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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Monday, January 29, 2024  
WELL WORK PERMIT  
Horizontal 6A / New Drill

DIVERSIFIED PRODUCTION LLC  
101 MCQUISTON DRIVE

JACKSON CENTER, PA 16133

Re: Permit approval for Country South 4MH  
47-033-06025-00-00

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

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

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

A blue ink signature of James A. Martin.

James A. Martin  
Chief

Operator's Well Number: Country South 4MH  
Farm Name: James D Miller Et Al  
U.S. WELL NUMBER: 47-033-06025-00-00  
Horizontal 6A New Drill  
Date Issued: 1/29/2024

Promoting a healthy environment.

02/02/2024



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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
Fax: (304) 926-0452

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.

02/02/2024

## CONCLUSIONS OF LAW

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

## ORDER

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:

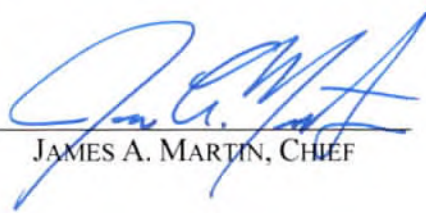
- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24”) in height;
- b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment 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:



A handwritten signature in blue ink, appearing to read 'J. A. Martin', is written over a horizontal line.

JAMES A. MARTIN, CHIEF



November 28, 2023

Charles T. Brewer  
Assistant Chief – Office of Oil and Gas  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304

RE: Sound and Light Reduction Measures for Country Pad

Taylor,

On behalf of Diversified Production, LLC and Long Ridge West Virginia, Aux Energy is writing to inform you about the proactive measures that our company will be undertaking to mitigate potential noise and light associated with operations.

As a responsible company, we acknowledge the importance of being considerate towards the communities in which we operate. In this regard, we will be implementing sound wall mitigation and crown lights on our rigs to reduce noise levels and light.

On the auxiliary pad, we will be installing a sound wall on the South side of the pad by the house. On the well pad, we will be installing the wall on the West side of the pad. These walls will be constructed using high-quality materials specially designed for noise absorption and reflection. The sound wall plan is subject to change based on actual operations.

To address the concerns related to light, we will be equipping our drilling rig with crown lights that are designed to direct light onto the wellpad and reduce the number of light plants used. The implementation of crown lights will enable us to maintain a safe working environment while minimizing the impact on the surrounding area.

We will also make every effort to place the production equipment on the auxiliary pad as far as possible from the residence that is located next to the pad.

We are committed to complying with all applicable regulations and best industry practices to safeguard the environmental and social well-being of the regions where we operate. Our goal is to establish a mutual understanding and cooperation with the community.

Thank you for your attention to this matter. Should you have any further questions or require additional information, please do not hesitate to contact me.

Very truly yours,

Chad Perkins  
President, Aux Energy  
Project Manager for Diversified Production and Long Ridge West Virginia

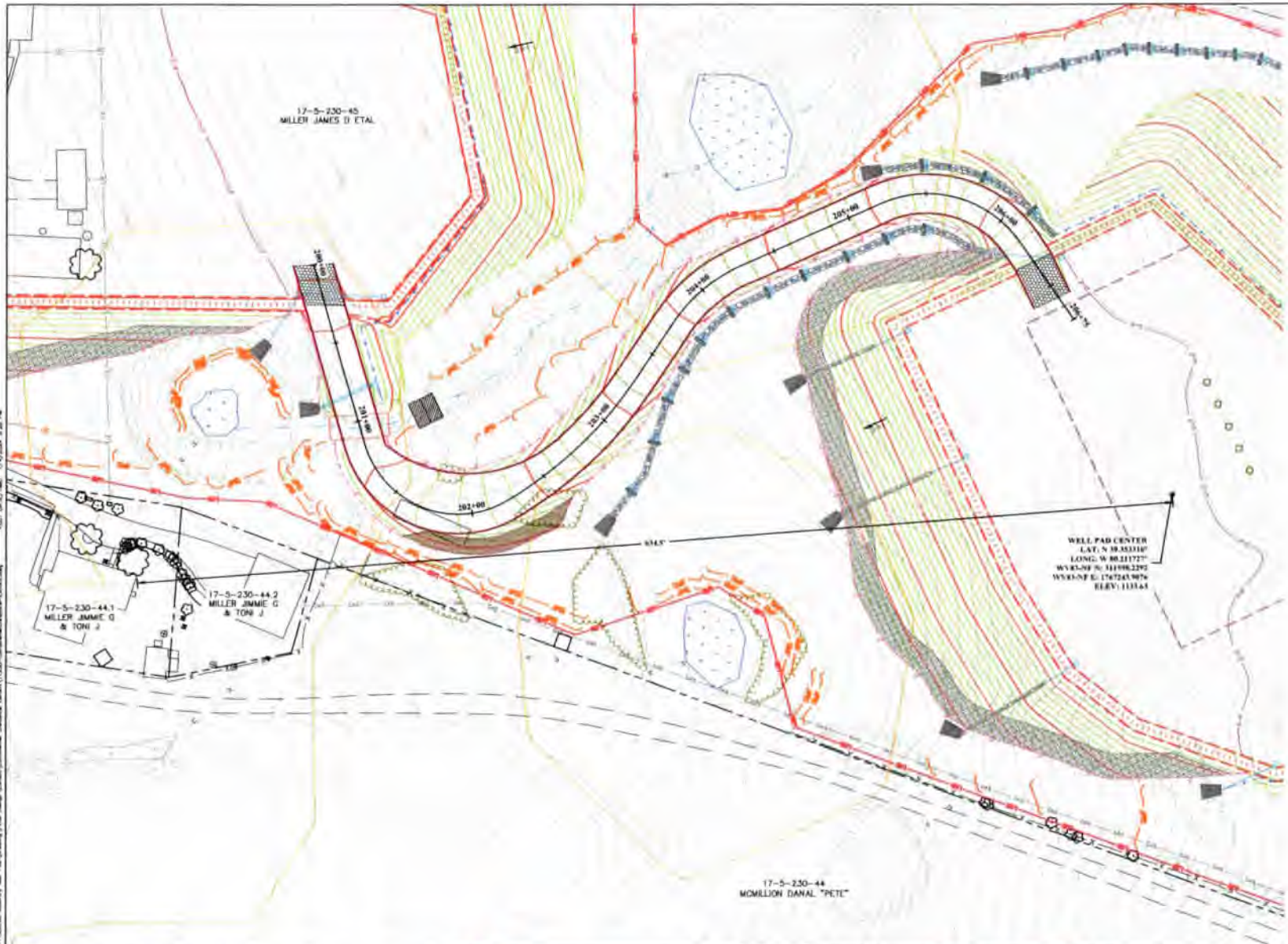
RECEIVED  
Office of Oil and Gas

DEC 01 2023

WV Department of  
Environmental Protection

02/02/2024





DATE PLO. & LPTD: 11/13/2013  
 DATE OF SURVEY: 11/20/2013  
 DRAWN BY: JCA  
 CHECKED BY: JCA  
 APPROVED BY: JCA  
 SURVEY DATE: 11/20/2013  
 SURVEY BY: JCA  
 FIELD BOOK NO:



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DATE	BY	DATE	REVISION
11/20/2013	JCA	11/20/2013	ISSUED FOR PERMITTING
11/20/2013	JCA	11/20/2013	REVISED SOUTH PAD LOCATION
11/20/2013	JCA	11/20/2013	ADDED NORTH PAD OFFICE OF OIL AND GAS COMMUNITY

Diversified Production LLC

SCALE:	DATE:
DRAWN: JCA	DATE: 11/20/2013
CHECKED: JCA	DATE: 11/20/2013
APPROVED: JCA	DATE:
SURVEY DATE:	
SURVEY BY:	
FIELD BOOK NO:	

THRASHER  
THE THRASHER GROUP, INC.  
OIL • ENVIRONMENTAL • CONSULTING • FIELD SERVICES  
400 WHITE OAKS BOULEVARD, ANDERSON, WV 25810  
PHONE: (204) 891-4100 • FAX: (204) 891-1000

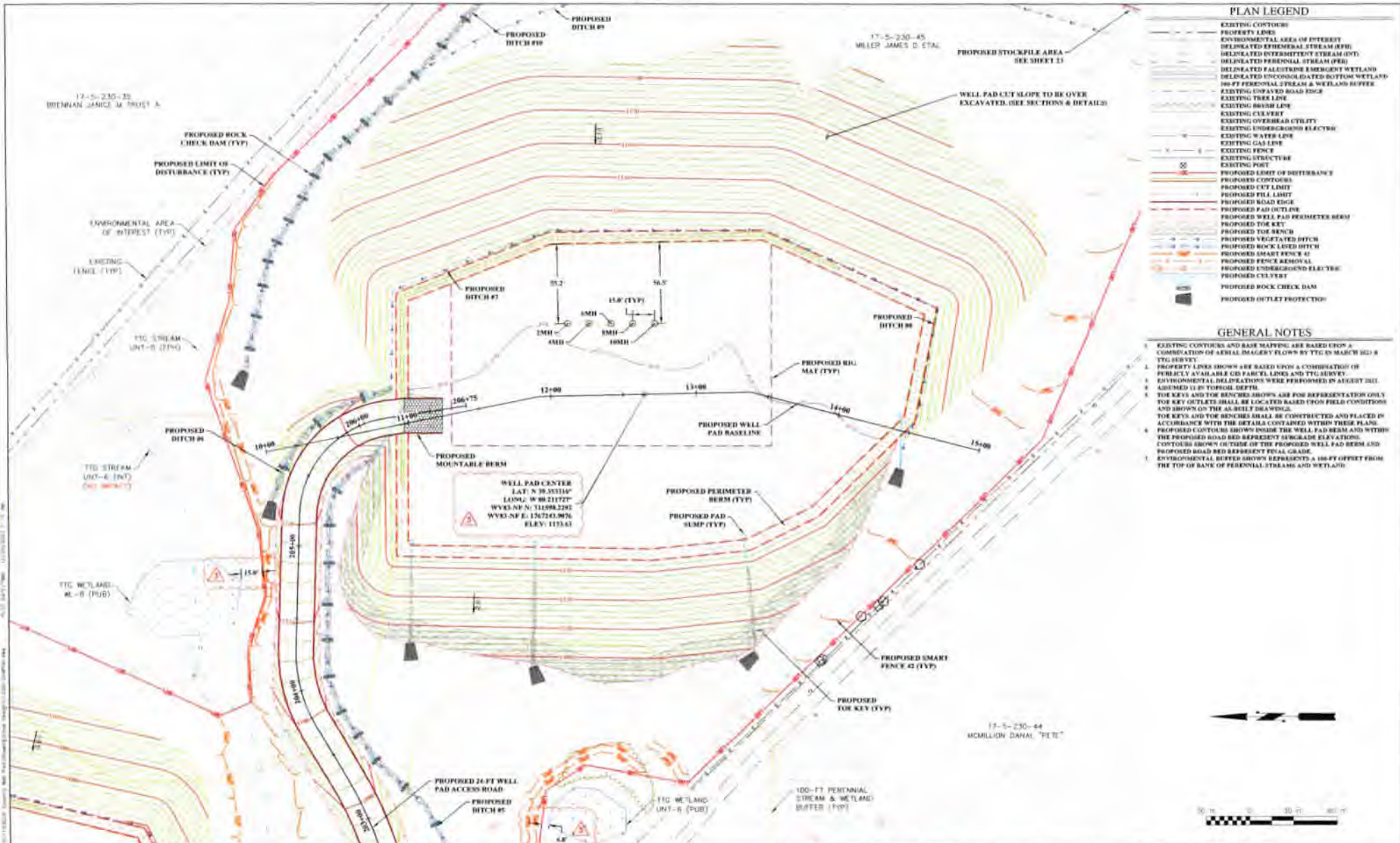
PHASE NO.	
CONTRACT NO.	
PROJECT NO.	170-11330

DIVERSIFIED PRODUCTION, LLC  
ISSUED FOR PERMITTING PLANS FOR THE  
COUNTRY WELL PAD  
HARRISON COUNTY, WV  
LANDOWNER DISTANCE EXHIBIT

