UTM93-17 Northing	4,356,347,429 m	4,356,347,429 m	4,356,347,429 m	4,356,347,429 m	4,356,347,429 m	4,356,347,429 m
UTM93-17 Easting	567,790,139 m	567,917,585 m	567,936,109 m	567,894,779 m	567,835,135 m	567,888,394 m

REVISION NUMBER	REVISED SHEETS	BY	DATE	DESCRIPTION
001	1	OMP	10.23.2023	REVISED WELL HEAD COORDINATES DUE TO ROUNDING ERROR
002	ALL SHEETS	OMP	11.21.2023	REVISED SOUTH PAD LOCATION
003	5,7,8,9,13,16,20,45	OMP	12.30.2023	ADDRESSED WVDEP OFFICE OF OIL AND GAS COMMENTS

WELL RESTRICTIONS CHECKLIST (HORIZONTAL 6A WELLS)	
AT LEAST 100 FEET FROM PAD AND LOD (INCLUDING ANY E&E CONTROL, FEATURE TO ANY PERENNIAL STREAM, LAKE, POND, RESERVOIR OR WETLAND)	YES
AT LEAST 100 FEET FROM PAD AND LOD (INCLUDING ANY E&E CONTROL, FEATURE TO ANY NATURALLY PRODUCING TRIPLE STRAIN)	YES
AT LEAST 100 FEET FROM PAD AND LOD (INCLUDING ANY E&E CONTROL, FEATURE TO ANY GROUND WATER INTAKE OR PUBLIC WATER SUPPLY)	YES
AT LEAST 100 FEET FROM ANY EXISTING WATER WELL OR DEVELOPED SPRING TO WELL BEING DRILLED	YES
AT LEAST 425 FEET FROM AN OCCUPIED DWELLING STRUCTURE TO CENTER OF PAD	YES
AT LEAST 425 FEET FROM AGRICULTURAL BUILDINGS LARGER THAN 2000 SQUARE FEET TO THE CENTER OF PAD	YES

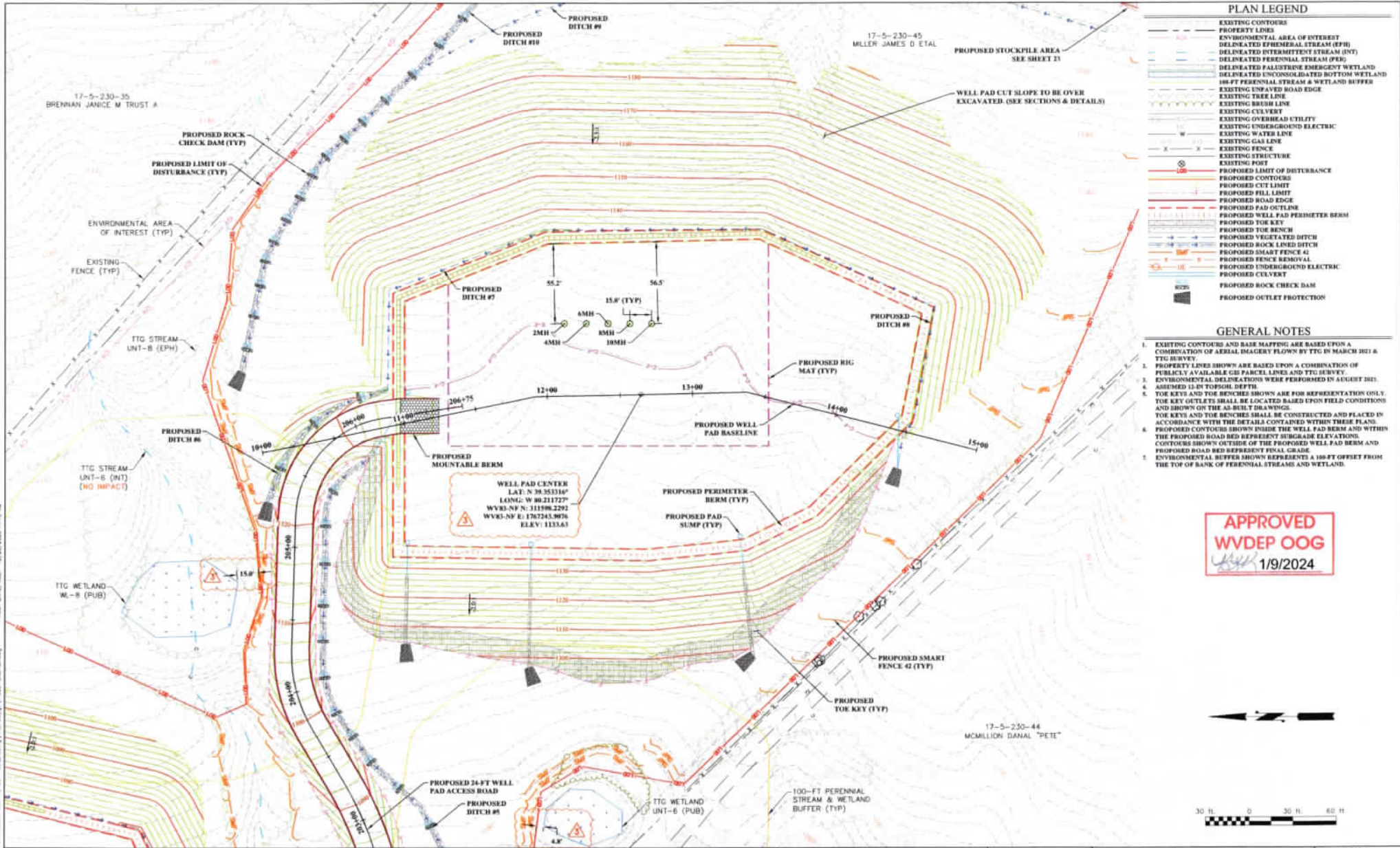


CONTRACTOR SHALL NOTIFY THE ONE-CALL SYSTEM OF THE INTENDED EXCAVATION OR DEMOLITION NOT LESS THAN FORTY-EIGHT (48) HOURS, EXCLUDING SATURDAYS, SUNDAYS AND LEGAL, FEDERAL, OR STATE HOLIDAYS, NOR MORE THAN TEN (10) WORK DAYS PRIOR TO THE BEGINNING OF SUCH WORK.
CALL 811.CORP@811-IN.YOUR.STATE