SHEET No.  
**EX2**



Attachment 1



**PLAN LEGEND**

[Symbol]	EXISTING CONTOURS
[Symbol]	PROPERTY LINES
[Symbol]	ENVIRONMENTAL AREA OF INTEREST
[Symbol]	DELINEATED EPHEMERAL STREAM (EES)
[Symbol]	DELINEATED INTERMITTENT STREAM (ITS)
[Symbol]	DELINEATED PERENNIAL STREAM (PRS)
[Symbol]	DELINEATED FALLOUT/EMERGENCY WETLAND
[Symbol]	DELINEATED UNCONSOLIDATED BOTTOM WETLAND
[Symbol]	100-FT PERENNIAL STREAM & WETLAND BUFFER
[Symbol]	EXISTING OPENED ROAD EDGE
[Symbol]	EXISTING TRAIL LINE
[Symbol]	EXISTING BRUSH LINE
[Symbol]	EXISTING CULVERT
[Symbol]	EXISTING OVERHEAD UTILITY
[Symbol]	EXISTING UNDERGROUND ELECTRIC
[Symbol]	EXISTING WATER LINE
[Symbol]	EXISTING GAS LINE
[Symbol]	EXISTING FENCE
[Symbol]	EXISTING STRUCTURE
[Symbol]	EXISTING POOT
[Symbol]	PROPOSED LIMIT OF DISTURBANCE
[Symbol]	PROPOSED CONTOURS
[Symbol]	PROPOSED CUT LIMIT
[Symbol]	PROPOSED FILL LIMIT
[Symbol]	PROPOSED ROAD EDGE
[Symbol]	PROPOSED PAD OUTLINE
[Symbol]	PROPOSED WELL PAD PERIMETER BERM
[Symbol]	PROPOSED THE KEY
[Symbol]	PROPOSED TOE BENCH
[Symbol]	PROPOSED VEGETATED DITCH
[Symbol]	PROPOSED ROCK LINED DITCH
[Symbol]	PROPOSED SMART FENCE #1
[Symbol]	PROPOSED FENCE REMOVAL
[Symbol]	PROPOSED UNDERGROUND ELECTRIC
[Symbol]	PROPOSED CULVERT
[Symbol]	PROPOSED ROCK CHECK DAM
[Symbol]	PROPOSED OUTLET PROTECTION

- GENERAL NOTES**
- EXISTING CONTOURS AND BASE MAPPING ARE BASED UPON A COMBINATION OF AERIAL IMAGERY FLOWN BY TIG IN MARCH 2012 & TIG SURVEY.
  - PROPERTY LINES SHOWN ARE BASED UPON A COMBINATION OF PUBLICLY AVAILABLE CED FILED LINES AND TIG SURVEY.
  - ENVIRONMENTAL DELINEATIONS WERE PERFORMED IN AUGUST 2011, ASSUMED 1' TO TOPSOIL DEPTH.
  - THE KEYS AND TOE BENCHES SHOWN ARE FOR REPRESENTATION ONLY. THE KEY OUTLETS SHALL BE LOCATED BASED UPON FIELD CONDITIONS AND SHOWN ON THE AS-BUILT DRAWINGS.
  - PROPOSED CONTOURS SHOWN INSIDE THE WELL PAD BERM AND WITHIN THE PROPOSED ROAD BED REPRESENT SURFACE ELEVATIONS.
  - CONTOURS SHOWN OUTSIDE OF THE PROPOSED WELL PAD BERM AND PROPOSED ROAD BED REPRESENT TYPICAL GRADE.
  - ENVIRONMENTAL BUFFER SHOWN REPRESENTS A 100-FT OFFSET FROM THE TOP OF BANK OF PERENNIAL STREAMS AND WETLAND.

DATE	DESCRIPTION	BY	CHECKED
11/20/2013	ISSUED FOR PERMITTING	JL	JL
11/20/2013	REVISIONS TO THE LOCATION	JL	JL
11/20/2013	REVISIONS TO THE LOCATION	JL	JL

**Diversified Production LLC**

WELL PAD CENTER  
 LAT: N 38.55314°  
 LONG: W 88.21172°  
 WYKS-NF-N: 112598.2295  
 WYKS-NF-E: 137543.2976  
 ELEV: 1173.61

**THRASHER**  
 THE THRASHER GROUP, INC.  
 2000 WASHINGTON AVENUE, SUITE 100, P.O. BOX 2000  
 ANDERSON, SOUTH CAROLINA 29505-0000  
 PHONE: 803.734.4100 FAX: 803.734.4100

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

PROJECT NO: T70-11.530

**20**



**PLAN LEGEND**

- EXISTING CONTOUR
- PROPERTY LINE
- ENVIRONMENTAL AREA OF INTEREST
- DELINEATED PERENNIAL STREAM (EPM)
- DELINEATED INTERMITTENT STREAM (EPM)
- DELINEATED PERENNIAL STREAM (PEM)
- DELINEATED FLOODPLAIN EMERGENT WETLAND
- DELINEATED UNCONSOLIDATED BOTTOM WETLAND
- 100-FT PERENNIAL STREAM & WETLAND BUFFER
- EXISTING UNPAVED ROAD EDGE
- EXISTING TREE LINE
- EXISTING DITCH LINE
- EXISTING CULVERT
- EXISTING OVERHEAD UTILITY
- EXISTING UNDERGROUND ELECTRIC
- EXISTING WATER LINE
- EXISTING GAS LINE
- EXISTING FENCE
- EXISTING STRUCTURE
- EXISTING POLE
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED CONTOUR
- PROPOSED CFT LIMIT
- PROPOSED BOUNDARY
- PROPOSED WELL PAD PERMITTED BEAM
- PROPOSED TIE KEY
- PROPOSED TIE BENCH
- PROPOSED VEGETATED DITCH
- PROPOSED ROCK LINED DITCH
- PROPOSED SMART FENCE #1
- PROPOSED FENCE REMOVAL
- PROPOSED UNDERGROUND ELECTRIC
- PROPOSED CULVERT
- PROPOSED ROCK CHECK DAM
- PROPOSED OUTLET PROTECTION

- GENERAL NOTES**
1. EXISTING CONTOURS AND BASE MAPPING ARE BASED UPON A COMBINATION OF AERIAL IMAGERY FLAWN BY TTC IN MARCH 2022 & 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 2022.
  4. ASSUMED 1:4 IN TOPSOIL DEPTH.
  5. FOR KEYS AND TIE BENCHES SHOWN ARE FOR REPRESENTATION ONLY. FOR KEY OUTLETS SHALL BE LOCATED BASED UPON FIELD CONDITIONS AND SHOWN ON THE AS-BUILT DRAWINGS.
  6. THE KEYS AND TIE BENCHES SHALL BE CONSTRUCTED AND PLACED IN ACCORDANCE WITH THE DETAILS CONTAINED WITHIN THESE PLANS.
  7. PROPOSED CONTOURS SHOWN INSIDE THE WELL PAD BEAM AND WITHIN THE PROPOSED ROAD BED REPRESENT SUBGRADE ELEVATIONS.
  8. CONTOURS SHOWN OUTSIDE OF THE PROPOSED WELL PAD BEAM AND PROPOSED ROAD BED REPRESENT FINAL GRADE.
  9. ENVIRONMENTAL BUFFER SHOWN REPRESENTS A 100-FT OFFSET FROM THE TOP OF BANK OF PERENNIAL STREAMS AND WETLANDS.

DATE	DESCRIPTION
17-5-230-33	MEMILLON DANAL "PETE"
17-5-230-35	MILLER JAMIE M TRUST #
17-5-230-41	MILLER JAMIE G & TORI J
17-5-230-44	MEMILLON DANAL "PETE"
17-5-230-45	MILLER JAMIE E ETAL
17-5-230-46	MILLER JAMIE G & TORI J
17-5-230-47	MILLER JAMIE G & TORI J
17-5-230-48	MILLER JAMIE G & TORI J
17-5-230-49	MILLER JAMIE G & TORI J
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17-5-230-98	MILLER JAMIE G & TORI J
17-5-230-99	MILLER JAMIE G & TORI J
17-5-230-100	MILLER JAMIE G & TORI J

**Diversified Production LLC**

**THRASHER**  
THE THRASHER GROUP INC.  
1700 W. UNIVERSITY AVENUE, SUITE 1000, DENVER, CO 80202  
PHONE: (303) 733-4100 FAX: (303) 733-4101

PROJECT NO.	170-11330
DATE	17-5-230-33
DESCRIPTION	MEMILLON DANAL "PETE"
CLIENT	DIVERSIFIED PRODUCTION, LLC
DESIGNER	THRASHER GROUP INC.
SCALE	AS SHOWN
DATE	17-5-230-33

DIVERSIFIED PRODUCTION, LLC  
ISSUED FOR PERMITTING PLANS FOR THE  
COUNTRY WELL PAD  
HARRISON COUNTY, WY  
OVERALL SITE PLAN

11/3/14

Wetland and Perennial Stream Waiver Request

API Number: \_\_\_\_\_

Operator's Well Number: Country South 2MH

Well Operator: Diversified Production, LLC

Well Number: Country South 2MH

Well Pad Name: Country Well Pad

County, District, Quadrangle of Well Location: Harrison County - District 5 - Rosemont Quadrangle

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

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

§22-6A-12(b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows:

- (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir.
- (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake.
- (3) For a groundwater source, the distance shall be measured from the wellhead or spring.

The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary.

§22-6A-12(c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section.

RECEIVED  
Office of Oil and Gas

DEC 01 2023

WV Department of  
Environmental Protection

02/02/2024

11/3/14

Wetland and Perennial Stream Waiver Request

API Number: \_\_\_\_\_

Operator's Well Number: Country South 2MH

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

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

The project site is located in Harrison County, West Virginia, with approximate central coordinates N 39.353990° W 80.212583°. The project will be accessed via an access road originating from Benedum Drive (County Route 73/73), at approximate coordinates N 39.356558° W 80.214840°. The proposed project area encompasses one perennial stream and several wetlands. The following is a list of identified water bodies, including their identifying names and types, all of which have a 100' buffer within the Limit of Disturbance (LOD).

TTG Stream Thomas Fork (PER), TTG Wetland WL-1 (PEM), TTG Wetland WL-6 (PUB), TTG Wetland WL-8 (PUB), TTG Wetland WL-9 (PUB), TTG Wetland WL-10 (PEM)

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

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

The development of a natural gas well site presents a valuable economic opportunity for the community and the energy sector. Failure to implement the project would result in the loss of potential jobs, revenue, and energy production. The project has been designed with environmental conservation in mind, incorporating open-bottom box culverts for no impact stream crossings and minimizing the size of the well pad to the maximum extent practicable for drilling operations. In evaluating potential location alternatives, various sites were considered. However, the chosen site was selected based on a comprehensive evaluation of factors, including proximity to resources, geologic suitability, access to infrastructure, and minimal environmental impact. Given the extensive presence of wetlands in the vicinity, adhering to a 100-foot buffer around each individual wetland would not allow for safe or effective operations to occur. The project design prioritizes the avoidance of all impacts to wetlands and streams.

RECEIVED  
Office of Oil and Gas

DEC 01 2023

WV Department of  
Environmental Protection  
02/02/2024

11/3/14

Wetland and Perennial Stream Waiver Request

API Number: \_\_\_\_\_

Operator's Well Number: Country South 2MH

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

To ensure the safeguarding of aquatic resources, a comprehensive set of measures, facilities, and practices will be employed. In addition to standard best management practices, Smart Fence 42 will be used as perimeter control, and will be doubled to protect perennial streams and wetlands. Check dams will be placed strategically along the construction and access roads to slow the flow of storm water, allowing sediment to settle before reaching water bodies. Diversion channels will be constructed to divert clean storm water runoff away from sensitive areas, reducing the potential for erosion and sediment transport. Exposed soils within the construction area will be stabilized using erosion control blankets, native vegetation, tracking, smooth drum rolling or other suitable methods to prevent soil erosion. Erosion and sediment control measures will be inspected at minimum, once every 7 calendar days and within 24 hours after any storm event greater than .5" per 24-hour period. Any required repairs or maintenance will be made immediately. Perimeter berms and pad sumps with gate valves will be utilized on the Auxiliary Pad and Well Pad to prevent spills or contaminated runoff from leaving the site.

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

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

As shown on the Erosion and Sediment control plans and mentioned in the above section, Smart Fence 42 will be double layered in areas within the 100-foot restriction buffer as an added measure of protection for the aquatic resources. Additionally, Perimeter berms and sumps with gate valves shall be utilized on both the Auxiliary Pad and the Well Pad to prevent any spills or contaminated runoff from impacting the aquatic features. The Limit of Disturbance (LOD) and boundaries of wetlands and streams within the LOD will be clearly marked to prevent inadvertent encroachment.

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# 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

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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](mailto:DEPOOGNotify@wv.gov).

02/02/2024

## 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.

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 4MH 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: 7,610'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 24,152'

11) Proposed Horizontal Leg Length: 16,162'

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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*Ky Willett*  
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18) CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	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'	1494ft^3/CTS
Intermediate 2	9.625"	New	J55	36#	2,750'	2,750'	861ft^3/CTS
Production	5.5"	New	P110	20#	24,152'	24,152'	4,143ft^3/6,069ft
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"	2250	530	Class A	1.19
*Intermediate 1	13.375"	17.5"	0.38"	2740	1,750	Class A	1.19 - 1.88
Intermediate 2	9.625"	12.25"	0.352"	3520	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	6,278	N/A	N/A
Liners	N/A	N/A	N/A	N/A	N/A	N/A	N/A

\*Intermediate 1- storage field interval

PACKERS

Kind:				
Sizes:				
Depths Set:				

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*Ry Willett*  
12/13/23

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 7,069' and continue to drill the curve and horizontal leg per the proposed plan in the Marcellus formation to an estimated horizontal length of 16,162' (24,152' 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

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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

25) Proposed borehole conditioning procedures:

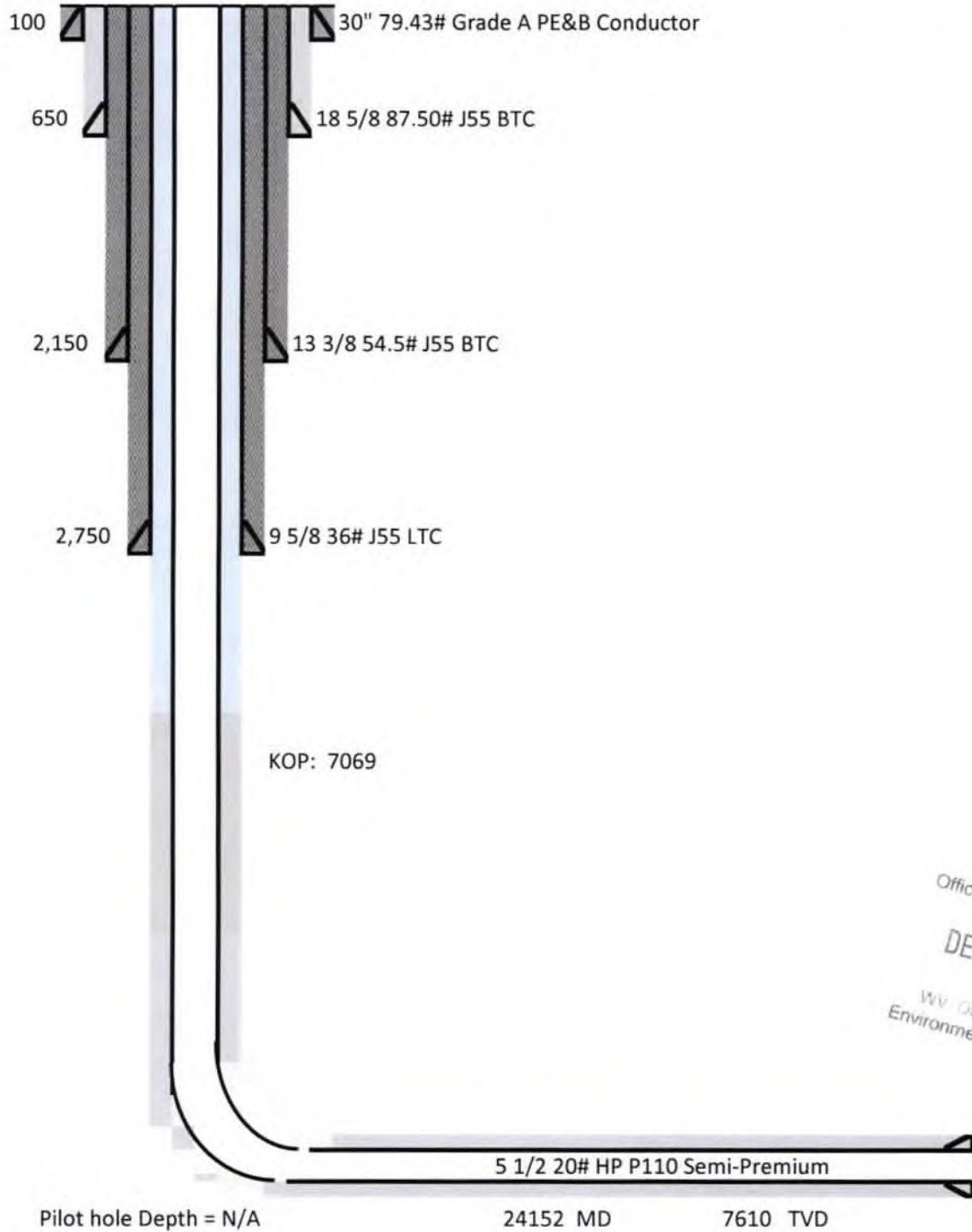
Conductor: Hole is auger drilled: No conditioning required.  
Fresh Water: Condition hole with air or FW at TD until visibly clean; pumping FW sweeps if needed, run casing, circulate and clear 1.5x pipe volume with fresh water before cementing.  
Mine: N/A  
Intermediate 1: Condition hole with air or 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.

\*Note: Attach additional sheets as needed.

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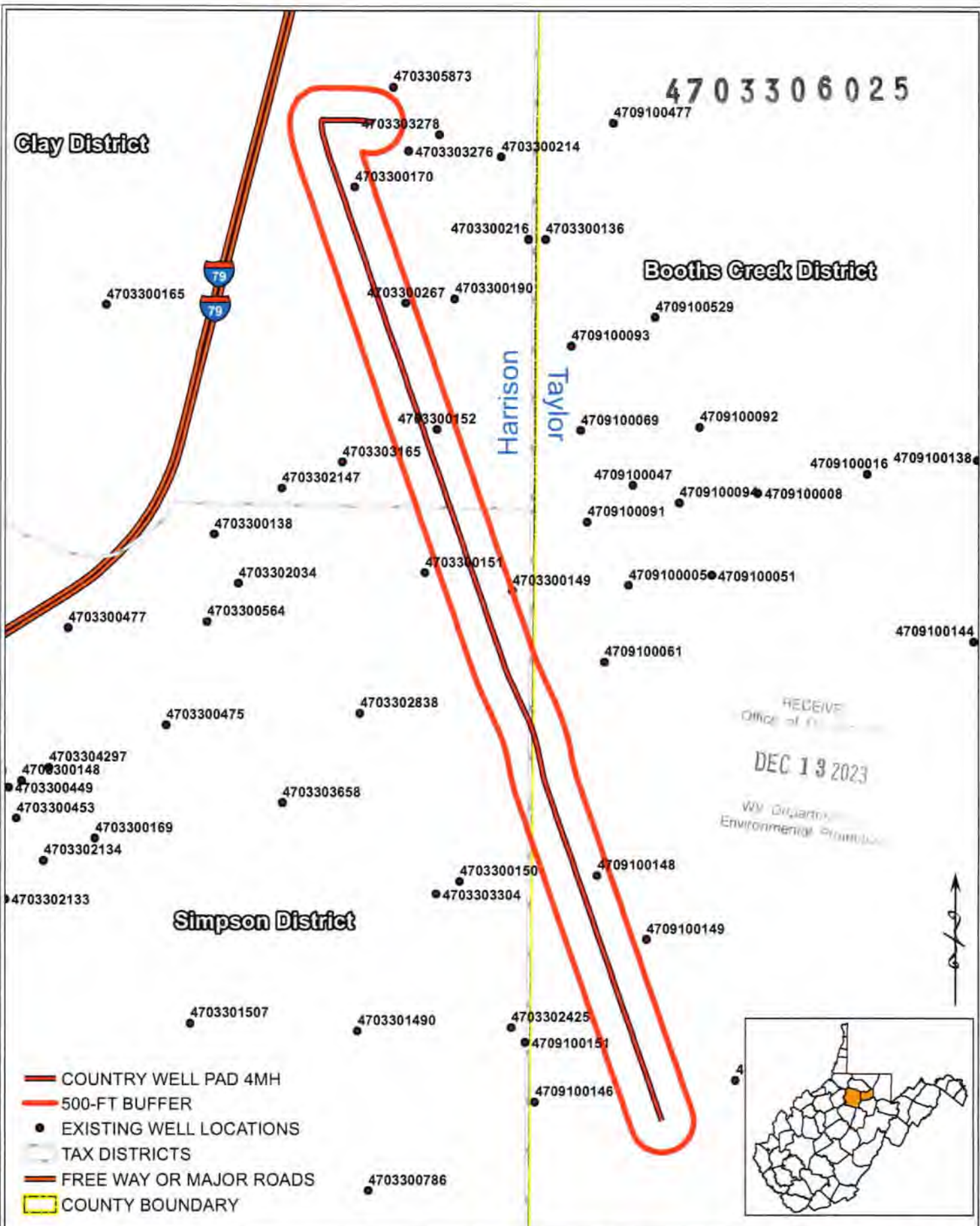
Country South 4MH  
Harrison County, West Virginia  
Well Schematic



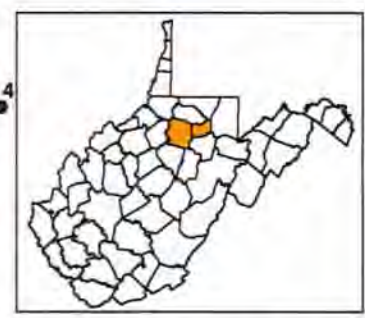
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Document Path: R:\070170-11330-00\_Country Well Pad\GIS\MXD\Site Safety Plan\COUNTRY Well Pad-4MH-WellBores.mxd  
By: dptares



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- COUNTRY WELL PAD 4MH
- 500-FT BUFFER
- EXISTING WELL LOCATIONS
- TAX DISTRICTS
- FREE WAY OR MAJOR ROADS
- COUNTY BOUNDARY

### Country Well Pad: 4MH

Clay/Booth's Creek/Simpson Districts  
Harrison & Taylor Counties - West Virginia

**THRASHER**  
02/02/2024

1 inch = 2,000 feet

12/12/2023

**Area of Review for Communication Purposes Report  
Country South 4MH**

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
47-033-00170	Eastern Gas Transmission and Storage	2,041'	Gordon	n/a	No.	Plugged vertical well.
47-033-00267	Eastern Gas Transmission and Storage	2,032'	Gordon	n/a	No.	active vertical storage well.
47-033-00152	Eastern Gas Transmission and Storage	1,908'	Hampshire Group	n/a	No.	Plugged vertical well.
47-033-00149	Eastern Gas Transmission and Storage	1,636'	Fifty-Foot	n/a	No.	active vertical storage well.
47-091-00148	Eastern Gas Transmission and Storage	2,196'	Fifth	n/a	No.	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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SECTION DETAILS										
MD	INC	Azi	TVD	-N-E	+E-W	Dleg	TFace	VGain	Annotation	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP Begin 1.50' Build	
1362.00	0.00	0.00	1362.00	0.00	0.00	0.00	0.00	0.00	Hold 9.00' Inc	
1682.33	3.00	280.20	1682.91	2.52	-14.31	1.50	280.20	-7.08	Begin 2.00' Build	
2059.84	8.00	290.90	2050.70	23.28	-132.10	0.00	0.00	48.13	Hold 9.22' Tangent	
3270.44	8.22	270.74	3266.20	26.17	-138.90	2.00	18.84	-79.90	Begin 10.00' Build/Turn	
7086.11	9.22	270.74	7012.74	22.98	-788.77	0.00	0.00	-281.40	Hold 89.00' Lateral	
7995.20	89.00	160.95	7812.00	-52.70	-867.96	10.00	100.70	280.78	Begin 2.00' Turn	
8	16400.20	89.00	160.95	7798.26	-890.97	2105.98	0.00	0.00	8779.48	Begin 2.00' Turn
9	16782.70	89.00	159.50	7782.10	-883.09	2208.87	2.00	-80.20	909.89	Begin 2.00' Turn
10	17262.78	89.00	158.50	7773.98	-878.74	2465.79	0.00	0.00	9848.88	Continue 2.00' Turn
11	18124.08	88.99	170.70	7187.01	-1028.94	2678.28	2.00	80.11	10401.12	Continue 2.00' Turn
12	18612.45	88.00	180.95	7785.59	-1058.80	2790.90	2.00	-80.22	10883.07	Hold 180.95' Az
13	24152.45	88.00	180.95	7882.28	-1074.60	4860.79	0.00	0.00	19432.23	PBHL - 24152.45 Md