JAMES C. ANDERSON, WV P.E. #25316

<input checked="" type="checkbox"/> ISSUED FOR PERMITS	DATE: 10.18.2023	BY: JCA
<input type="checkbox"/> ISSUED FOR BID	DATE: _____	BY: _____
<input type="checkbox"/> ISSUED FOR CONSTRUCTION	DATE: _____	BY: _____



PLAN LEGEND

- EXISTING CONTOURS
- PROPERTY LINES
- ENVIRONMENTAL AREA OF INTEREST
- DELINEATED EPHEMERAL STREAM (EPH)
- DELINEATED INTERMITTENT STREAM (INT)
- DELINEATED PERENNIAL STREAM (PER)
- DELINEATED PALUDINE EMERGENT WETLAND
- DELINEATED UNCONSOLIDATED BOTTOM WETLAND
- 100 FT PERENNIAL STREAM & WETLAND BUFFER
- EXISTING TPAVED ROAD EDGE
- EXISTING TREE LINE
- EXISTING BRUSH LINE
- EXISTING CULVERT
- EXISTING OVERHEAD UTILITY
- EXISTING UNDERGROUND ELECTRIC
- EXISTING WATER LINE
- EXISTING GAS LINE
- EXISTING FENCE
- EXISTING STRUCTURE
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED CONTOURS
- PROPOSED CUT LIMIT
- PROPOSED FILL LIMIT
- PROPOSED ROAD EDGE
- PROPOSED PAD OUTLINE
- PROPOSED WELL PAD PERIMETER BERM
- PROPOSED TOE KEY
- PROPOSED TOE BENCH
- PROPOSED VEGETATED DITCH
- PROPOSED ROCK LINED DITCH
- PROPOSED SMART FENCE 42
- PROPOSED FENCE REMOVAL
- PROPOSED UNDERGROUND ELECTRIC
- PROPOSED ROCK CHECK DAM
- PROPOSED OUTLET PROTECTION

GENERAL NOTES

1. EXISTING CONTOURS AND BASE MAPPING ARE BASED UPON A COMBINATION OF AERIAL IMAGERY FLOWN BY TTC IN MARCH 2021 & TTC SURVEY.
2. PROPERTY LINES SHOWN ARE BASED UPON A COMBINATION OF PUBLICLY AVAILABLE GIS PARCEL LINES AND TTC SURVEY.
3. ENVIRONMENTAL DELINEATIONS WERE PERFORMED IN AUGUST 2021.
4. ADJUSTED 1.5m TOPSOIL DEPTH.
5. TOE KEYS AND THE BENCHES SHOWN ARE FOR REPRESENTATION ONLY. THE KEY OUTLETS SHALL BE LOCATED BASED UPON FIELD CONDITIONS AND SHOWN ON THE AS-BUILT DRAWINGS. THE KEYS AND THE BENCHES SHALL BE CONSTRUCTED AND PLACED IN ACCORDANCE WITH THE DETAILS CONTAINED WITHIN THESE PLANS.
6. PROPOSED CONTOURS SHOWN INSIDE THE WELL PAD BERM AND WITHIN THE PROPOSED ROAD BED REPRESENT SUBGRADE ELEVATIONS. CONTOURS SHOWN OUTSIDE OF THE PROPOSED WELL PAD BERM AND PROPOSED ROAD BED REPRESENT FINAL GRADE.
7. ENVIRONMENTAL BUFFER SHOWN REPRESENTS A 100-FT BUFFER FROM THE TOP OF BANK OF PERENNIAL STREAMS AND WETLAND.

APPROVED
WVDEP OOG
1/9/2024

DATE PLO: 11/20/2023 11:10 AM
 DATE DATE/TIME: 11/20/2023 11:10 AM
 FILE: \\11330-11330-001\Drawings\Well_Pad\Drawings\Well_Pad\Drawings\11330-11330.dwg

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NO.	DATE	BY	DATE	ISSUED FOR
001	11/20/2023	JCA		ISSUED FOR PERMITTING
002	11/20/2023	JCA		ISSUED FOR PERMITTING
003	11/20/2023	JCA		ISSUED FOR PERMITTING
004	11/20/2023	JCA		ISSUED FOR PERMITTING

Diversified Production LLC

SCALE: 1"=40'

DRAWN: SMP DATE: 11/20/2023

CHECKED: JCA DATE: 11/20/2023

APPROVED: DATE:

SURVEY DATE:

SURVEY BY:

FIELD BOOK NO.:

THRASHER

THE THRASHER GROUP, INC.

ENVIRONMENTAL - CONSULTING - FIELD SERVICES

800 WEST MAIN STREET, BRIDGEPORT, WV 26335

PHONE (304) 624-4100 FAX (304) 624-1951

PHASE No.	
CONTRACT No.	
PROJECT No.	170-11330

DIVERSIFIED PRODUCTION, LLC
 ISSUED FOR PERMITTING PLANS FOR THE
COUNTRY WELL PAD
 HARRISON COUNTY, WV
 DETAILED WELL PAD PLAN

SHEET No.
20