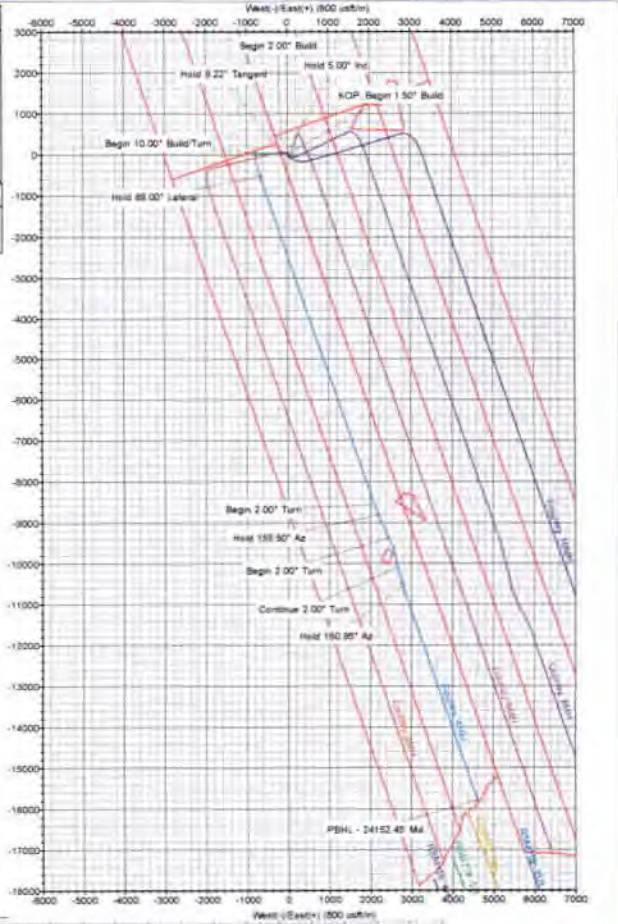
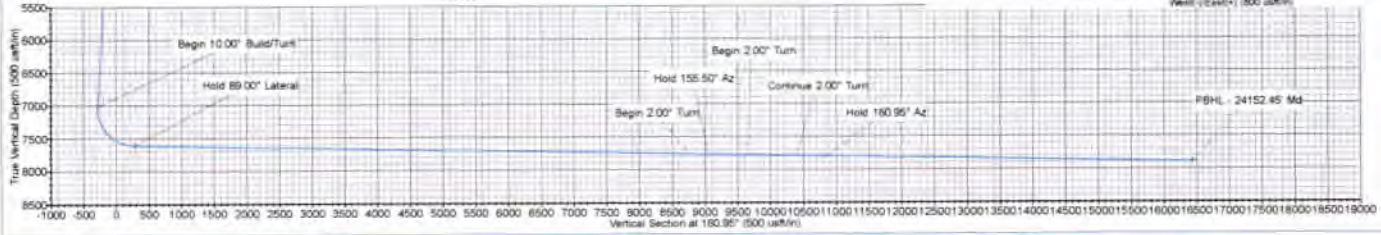
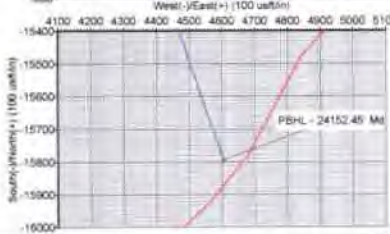
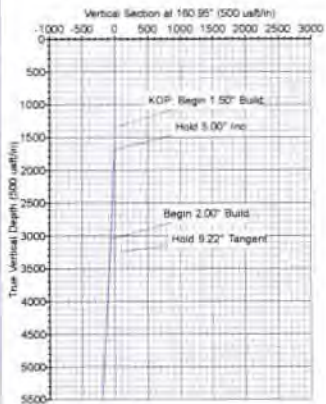
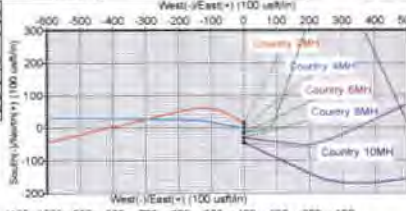
DESIGN TARGET DETAILS

Name	TVD	-N-E	+E-W	Neuring	Existing	Latitude	Longitude
AP #8 - Country 4MH	7794.70	-10810.22	2774.04	301129.98	1730271.84	38.3246250	-80.2014372
LP #8 - Country 4MH	7810.20	-527.70	481.96	211158.28	178624.80	38.3016973	-80.2139024
PBHL #8 - Country 4MH	7802.28	-15784.80	4853.78	298841.38	1771888.87	38.3101562	-80.1848428

Project: Harrison County, WV (NAD83 - GRID)  
 Site: Country 4MH  
 Well: Country 4MH  
 Wellbore: Wellbore #1  
 Design: #10

Country 4MH

**M G Azimuths to Grid North**  
 True North: 0.45°  
 Magnetic North: -8.91°  
 Magnetic Field  
 Strength: 51568.7nT  
 Dip Angle: 65.77°  
 Date: 12/13/2023  
 Model: HDGM2023



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# Diversified Production, LLC

Harrison County, WV (NAD83 - GRID)

Country Pad

Country 4MH

Wellbore #1

Plan: Design #10



**Total Directional**

Driven by TOTAL performance

## Standard Plan Report

08 November, 2023

*Total Report Version 1.60*

*COMPASS 5000.16 Build 97*

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WV Division  
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**DIVERSIFIED**  
energy

Planned Survey Report



<b>Company:</b>	Diversified Production, LLC	<b>Local Co-ordinate Reference:</b>	Well Country 4MH
<b>Project:</b>	Harrison County, WV (NAD83 - GRID)	<b>TVD Reference:</b>	WELL @ 1160.00usft (Precision 110)
<b>Site:</b>	Country Pad	<b>MD Reference:</b>	WELL @ 1160.00usft (Precision 110)
<b>Well:</b>	Country 4MH	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Design #10	<b>Database:</b>	EDM 5000.1 Single User Db

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

<b>Site</b>	Country Pad				
<b>Site Position:</b>		<b>Northing:</b>	311,934.56 usft	<b>Latitude:</b>	39.3542500
<b>From:</b>	Map	<b>Easting:</b>	1,767,737.53 usft	<b>Longitude:</b>	-80.2099910
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "		

<b>Well</b>	Country 4MH					
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b>	311,635.98 usft	<b>Latitude:</b>	39.3534206
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b>	1,767,292.86 usft	<b>Longitude:</b>	-80.2115551
<b>Position Uncertainty</b>	0.00 usft		<b>Wellhead Elevation:</b>	usft	<b>Ground Level:</b>	1,133.00 usft
<b>Grid Convergence:</b>	-0.45 "					

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

<b>Design</b>	Design #10				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00	
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	160.95	

<b>Survey Tool Program</b>	<b>Date</b>	11/8/2023			
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
0.00	24,152.21	Design #10 (Wellbore #1)	MWD+HRGM	OWSG MWD + HRGM	

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Planned Survey Report

<b>Company:</b>	Diversified Production, LLC	<b>Local Co-ordinate Reference:</b>	Well Country 4MH
<b>Project:</b>	Harrison County, WV (NAD83 - GRID)	<b>TVD Reference:</b>	WELL @ 1160.00usft (Precision 110)
<b>Site:</b>	Country Pad	<b>MD Reference:</b>	WELL @ 1160.00usft (Precision 110)
<b>Well:</b>	Country 4MH	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Design #10	<b>Database:</b>	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	
1,683.33	5.00	280.00	1,682.91	2.52	-14.31	1.50	1.50	0.00	280.00	
3,055.65	5.00	280.00	3,050.00	23.29	-132.10	0.00	0.00	0.00	0.00	
3,273.44	9.22	270.74	3,266.08	25.17	-158.90	2.00	1.94	-4.25	-19.84	
7,069.11	9.22	270.74	7,012.74	32.98	-766.77	0.00	0.00	0.00	0.00	
7,990.30	89.00	160.95	7,610.00	-527.70	-667.96	10.00	8.66	-11.92	-109.70	LP v8 - Country 4M
16,490.30	89.00	160.95	7,758.35	-8,560.97	2,105.96	0.00	0.00	0.00	0.00	
16,762.76	89.00	155.50	7,763.10	-8,813.85	2,206.97	2.00	0.00	-2.00	-90.05	
17,362.76	89.00	155.50	7,773.58	-9,359.74	2,455.75	0.00	0.00	0.00	0.00	
18,124.08	88.99	170.70	7,787.01	-10,085.94	2,676.38	2.00	0.00	2.00	90.17	
18,612.45	89.00	160.95	7,795.59	-10,558.80	2,795.80	2.00	0.00	-2.00	-90.03	
24,152.45	89.00	160.95	7,892.28	-15,794.60	4,603.75	0.00	0.00	0.00	0.00	PBHL v8 - 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	311,635.98	1,767,292.86	39.3534206	-80.2115551	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	311,635.98	1,767,292.86	39.3534206	-80.2115551	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	311,635.98	1,767,292.86	39.3534206	-80.2115551	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	311,635.98	1,767,292.86	39.3534206	-80.2115551	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	311,635.98	1,767,292.86	39.3534206	-80.2115551	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	311,635.98	1,767,292.86	39.3534206	-80.2115551	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	311,635.98	1,767,292.86	39.3534206	-80.2115551	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	311,635.98	1,767,292.86	39.3534206	-80.2115551	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	311,635.98	1,767,292.86	39.3534206	-80.2115551	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	311,635.98	1,767,292.86	39.3534206	-80.2115551	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	311,635.98	1,767,292.86	39.3534206	-80.2115551	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	311,635.98	1,767,292.86	39.3534206	-80.2115551	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	311,635.98	1,767,292.86	39.3534206	-80.2115551	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	311,635.98	1,767,292.86	39.3534206	-80.2115551	0.00	0.00	0.00	0.00
1,350.00	0.00	0.00	1,350.00	0.00	0.00	311,635.98	1,767,292.86	39.3534206	-80.2115551	0.00	0.00	0.00	0.00
1,400.00	0.75	280.00	1,400.00	0.06	-0.32	311,636.04	1,767,292.54	39.3534208	-80.2115562	-0.16	1.50	1.50	0.00
1,500.00	2.25	280.00	1,499.96	0.51	-2.90	311,636.49	1,767,289.96	39.3534220	-80.2115564	-1.43	1.50	1.50	0.00
1,600.00	3.75	280.00	1,599.82	1.42	-8.05	311,637.40	1,767,284.81	39.3534243	-80.2115936	-3.97	1.50	1.50	0.00
1,683.33	5.00	280.00	1,682.91	2.52	-14.31	311,638.50	1,767,278.55	39.3534272	-80.2116058	-7.06	1.50	1.50	0.00
1,700.00	5.00	280.00	1,699.51	2.78	-15.74	311,638.76	1,767,277.12	39.3534279	-80.2116108	-7.76	0.00	0.00	0.00
1,800.00	5.00	280.00	1,799.13	4.29	-24.33	311,640.27	1,767,268.53	39.3534319	-80.2116412	-12.00	0.00	0.00	0.00



Planned Survey Report

4703306025

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Office of Oil and Gas

DEC 13 2023



<b>Company:</b>	Diversified Production, LLC	<b>Local Co-ordinate Reference:</b>	Well Country 4MH
<b>Project:</b>	Harrison County, WV (NAD83 - GRID)	<b>TVD Reference:</b>	WELL @ 1160.00usft (Precision 110)
<b>Site:</b>	Country Pad	<b>MD Reference:</b>	WELL @ 1160.00usft (Precision 110)
<b>Well:</b>	Country 4MH	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Design #10	<b>Database:</b>	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 Rate (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,900.00	5.00	280.00	1,898.75	5.80	-32.91	311,641.78	1,767,259.95	39.3534358	-80.2116716	-16.23	0.00	0.00	0.00
2,000.00	5.00	280.00	1,998.37	7.32	-41.49	311,643.30	1,767,251.37	39.3534399	-80.2117020	-20.46	0.00	0.00	0.00
2,100.00	5.00	280.00	2,097.99	8.83	-50.08	311,644.81	1,767,242.79	39.3534438	-80.2117324	-24.69	0.00	0.00	0.00
2,200.00	5.00	280.00	2,197.61	10.34	-58.66	311,646.32	1,767,234.20	39.3534477	-80.2117628	-28.92	0.00	0.00	0.00
2,300.00	5.00	280.00	2,297.23	11.86	-67.24	311,647.84	1,767,225.62	39.3534517	-80.2117932	-33.16	0.00	0.00	0.00
2,400.00	5.00	280.00	2,396.85	13.37	-75.83	311,649.35	1,767,217.04	39.3534557	-80.2118236	-37.39	0.00	0.00	0.00
2,500.00	5.00	280.00	2,496.47	14.88	-84.41	311,650.86	1,767,208.45	39.3534596	-80.2118540	-41.62	0.00	0.00	0.00
2,600.00	5.00	280.00	2,596.09	16.40	-92.99	311,652.38	1,767,199.87	39.3534636	-80.2118844	-45.85	0.00	0.00	0.00
2,700.00	5.00	280.00	2,695.71	17.91	-101.58	311,653.89	1,767,191.29	39.3534676	-80.2119148	-50.08	0.00	0.00	0.00
2,800.00	5.00	280.00	2,795.33	19.42	-110.16	311,655.40	1,767,182.70	39.3534716	-80.2119452	-54.32	0.00	0.00	0.00
2,900.00	5.00	280.00	2,894.95	20.94	-118.74	311,656.92	1,767,174.12	39.3534755	-80.2119756	-58.55	0.00	0.00	0.00
3,000.00	5.00	280.00	2,994.57	22.45	-127.33	311,658.43	1,767,165.54	39.3534795	-80.2120060	-62.78	0.00	0.00	0.00
3,055.65	5.00	280.00	3,050.00	23.29	-132.10	311,659.27	1,767,160.76	39.3534817	-80.2120229	-65.13	0.00	0.00	0.00
3,100.00	5.84	277.04	3,094.16	23.91	-136.25	311,659.88	1,767,156.62	39.3534833	-80.2120376	-67.07	2.00	1.90	-6.67
3,200.00	7.78	272.74	3,193.45	24.85	-148.06	311,660.83	1,767,144.81	39.3534856	-80.2120794	-71.82	2.00	1.94	-4.30
3,273.44	9.22	270.74	3,266.08	25.17	-158.90	311,661.15	1,767,133.96	39.3534883	-80.2121177	-75.65	2.00	1.96	-2.73
3,300.00	9.22	270.74	3,292.30	25.22	-163.16	311,661.20	1,767,129.71	39.3534883	-80.2121328	-77.09	0.00	0.00	0.00
3,400.00	9.22	270.74	3,391.01	25.43	-179.17	311,661.41	1,767,113.69	39.3534885	-80.2121894	-82.51	0.00	0.00	0.00
3,500.00	9.22	270.74	3,489.71	25.63	-195.19	311,661.61	1,767,097.68	39.3534867	-80.2122460	-87.94	0.00	0.00	0.00
3,600.00	9.22	270.74	3,588.42	25.84	-211.20	311,661.82	1,767,081.66	39.3534870	-80.2123027	-93.36	0.00	0.00	0.00
3,700.00	9.22	270.74	3,687.13	26.04	-227.22	311,662.02	1,767,065.65	39.3534872	-80.2123593	-98.78	0.00	0.00	0.00
3,800.00	9.22	270.74	3,785.84	26.25	-243.23	311,662.23	1,767,049.63	39.3534874	-80.2124160	-104.20	0.00	0.00	0.00
3,900.00	9.22	270.74	3,884.55	26.46	-259.24	311,662.44	1,767,033.62	39.3534876	-80.2124726	-109.62	0.00	0.00	0.00
4,000.00	9.22	270.74	3,983.26	26.66	-275.26	311,662.64	1,767,017.60	39.3534878	-80.2125292	-115.05	0.00	0.00	0.00
4,100.00	9.22	270.74	4,081.97	26.87	-291.27	311,662.85	1,767,001.59	39.3534880	-80.2125859	-120.47	0.00	0.00	0.00
4,200.00	9.22	270.74	4,180.68	27.07	-307.29	311,663.05	1,766,985.57	39.3534883	-80.2126425	-125.89	0.00	0.00	0.00
4,300.00	9.22	270.74	4,279.39	27.28	-323.30	311,663.26	1,766,969.56	39.3534885	-80.2126992	-131.31	0.00	0.00	0.00
4,400.00	9.22	270.74	4,378.10	27.49	-339.32	311,663.47	1,766,953.54	39.3534887	-80.2127558	-136.73	0.00	0.00	0.00
4,500.00	9.22	270.74	4,476.80	27.69	-355.33	311,663.67	1,766,937.53	39.3534889	-80.2128124	-142.15	0.00	0.00	0.00
4,600.00	9.22	270.74	4,575.51	27.90	-371.35	311,663.88	1,766,921.51	39.3534891	-80.2128691	-147.58	0.00	0.00	0.00
4,700.00	9.22	270.74	4,674.22	28.10	-387.36	311,664.08	1,766,905.50	39.3534893	-80.2129257	-153.00	0.00	0.00	0.00
4,800.00	9.22	270.74	4,772.93	28.31	-403.38	311,664.29	1,766,889.48	39.3534896	-80.2129823	-158.42	0.00	0.00	0.00
4,900.00	9.22	270.74	4,871.64	28.52	-419.39	311,664.50	1,766,873.47	39.3534898	-80.2130390	-163.84	0.00	0.00	0.00
5,000.00	9.22	270.74	4,970.35	28.72	-435.41	311,664.70	1,766,857.45	39.3534900	-80.2130956	-169.26	0.00	0.00	0.00
5,100.00	9.22	270.74	5,069.06	28.93	-451.42	311,664.91	1,766,841.44	39.3534902	-80.2131523	-174.69	0.00	0.00	0.00
5,200.00	9.22	270.74	5,167.77	29.13	-467.44	311,665.11	1,766,825.42	39.3534904	-80.2132089	-180.11	0.00	0.00	0.00
5,300.00	9.22	270.74	5,266.48	29.34	-483.45	311,665.32	1,766,809.41	39.3534906	-80.2132655	-185.53	0.00	0.00	0.00
5,400.00	9.22	270.74	5,365.19	29.55	-499.47	311,665.53	1,766,793.39	39.3534909	-80.2133222	-190.95	0.00	0.00	0.00



<b>Company:</b> Diversified Production, LLC	<b>Local Co-ordinate Reference:</b> Well Country 4MH	<b>Department of Environmental Protection</b>
<b>Project:</b> Harrison County, WV (NAD83 - GRID)	<b>TVD Reference:</b> WELL @ 1160.00usft (Precision 110)	
<b>Site:</b> Country Pad	<b>MD Reference:</b> WELL @ 1160.00usft (Precision 110)	
<b>Well:</b> Country 4MH	<b>North Reference:</b> Grid	
<b>Wellbore:</b> Wellbore #1	<b>Survey Calculation Method:</b> Minimum Curvature	
<b>Design:</b> Design #10	<b>Database:</b> 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)
5,500.00	9.22	270.74	5,463.90	29.75	-515.48	311,665.73	1,766,777.38	39.3534911	-80.2133786	-196.37	0.00	0.00	0.00
5,600.00	9.22	270.74	5,562.60	29.96	-531.50	311,665.94	1,766,761.36	39.3534913	-80.2134355	-201.79	0.00	0.00	0.00
5,700.00	9.22	270.74	5,661.31	30.16	-547.51	311,666.14	1,766,745.35	39.3534915	-80.2134921	-207.22	0.00	0.00	0.00
5,800.00	9.22	270.74	5,760.02	30.37	-563.53	311,666.35	1,766,729.33	39.3534917	-80.2135487	-212.64	0.00	0.00	0.00
5,900.00	9.22	270.74	5,858.73	30.58	-579.54	311,666.55	1,766,713.32	39.3534919	-80.2136054	-218.06	0.00	0.00	0.00
6,000.00	9.22	270.74	5,957.44	30.78	-595.56	311,666.75	1,766,697.30	39.3534922	-80.2136620	-223.48	0.00	0.00	0.00
6,100.00	9.22	270.74	6,056.15	30.99	-611.57	311,666.97	1,766,681.29	39.3534924	-80.2137187	-228.90	0.00	0.00	0.00
6,200.00	9.22	270.74	6,154.86	31.19	-627.59	311,667.17	1,766,665.28	39.3534926	-80.2137753	-234.33	0.00	0.00	0.00
6,300.00	9.22	270.74	6,253.57	31.40	-643.60	311,667.38	1,766,649.26	39.3534928	-80.2138319	-239.75	0.00	0.00	0.00
6,400.00	9.22	270.74	6,352.28	31.61	-659.62	311,667.58	1,766,633.25	39.3534930	-80.2138886	-245.17	0.00	0.00	0.00
6,500.00	9.22	270.74	6,450.99	31.81	-675.63	311,667.79	1,766,617.23	39.3534932	-80.2139452	-250.59	0.00	0.00	0.00
6,600.00	9.22	270.74	6,549.70	32.02	-691.65	311,668.00	1,766,601.22	39.3534935	-80.2140019	-256.01	0.00	0.00	0.00
6,700.00	9.22	270.74	6,648.40	32.22	-707.66	311,668.20	1,766,585.20	39.3534937	-80.2140585	-261.44	0.00	0.00	0.00
6,800.00	9.22	270.74	6,747.11	32.43	-723.68	311,668.41	1,766,569.19	39.3534939	-80.2141151	-266.86	0.00	0.00	0.00
6,900.00	9.22	270.74	6,845.82	32.64	-739.69	311,668.61	1,766,553.17	39.3534941	-80.2141718	-272.28	0.00	0.00	0.00
7,000.00	9.22	270.74	6,944.53	32.84	-755.71	311,668.82	1,766,537.16	39.3534943	-80.2142284	-277.70	0.00	0.00	0.00
7,069.11	9.22	270.74	7,012.74	32.98	-766.77	311,668.96	1,766,526.09	39.3534945	-80.2142675	-281.45	0.00	0.00	0.00
7,100.00	8.67	251.07	7,043.27	32.26	-771.45	311,668.24	1,766,521.41	39.3534924	-80.2142841	-282.29	10.00	-1.76	-63.65
7,150.00	9.98	220.88	7,092.64	27.76	-777.86	311,663.74	1,766,515.00	39.3534799	-80.2143066	-280.13	10.00	2.62	-60.38
7,200.00	13.18	201.45	7,141.63	19.17	-782.78	311,655.15	1,766,510.08	39.3534562	-80.2143238	-273.62	10.00	6.39	-38.86
7,250.00	17.24	190.24	7,189.88	6.57	-786.19	311,642.55	1,766,506.68	39.3534215	-80.2143354	-262.82	10.00	8.13	-22.43
7,300.00	21.69	183.35	7,237.02	-9.96	-788.04	311,626.02	1,766,504.82	39.3533761	-80.2143416	-247.80	10.00	8.90	-13.78
7,350.00	26.33	178.75	7,282.68	-30.28	-788.34	311,605.70	1,766,504.52	39.3533203	-80.2143420	-228.69	10.00	9.28	-9.20
7,400.00	31.08	175.46	7,326.53	-54.25	-787.08	311,581.73	1,766,505.79	39.3532545	-80.2143369	-205.62	10.00	9.49	-6.58
7,450.00	35.88	172.97	7,368.22	-81.67	-784.26	311,554.31	1,766,508.61	39.3531793	-80.2143262	-178.78	10.00	9.62	-4.98
7,500.00	40.73	171.00	7,407.45	-112.35	-779.91	311,523.63	1,766,512.95	39.3530952	-80.2143099	-148.36	10.00	9.70	-3.94
7,550.00	45.61	169.38	7,443.90	-146.04	-774.06	311,489.94	1,766,518.80	39.3530028	-80.2142863	-114.61	10.00	9.75	-3.23
7,600.00	50.51	168.02	7,477.31	-182.49	-766.76	311,453.48	1,766,526.10	39.3529029	-80.2142614	-77.77	10.00	9.79	-2.73
7,650.00	55.42	166.83	7,507.42	-221.43	-758.06	311,414.55	1,766,534.80	39.3527962	-80.2142296	-38.12	10.00	9.82	-2.37
7,700.00	60.34	165.78	7,534.00	-262.56	-748.03	311,373.42	1,766,544.83	39.3526833	-80.2141930	4.03	10.00	9.84	-2.11
7,750.00	65.26	164.83	7,556.85	-305.56	-736.75	311,330.42	1,766,556.12	39.3525657	-80.2141518	48.36	10.00	9.86	-1.91
7,800.00	70.20	163.95	7,575.79	-350.11	-724.29	311,285.87	1,766,568.57	39.3524436	-80.2141065	94.53	10.00	9.87	-1.76
7,850.00	75.13	163.12	7,590.68	-395.86	-710.76	311,240.12	1,766,582.10	39.3523163	-80.2140574	142.19	10.00	9.87	-1.66
7,900.00	80.07	162.33	7,601.41	-442.48	-696.25	311,193.50	1,766,596.61	39.3521907	-80.2140048	190.99	10.00	9.88	-1.58
7,950.00	85.02	161.56	7,607.90	-489.60	-680.89	311,146.38	1,766,611.97	39.3520618	-80.2139462	240.54	10.00	9.88	-1.53
7,990.30	89.00	160.95	7,610.00	-527.70	-667.96	311,108.28	1,766,624.90	39.3519573	-80.2139024	280.78	10.00	9.89	-1.51
8,000.00	89.00	160.95	7,610.17	-536.87	-664.80	311,099.11	1,766,628.07	39.3519322	-80.2138909	290.48	0.00	0.00	0.00

DEC 13 2023



**DIVERSIFIED**  
energy

Planned Survey Report

<b>Company:</b>	Diversified Production, LLC	<b>Local Co-ordinate Reference:</b>	Well Country 4MH
<b>Project:</b>	Harrison County, WV (NAD83 - GRID)	<b>TVD Reference:</b>	WELL @ 1160.00usft (Precision 110)
<b>Site:</b>	Country Pad	<b>MD Reference:</b>	WELL @ 1160.00usft (Precision 110)
<b>Well:</b>	Country 4MH	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Design #10	<b>Database:</b>	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)
8,100.00	89.00	160.95	7,611.91	-631.38	-632.16	311,004.60	1,766,660.70	39.3516734	-80.2137729	390.46	0.00	0.00	0.00
8,200.00	89.00	160.95	7,613.66	-725.88	-599.53	310,910.09	1,766,693.33	39.3514147	-80.2136548	490.45	0.00	0.00	0.00
8,300.00	89.00	160.95	7,615.41	-820.39	-566.89	310,815.59	1,766,725.97	39.3511554	-80.2135367	590.43	0.00	0.00	0.00
8,400.00	89.00	160.95	7,617.15	-914.90	-534.26	310,721.08	1,766,758.60	39.3508972	-80.2134187	690.42	0.00	0.00	0.00
8,500.00	89.00	160.95	7,618.90	-1,009.41	-501.63	310,626.57	1,766,791.24	39.3506384	-80.2133006	790.40	0.00	0.00	0.00
8,600.00	89.00	160.95	7,620.64	-1,103.92	-468.99	310,532.06	1,766,823.87	39.3503797	-80.2131826	890.39	0.00	0.00	0.00
8,700.00	89.00	160.95	7,622.39	-1,198.43	-436.36	310,437.55	1,766,856.51	39.3501209	-80.2130645	990.37	0.00	0.00	0.00
8,800.00	89.00	160.95	7,624.13	-1,292.94	-403.72	310,343.04	1,766,889.14	39.3498621	-80.2129465	1,090.36	0.00	0.00	0.00
8,900.00	89.00	160.95	7,625.88	-1,387.45	-371.09	310,248.53	1,766,921.77	39.3496034	-80.2128284	1,190.34	0.00	0.00	0.00
9,000.00	89.00	160.95	7,627.62	-1,481.96	-338.45	310,154.02	1,766,954.41	39.3493446	-80.2127104	1,290.33	0.00	0.00	0.00
9,100.00	89.00	160.95	7,629.37	-1,576.47	-305.82	310,059.51	1,766,987.04	39.3490859	-80.2125923	1,390.31	0.00	0.00	0.00
9,200.00	89.00	160.95	7,631.11	-1,670.97	-273.19	309,965.00	1,767,019.68	39.3488271	-80.2124743	1,490.30	0.00	0.00	0.00
9,300.00	89.00	160.95	7,632.86	-1,765.48	-240.55	309,870.50	1,767,052.31	39.3485683	-80.2123562	1,590.28	0.00	0.00	0.00
9,400.00	89.00	160.95	7,634.60	-1,859.99	-207.92	309,775.99	1,767,084.95	39.3483095	-80.2122382	1,690.27	0.00	0.00	0.00
9,500.00	89.00	160.95	7,636.35	-1,954.50	-175.28	309,681.48	1,767,117.58	39.3480508	-80.2121201	1,790.25	0.00	0.00	0.00
9,600.00	89.00	160.95	7,638.09	-2,049.01	-142.65	309,586.97	1,767,150.22	39.3477921	-80.2120021	1,890.24	0.00	0.00	0.00
9,700.00	89.00	160.95	7,639.84	-2,143.52	-110.01	309,492.46	1,767,182.85	39.3475333	-80.2118841	1,990.22	0.00	0.00	0.00
9,800.00	89.00	160.95	7,641.58	-2,238.03	-77.38	309,397.95	1,767,215.48	39.3472745	-80.2117660	2,090.21	0.00	0.00	0.00
9,900.00	89.00	160.95	7,643.33	-2,332.54	-44.74	309,303.44	1,767,248.12	39.3470158	-80.2116480	2,190.19	0.00	0.00	0.00
10,000.00	89.00	160.95	7,645.07	-2,427.05	-12.11	309,208.93	1,767,280.75	39.3467570	-80.2115299	2,290.17	0.00	0.00	0.00
10,100.00	89.00	160.95	7,646.82	-2,521.56	20.52	309,114.42	1,767,313.39	39.3464983	-80.2114119	2,390.16	0.00	0.00	0.00
10,200.00	89.00	160.95	7,648.56	-2,616.06	53.16	309,019.91	1,767,346.02	39.3462395	-80.2112939	2,490.14	0.00	0.00	0.00
10,300.00	89.00	160.95	7,650.31	-2,710.57	85.79	308,925.41	1,767,378.66	39.3459807	-80.2111758	2,590.13	0.00	0.00	0.00
10,400.00	89.00	160.95	7,652.06	-2,805.08	118.43	308,830.90	1,767,411.29	39.3457220	-80.2110578	2,690.11	0.00	0.00	0.00
10,500.00	89.00	160.95	7,653.80	-2,899.59	151.06	308,736.39	1,767,443.92	39.3454632	-80.2109397	2,790.10	0.00	0.00	0.00
10,600.00	89.00	160.95	7,655.55	-2,994.10	183.70	308,641.88	1,767,476.56	39.3452045	-80.2108217	2,890.08	0.00	0.00	0.00
10,700.00	89.00	160.95	7,657.29	-3,088.61	216.33	308,547.37	1,767,509.19	39.3449457	-80.2107037	2,990.07	0.00	0.00	0.00
10,800.00	89.00	160.95	7,659.04	-3,183.12	248.96	308,452.86	1,767,541.83	39.3446869	-80.2105856	3,090.05	0.00	0.00	0.00
10,900.00	89.00	160.95	7,660.78	-3,277.63	281.60	308,358.35	1,767,574.46	39.3444282	-80.2104676	3,190.04	0.00	0.00	0.00
11,000.00	89.00	160.95	7,662.53	-3,372.14	314.23	308,263.84	1,767,607.10	39.3441694	-80.2103496	3,290.02	0.00	0.00	0.00
11,100.00	89.00	160.95	7,664.27	-3,466.65	346.87	308,169.33	1,767,639.73	39.3439107	-80.2102316	3,390.01	0.00	0.00	0.00
11,200.00	89.00	160.95	7,666.02	-3,561.16	379.50	308,074.82	1,767,672.36	39.3436519	-80.2101135	3,489.99	0.00	0.00	0.00
11,300.00	89.00	160.95	7,667.76	-3,655.66	412.14	307,980.31	1,767,705.00	39.3433931	-80.2099955	3,589.98	0.00	0.00	0.00
11,400.00	89.00	160.95	7,669.51	-3,750.17	444.77	307,885.81	1,767,737.63	39.3431344	-80.2098775	3,689.96	0.00	0.00	0.00
11,500.00	89.00	160.95	7,671.25	-3,844.68	477.40	307,791.30	1,767,770.27	39.3428756	-80.2097594	3,789.95	0.00	0.00	0.00
11,600.00	89.00	160.95	7,673.00	-3,939.19	510.04	307,696.79	1,767,802.90	39.3426168	-80.2096414	3,889.93	0.00	0.00	0.00
11,700.00	89.00	160.95	7,674.74	-4,033.70	542.67	307,602.28	1,767,835.54	39.3423581	-80.2095234	3,989.92	0.00	0.00	0.00
11,800.00	89.00	160.95	7,676.49	-4,128.21	575.31	307,507.77	1,767,868.17	39.3420993	-80.2094054	4,089.90	0.00	0.00	0.00

02/02/2024



<b>Company:</b>	Diversified Production, LLC	<b>Local Co-ordinate Reference:</b>	Well Country 4MH
<b>Project:</b>	Harrison County, WV (NAD83 - GRID)	<b>TVD Reference:</b>	WELL @ 1160.00usft (Precision 110)
<b>Site:</b>	Country Pad	<b>MD Reference:</b>	WELL @ 1160.00usft (Precision 110)
<b>Well:</b>	Country 4MH	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Design #10	<b>Database:</b>	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 Rate (usft/100usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,900.00	89.00	160.95	7,678.23	-4,222.72	607.94	307,413.26	1,767,900.81	39.3418406	-80.2092873	4,189.89	0.00	0.00	0.00
12,000.00	89.00	160.95	7,679.98	-4,317.23	640.58	307,318.75	1,767,933.44	39.3415818	-80.2091693	4,289.87	0.00	0.00	0.00
12,100.00	89.00	160.95	7,681.72	-4,411.74	673.21	307,224.24	1,767,966.07	39.3413230	-80.2090513	4,389.85	0.00	0.00	0.00
12,200.00	89.00	160.95	7,683.47	-4,506.25	705.85	307,129.73	1,767,998.71	39.3410643	-80.2089333	4,489.84	0.00	0.00	0.00
12,300.00	89.00	160.95	7,685.21	-4,600.75	738.48	307,035.22	1,768,031.34	39.3408055	-80.2088152	4,589.82	0.00	0.00	0.00
12,400.00	89.00	160.95	7,686.96	-4,695.26	771.11	306,940.72	1,768,063.98	39.3405467	-80.2086972	4,689.81	0.00	0.00	0.00
12,500.00	89.00	160.95	7,688.71	-4,789.77	803.75	306,846.21	1,768,096.61	39.3402880	-80.2085792	4,789.79	0.00	0.00	0.00
12,600.00	89.00	160.95	7,690.45	-4,884.28	836.38	306,751.70	1,768,129.25	39.3400292	-80.2084612	4,889.78	0.00	0.00	0.00
12,700.00	89.00	160.95	7,692.20	-4,978.79	869.02	306,657.19	1,768,161.88	39.3397705	-80.2083432	4,989.76	0.00	0.00	0.00
12,800.00	89.00	160.95	7,693.94	-5,073.30	901.65	306,562.68	1,768,194.51	39.3395117	-80.2082252	5,089.75	0.00	0.00	0.00
12,900.00	89.00	160.95	7,695.69	-5,167.81	934.29	306,468.17	1,768,227.15	39.3392529	-80.2081071	5,189.73	0.00	0.00	0.00
13,000.00	89.00	160.95	7,697.43	-5,262.32	966.92	306,373.66	1,768,259.78	39.3389942	-80.2079891	5,289.72	0.00	0.00	0.00
13,100.00	89.00	160.95	7,699.18	-5,356.83	999.55	306,279.15	1,768,292.42	39.3387354	-80.2078711	5,389.70	0.00	0.00	0.00
13,200.00	89.00	160.95	7,700.92	-5,451.34	1,032.19	306,184.64	1,768,325.05	39.3384766	-80.2077531	5,489.69	0.00	0.00	0.00
13,300.00	89.00	160.95	7,702.67	-5,545.84	1,064.82	306,090.13	1,768,357.69	39.3382179	-80.2076351	5,589.67	0.00	0.00	0.00
13,400.00	89.00	160.95	7,704.41	-5,640.35	1,097.46	305,995.63	1,768,390.32	39.3379591	-80.2075171	5,689.66	0.00	0.00	0.00
13,500.00	89.00	160.95	7,706.16	-5,734.86	1,130.09	305,901.12	1,768,422.95	39.3377003	-80.2073991	5,789.64	0.00	0.00	0.00
13,600.00	89.00	160.95	7,707.90	-5,829.37	1,162.73	305,806.61	1,768,455.59	39.3374416	-80.2072811	5,889.63	0.00	0.00	0.00
13,700.00	89.00	160.95	7,709.65	-5,923.88	1,195.36	305,712.10	1,768,488.22	39.3371828	-80.2071631	5,989.61	0.00	0.00	0.00
13,800.00	89.00	160.95	7,711.39	-6,018.39	1,227.99	305,617.59	1,768,520.86	39.3369241	-80.2070450	6,089.60	0.00	0.00	0.00
13,900.00	89.00	160.95	7,713.14	-6,112.90	1,260.63	305,523.08	1,768,553.49	39.3366653	-80.2069270	6,189.58	0.00	0.00	0.00
14,000.00	89.00	160.95	7,714.88	-6,207.41	1,293.26	305,428.57	1,768,586.13	39.3364065	-80.2068090	6,289.57	0.00	0.00	0.00
14,100.00	89.00	160.95	7,716.63	-6,301.92	1,325.90	305,334.06	1,768,618.76	39.3361478	-80.2066910	6,389.55	0.00	0.00	0.00
14,200.00	89.00	160.95	7,718.37	-6,396.43	1,358.53	305,239.55	1,768,651.39	39.3358890	-80.2065730	6,489.54	0.00	0.00	0.00
14,300.00	89.00	160.95	7,720.12	-6,490.93	1,391.17	305,145.04	1,768,684.03	39.3356302	-80.2064550	6,589.52	0.00	0.00	0.00
14,400.00	89.00	160.95	7,721.86	-6,585.44	1,423.80	305,050.54	1,768,716.66	39.3353715	-80.2063370	6,689.50	0.00	0.00	0.00
14,500.00	89.00	160.95	7,723.61	-6,679.95	1,456.43	304,956.03	1,768,749.30	39.3351127	-80.2062190	6,789.49	0.00	0.00	0.00
14,600.00	89.00	160.95	7,725.36	-6,774.46	1,489.07	304,861.52	1,768,781.93	39.3348539	-80.2061010	6,889.47	0.00	0.00	0.00
14,700.00	89.00	160.95	7,727.10	-6,868.97	1,521.70	304,767.01	1,768,814.57	39.3345952	-80.2059830	6,989.46	0.00	0.00	0.00
14,800.00	89.00	160.95	7,728.85	-6,963.48	1,554.34	304,672.50	1,768,847.20	39.3343364	-80.2058650	7,089.44	0.00	0.00	0.00
14,900.00	89.00	160.95	7,730.59	-7,057.99	1,586.97	304,577.99	1,768,879.84	39.3340776	-80.2057470	7,189.43	0.00	0.00	0.00
15,000.00	89.00	160.95	7,732.34	-7,152.50	1,619.61	304,483.48	1,768,912.47	39.3338189	-80.2056290	7,289.41	0.00	0.00	0.00
15,100.00	89.00	160.95	7,734.08	-7,247.01	1,652.24	304,388.97	1,768,945.10	39.3335601	-80.2055110	7,389.40	0.00	0.00	0.00
15,200.00	89.00	160.95	7,735.83	-7,341.52	1,684.88	304,294.46	1,768,977.74	39.3333013	-80.2053930	7,489.38	0.00	0.00	0.00
15,300.00	89.00	160.95	7,737.57	-7,436.02	1,717.51	304,199.95	1,769,010.37	39.3330426	-80.2052750	7,589.37	0.00	0.00	0.00
15,400.00	89.00	160.95	7,739.32	-7,530.53	1,750.14	304,105.45	1,769,043.01	39.3327838	-80.2051571	7,689.35	0.00	0.00	0.00
15,500.00	89.00	160.95	7,741.06	-7,625.04	1,782.78	304,010.94	1,769,075.64	39.3325250	-80.2050391	7,789.34	0.00	0.00	0.00



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<b>Project:</b>	Harrison County, WV (NAD83 - GRID)	<b>TVD Reference:</b>	WELL @ 1160.00usft (Precision 110)
<b>Site:</b>	Country Pad	<b>MD Reference:</b>	WELL @ 1160.00usft (Precision 110)
<b>Well:</b>	Country 4MH	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Design #10	<b>Database:</b>	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)
15,600.00	89.00	160.95	7,742.81	-7,719.55	1,815.41	303,916.43	1,769,108.28	39.3322663	-80.2049211	7,889.32	0.00	0.00	0.00
15,700.00	89.00	160.95	7,744.55	-7,814.06	1,848.05	303,821.92	1,769,140.91	39.3320075	-80.2048031	7,989.31	0.00	0.00	0.00
15,800.00	89.00	160.95	7,746.30	-7,908.57	1,880.68	303,727.41	1,769,173.54	39.3317487	-80.2046851	8,089.29	0.00	0.00	0.00
15,900.00	89.00	160.95	7,748.04	-8,003.08	1,913.32	303,632.90	1,769,206.18	39.3314900	-80.2045671	8,189.28	0.00	0.00	0.00
16,000.00	89.00	160.95	7,749.79	-8,097.59	1,945.95	303,538.39	1,769,238.81	39.3312312	-80.2044491	8,289.26	0.00	0.00	0.00
16,100.00	89.00	160.95	7,751.53	-8,192.10	1,978.58	303,443.88	1,769,271.45	39.3309724	-80.2043311	8,389.25	0.00	0.00	0.00
16,200.00	89.00	160.95	7,753.28	-8,286.61	2,011.22	303,349.37	1,769,304.08	39.3307137	-80.2042131	8,489.23	0.00	0.00	0.00
16,300.00	89.00	160.95	7,755.02	-8,381.11	2,043.85	303,254.86	1,769,336.72	39.3304549	-80.2040951	8,589.22	0.00	0.00	0.00
16,400.00	89.00	160.95	7,756.77	-8,475.62	2,076.49	303,160.36	1,769,369.35	39.3301961	-80.2039772	8,689.20	0.00	0.00	0.00
16,490.30	89.00	160.95	7,758.35	-8,560.97	2,109.96	303,075.01	1,769,398.82	39.3299625	-80.2038706	8,779.49	0.00	0.00	0.00
16,500.00	89.00	160.76	7,758.51	-8,570.13	2,109.14	303,065.85	1,769,402.00	39.3299374	-80.2038591	8,789.18	2.00	0.00	-2.00
16,600.00	89.00	158.76	7,760.26	-8,663.93	2,143.73	302,972.05	1,769,436.60	39.3296806	-80.2037342	8,889.14	2.00	0.00	-2.00
16,700.00	89.00	156.76	7,762.01	-8,756.47	2,181.58	302,879.51	1,769,474.44	39.3294273	-80.2035979	8,986.97	2.00	0.00	-2.00
16,762.76	89.00	155.50	7,763.10	-8,813.85	2,206.97	302,822.13	1,769,499.84	39.3292703	-80.2035065	9,051.49	2.00	0.00	-2.00
16,800.00	89.00	155.50	7,763.75	-8,847.73	2,222.42	302,788.25	1,769,515.28	39.3291777	-80.2034510	9,088.56	0.00	0.00	0.00
16,900.00	89.00	155.50	7,765.50	-8,938.71	2,263.88	302,697.26	1,769,556.74	39.3289288	-80.2033019	9,188.09	0.00	0.00	0.00
17,000.00	89.00	155.50	7,767.24	-9,029.70	2,305.34	302,606.28	1,769,598.21	39.3286799	-80.2031528	9,287.63	0.00	0.00	0.00
17,100.00	89.00	155.50	7,768.99	-9,120.68	2,346.81	302,515.30	1,769,639.67	39.3284310	-80.2030037	9,387.16	0.00	0.00	0.00
17,200.00	89.00	155.50	7,770.74	-9,211.66	2,388.27	302,424.32	1,769,681.13	39.3281821	-80.2028546	9,486.69	0.00	0.00	0.00
17,300.00	89.00	155.50	7,772.48	-9,302.64	2,429.73	302,333.34	1,769,722.59	39.3279332	-80.2027055	9,586.22	0.00	0.00	0.00
17,362.76	89.00	155.50	7,773.58	-9,359.74	2,455.75	302,276.24	1,769,748.62	39.3277770	-80.2026120	9,648.69	0.00	0.00	0.00
17,400.00	89.00	156.24	7,774.23	-9,393.73	2,470.97	302,242.25	1,769,763.84	39.3276840	-80.2025572	9,685.78	2.00	-0.01	2.00
17,500.00	88.99	158.24	7,775.98	-9,485.92	2,509.65	302,150.06	1,769,802.51	39.3274317	-80.2024180	9,785.55	2.00	0.00	2.00
17,600.00	88.99	160.24	7,777.74	-9,579.41	2,545.09	302,056.57	1,769,837.95	39.3271758	-80.2022901	9,885.48	2.00	0.00	2.00
17,700.00	88.99	162.23	7,779.51	-9,674.07	2,577.25	301,961.91	1,769,870.11	39.3269166	-80.2021736	9,985.46	2.00	0.00	2.00
17,800.00	88.99	164.23	7,781.28	-9,769.80	2,606.10	301,866.18	1,769,898.96	39.3266544	-80.2020692	10,085.36	2.00	0.00	2.00
17,900.00	88.99	166.23	7,783.05	-9,866.48	2,631.59	301,769.50	1,769,924.45	39.3263896	-80.2019764	10,185.08	2.00	0.00	2.00
18,000.00	88.99	168.22	7,784.82	-9,963.98	2,653.69	301,672.00	1,769,946.56	39.3261223	-80.2018956	10,284.44	2.00	0.00	2.00
18,100.00	88.99	170.22	7,786.58	-10,062.20	2,672.39	301,573.78	1,769,965.25	39.3258531	-80.2018268	10,383.38	2.00	0.00	2.00
18,124.08	88.99	170.70	7,787.01	-10,085.94	2,676.38	301,550.04	1,769,969.24	39.3257680	-80.2018120	10,407.13	2.00	0.00	2.00
18,200.00	88.99	169.19	7,788.35	-10,160.68	2,689.63	301,475.30	1,769,982.50	39.3255830	-80.2017631	10,482.10	2.00	0.00	-2.00
18,300.00	88.99	167.19	7,790.11	-10,258.54	2,710.10	301,377.44	1,770,002.96	39.3253148	-80.2016880	10,581.28	2.00	0.00	-2.00
18,400.00	88.99	165.19	7,791.87	-10,355.63	2,733.97	301,280.35	1,770,026.83	39.3250486	-80.2016010	10,680.84	2.00	0.00	-2.00
18,500.00	89.00	163.20	7,793.63	-10,451.83	2,761.20	301,184.15	1,770,054.06	39.3247852	-80.2015021	10,780.66	2.00	0.00	-2.00
18,600.00	89.00	161.20	7,795.38	-10,547.02	2,791.77	301,088.96	1,770,084.63	39.3245246	-80.2013914	10,880.62	2.00	0.00	-2.00
18,612.45	89.00	160.95	7,795.59	-10,558.80	2,795.80	301,077.18	1,770,088.67	39.3244923	-80.2013768	10,893.07	2.00	0.00	-2.00
18,700.00	89.00	160.95	7,797.12	-10,641.54	2,824.38	300,994.44	1,770,117.24	39.3242658	-80.2012735	10,980.60	0.00	0.00	0.00
18,800.00	89.00	160.95	7,798.67	-10,736.05	2,857.01	300,899.93	1,770,149.87	39.3240070	-80.2011566	11,080.59	0.00	0.00	0.00

4703306025



DIVERSIFIED energy

Planned Survey Report



<b>Company:</b>	Diversified Production, LLC	<b>Local Co-ordinate Reference:</b>	Well Country 4MH
<b>Project:</b>	Harrison County, WV (NAD83 - GRID)	<b>TVD Reference:</b>	WELL @ 1160.00usft (Precision 110)
<b>Site:</b>	Country Pad	<b>MD Reference:</b>	WELL @ 1160.00usft (Precision 110)
<b>Well:</b>	Country 4MH	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Design #10	<b>Database:</b>	EDM 5000.1 Single User Db

REC 13 2023  
 WV Department of Environmental Protection

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)
18,900.00	89.00	160.95	7,800.61	-10,830.56	2,889.64	300,805.42	1,770,182.51	39.3237482	-80.2010376	11,180.57	0.00	0.00	0.00
19,000.00	89.00	160.95	7,802.36	-10,925.07	2,922.28	300,710.91	1,770,215.14	39.3234894	-80.2009196	11,280.56	0.00	0.00	0.00
19,100.00	89.00	160.95	7,804.10	-11,019.58	2,954.91	300,616.40	1,770,247.78	39.3232307	-80.2008017	11,380.54	0.00	0.00	0.00
19,200.00	89.00	160.95	7,805.85	-11,114.09	2,987.55	300,521.89	1,770,280.41	39.3229719	-80.2006837	11,480.53	0.00	0.00	0.00
19,300.00	89.00	160.95	7,807.59	-11,208.60	3,020.18	300,427.38	1,770,313.04	39.3227131	-80.2005658	11,580.51	0.00	0.00	0.00
19,400.00	89.00	160.95	7,809.34	-11,303.10	3,052.82	300,332.87	1,770,345.68	39.3224544	-80.2004478	11,680.50	0.00	0.00	0.00
19,500.00	89.00	160.95	7,811.08	-11,397.61	3,085.45	300,238.37	1,770,378.31	39.3221956	-80.2003298	11,780.48	0.00	0.00	0.00
19,600.00	89.00	160.95	7,812.83	-11,492.12	3,118.08	300,143.86	1,770,410.95	39.3219368	-80.2002119	11,880.47	0.00	0.00	0.00
19,700.00	89.00	160.95	7,814.57	-11,586.63	3,150.72	300,049.35	1,770,443.58	39.3216780	-80.2000939	11,980.45	0.00	0.00	0.00
19,800.00	89.00	160.95	7,816.32	-11,681.14	3,183.35	299,954.84	1,770,476.22	39.3214193	-80.1999760	12,080.44	0.00	0.00	0.00
19,900.00	89.00	160.95	7,818.06	-11,775.65	3,215.99	299,860.33	1,770,508.85	39.3211605	-80.1998580	12,180.42	0.00	0.00	0.00
20,000.00	89.00	160.95	7,819.81	-11,870.16	3,248.62	299,765.82	1,770,541.48	39.3209017	-80.1997401	12,280.41	0.00	0.00	0.00
20,100.00	89.00	160.95	7,821.56	-11,964.67	3,281.26	299,671.31	1,770,574.12	39.3206429	-80.1996221	12,380.39	0.00	0.00	0.00
20,200.00	89.00	160.95	7,823.30	-12,059.18	3,313.89	299,576.80	1,770,606.75	39.3203842	-80.1995042	12,480.38	0.00	0.00	0.00
20,300.00	89.00	160.95	7,825.05	-12,153.69	3,346.52	299,482.29	1,770,639.39	39.3201254	-80.1993862	12,580.36	0.00	0.00	0.00
20,400.00	89.00	160.95	7,826.79	-12,248.19	3,379.16	299,387.78	1,770,672.02	39.3198666	-80.1992683	12,680.35	0.00	0.00	0.00
20,500.00	89.00	160.95	7,828.54	-12,342.70	3,411.79	299,293.28	1,770,704.66	39.3196079	-80.1991503	12,780.33	0.00	0.00	0.00
20,600.00	89.00	160.95	7,830.28	-12,437.21	3,444.43	299,198.77	1,770,737.29	39.3193491	-80.1990324	12,880.31	0.00	0.00	0.00
20,700.00	89.00	160.95	7,832.03	-12,531.72	3,477.06	299,104.26	1,770,769.93	39.3190903	-80.1989144	12,980.30	0.00	0.00	0.00
20,800.00	89.00	160.95	7,833.77	-12,626.23	3,509.70	299,009.75	1,770,802.56	39.3188315	-80.1987965	13,080.28	0.00	0.00	0.00
20,900.00	89.00	160.95	7,835.52	-12,720.74	3,542.33	298,915.24	1,770,835.19	39.3185728	-80.1986785	13,180.27	0.00	0.00	0.00
21,000.00	89.00	160.95	7,837.26	-12,815.25	3,574.97	298,820.73	1,770,867.83	39.3183140	-80.1985606	13,280.25	0.00	0.00	0.00
21,100.00	89.00	160.95	7,839.01	-12,909.76	3,607.60	298,726.22	1,770,900.46	39.3180552	-80.1984426	13,380.24	0.00	0.00	0.00
21,200.00	89.00	160.95	7,840.75	-13,004.27	3,640.23	298,631.71	1,770,933.10	39.3177964	-80.1983247	13,480.22	0.00	0.00	0.00
21,300.00	89.00	160.95	7,842.50	-13,098.78	3,672.87	298,537.20	1,770,965.73	39.3175377	-80.1982068	13,580.21	0.00	0.00	0.00
21,400.00	89.00	160.95	7,844.24	-13,193.28	3,705.50	298,442.69	1,770,998.37	39.3172789	-80.1980888	13,680.19	0.00	0.00	0.00
21,500.00	89.00	160.95	7,845.99	-13,287.79	3,738.14	298,348.19	1,771,031.00	39.3170201	-80.1979709	13,780.18	0.00	0.00	0.00
21,600.00	89.00	160.95	7,847.73	-13,382.30	3,770.77	298,253.68	1,771,063.63	39.3167613	-80.1978529	13,880.16	0.00	0.00	0.00
21,700.00	89.00	160.95	7,849.48	-13,476.81	3,803.41	298,159.17	1,771,096.27	39.3165026	-80.1977350	13,980.15	0.00	0.00	0.00
21,800.00	89.00	160.95	7,851.22	-13,571.32	3,836.04	298,064.66	1,771,128.90	39.3162438	-80.1976171	14,080.13	0.00	0.00	0.00
21,900.00	89.00	160.95	7,852.97	-13,665.83	3,868.67	297,970.15	1,771,161.54	39.3159850	-80.1974991	14,180.12	0.00	0.00	0.00
22,000.00	89.00	160.95	7,854.71	-13,760.34	3,901.31	297,875.64	1,771,194.17	39.3157262	-80.1973812	14,280.10	0.00	0.00	0.00
22,100.00	89.00	160.95	7,856.46	-13,854.85	3,933.94	297,781.13	1,771,226.81	39.3154675	-80.1972633	14,380.09	0.00	0.00	0.00
22,200.00	89.00	160.95	7,858.21	-13,949.36	3,966.58	297,686.62	1,771,259.44	39.3152087	-80.1971453	14,480.07	0.00	0.00	0.00
22,300.00	89.00	160.95	7,859.95	-14,043.87	3,999.21	297,592.11	1,771,292.07	39.3149499	-80.1970274	14,580.06	0.00	0.00	0.00
22,400.00	89.00	160.95	7,861.70	-14,138.37	4,031.85	297,497.60	1,771,324.71	39.3146911	-80.1969095	14,680.04	0.00	0.00	0.00
22,500.00	89.00	160.95	7,863.44	-14,232.88	4,064.48	297,403.10	1,771,357.34	39.3144324	-80.1967915	14,780.03	0.00	0.00	0.00



<b>Company:</b>	Diversified Production, LLC	<b>Local Co-ordinate Reference:</b>	Well Country 4MH
<b>Project:</b>	Harrison County, WV (NAD83 - GRID)	<b>TVD Reference:</b>	WELL @ 1160.00usft (Precision 110)
<b>Site:</b>	Country Pad	<b>MD Reference:</b>	WELL @ 1160.00usft (Precision 110)
<b>Well:</b>	Country 4MH	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Design #10	<b>Database:</b>	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)
22,600.00	89.00	160.95	7,865.19	-14,327.39	4,097.11	297,308.59	1,771,389.98	39.3141736	-80.1966736	14,880.01	0.00	0.00	0.00
22,700.00	89.00	160.95	7,866.93	-14,421.90	4,129.75	297,214.08	1,771,422.61	39.3139148	-80.1965557	14,980.00	0.00	0.00	0.00
22,800.00	89.00	160.95	7,868.68	-14,516.41	4,162.38	297,119.57	1,771,455.25	39.3136560	-80.1964377	15,079.98	0.00	0.00	0.00
22,900.00	89.00	160.95	7,870.42	-14,610.92	4,195.02	297,025.06	1,771,487.88	39.3133973	-80.1963199	15,179.96	0.00	0.00	0.00
23,000.00	89.00	160.95	7,872.17	-14,705.43	4,227.65	296,930.55	1,771,520.52	39.3131385	-80.1962019	15,279.95	0.00	0.00	0.00
23,100.00	89.00	160.95	7,873.91	-14,799.94	4,260.29	296,836.04	1,771,553.15	39.3128797	-80.1960840	15,379.93	0.00	0.00	0.00
23,200.00	89.00	160.95	7,875.66	-14,894.45	4,292.92	296,741.53	1,771,585.78	39.3126209	-80.1959660	15,479.92	0.00	0.00	0.00
23,300.00	89.00	160.95	7,877.40	-14,988.96	4,325.56	296,647.02	1,771,618.42	39.3123622	-80.1958481	15,579.90	0.00	0.00	0.00
23,400.00	89.00	160.95	7,879.15	-15,083.46	4,358.19	296,552.51	1,771,651.05	39.3121034	-80.1957302	15,679.89	0.00	0.00	0.00
23,500.00	89.00	160.95	7,880.89	-15,177.97	4,390.82	296,458.01	1,771,683.69	39.3118446	-80.1956123	15,779.87	0.00	0.00	0.00
23,600.00	89.00	160.95	7,882.64	-15,272.48	4,423.46	296,363.50	1,771,716.32	39.3115858	-80.1954943	15,879.86	0.00	0.00	0.00
23,700.00	89.00	160.95	7,884.38	-15,366.99	4,456.09	296,268.99	1,771,748.96	39.3113270	-80.1953764	15,979.84	0.00	0.00	0.00
23,800.00	89.00	160.95	7,886.13	-15,461.50	4,488.73	296,174.48	1,771,781.59	39.3110683	-80.1952585	16,079.83	0.00	0.00	0.00
23,900.00	89.00	160.95	7,887.87	-15,556.01	4,521.36	296,079.97	1,771,814.22	39.3108095	-80.1951406	16,179.81	0.00	0.00	0.00
24,000.00	89.00	160.95	7,889.62	-15,650.52	4,554.00	295,985.46	1,771,846.86	39.3105507	-80.1950227	16,279.80	0.00	0.00	0.00
24,100.00	89.00	160.95	7,891.36	-15,745.03	4,586.63	295,890.95	1,771,879.49	39.3102919	-80.1949048	16,379.78	0.00	0.00	0.00
24,152.45	89.00	160.95	7,892.28	-15,794.60	4,603.75	295,841.38	1,771,896.61	39.3101562	-80.1948429	16,432.23	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 v8 - Country 4MH - hit/miss target - Shape - Point	0.00	0.00	7,610.00	-527.70	-667.96	311,108.28	1,766,624.90	39.3519573	-80.2139024
AP v8 - Country 4MH - plan misses target center by 0.45usft at 18561.17usft MD (7794.70 TVD, -10510.18 N, 2779.50 E) - Point	0.00	360.00	7,794.70	-10,510.32	2,779.08	301,125.66	1,770,071.94	39.3246250	-80.2014373
PBHL v8 - Country 4M - plan hits target center - Point	0.00	0.00	7,892.28	-15,794.60	4,603.75	295,841.38	1,771,896.61	39.3101562	-80.1948429

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Planned Survey Report



<b>Company:</b>	Diversified Production, LLC	<b>Local Co-ordinate Reference:</b>	Well Country 4MH
<b>Project:</b>	Harrison County, WV (NAD83 - GRID)	<b>TVD Reference:</b>	WELL @ 1160.00usft (Precision 110)
<b>Site:</b>	Country Pad	<b>MD Reference:</b>	WELL @ 1160.00usft (Precision 110)
<b>Well:</b>	Country 4MH	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Design #10	<b>Database:</b>	EDM 5000.1 Single User Db

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1350	1350	0	0	KOP; Begin 1.50° Build
1683	1683	3	-14	Hold 5.00° Inc
3056	3050	23	-132	Begin 2.00° Build
3273	3266	25	-159	Hold 9.22° Tangent
7069	7013	33	-767	Begin 10.00° Build/Turn
7990	7610	-528	-668	Hold 89.00° Lateral
16,490	7758	-8561	2106	Begin 2.00° Turn
16,763	7763	-8814	2207	Hold 155.50° Az
17,363	7774	-9360	2456	Begin 2.00° Turn
18,124	7787	-10,086	2676	Continue 2.00° Turn
18,612	7796	-10,559	2796	Hold 160.95° Az
24,152	7892	-15,795	4604	PBHL - 24152.45' Md

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

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WW-9  
(4/16)

4703306025

API Number 47 - 033 -  
Operator's Well No. Country South 4MH

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: Closed loop consisting of multiple full-round tanks to accommodate all drill cuttings that will be solidified on site and transported via truck to disposal site.

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

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

Additives to be used in drilling medium? \*See attached

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

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

-Landfill or offsite name/permit number? Waste Management/SWF 1032, Wetzel County Landfill/SWF 1021, Apex Environmental/06-08438

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 D. Frick

Company Official (Typed Name) Daniel Frick

Company Official Title Director - EHS Regulatory

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Office of Oil and Gas  
DEC 13 2023

Subscribed and sworn before me this 25<sup>th</sup> day of October, 2023

[Signature] Notary Public

My commission expires November 23<sup>rd</sup> 2026

WV Department of Environmental Protection  
Commonwealth of Pennsylvania - Notary Seal  
Anthony-Jordan Nguyen, Notary Public  
Allegheny County  
My Commission Expires November 23 2026  
My Commission Number: 1429547  
Member, Pennsylvania Association of Notaries

02/02/2024

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 Willett

Comments:

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WV Department of  
Environmental Protection

Title: Oil and Gas Inspector

Date: 12/7/23

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/NaCl<sub>2</sub> & bentonite gel

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

4703306025



Diversified  
Production LLC

## WELL SITE SAFETY PLAN

Well Name: Country South 4MH  
Pad Name: Country

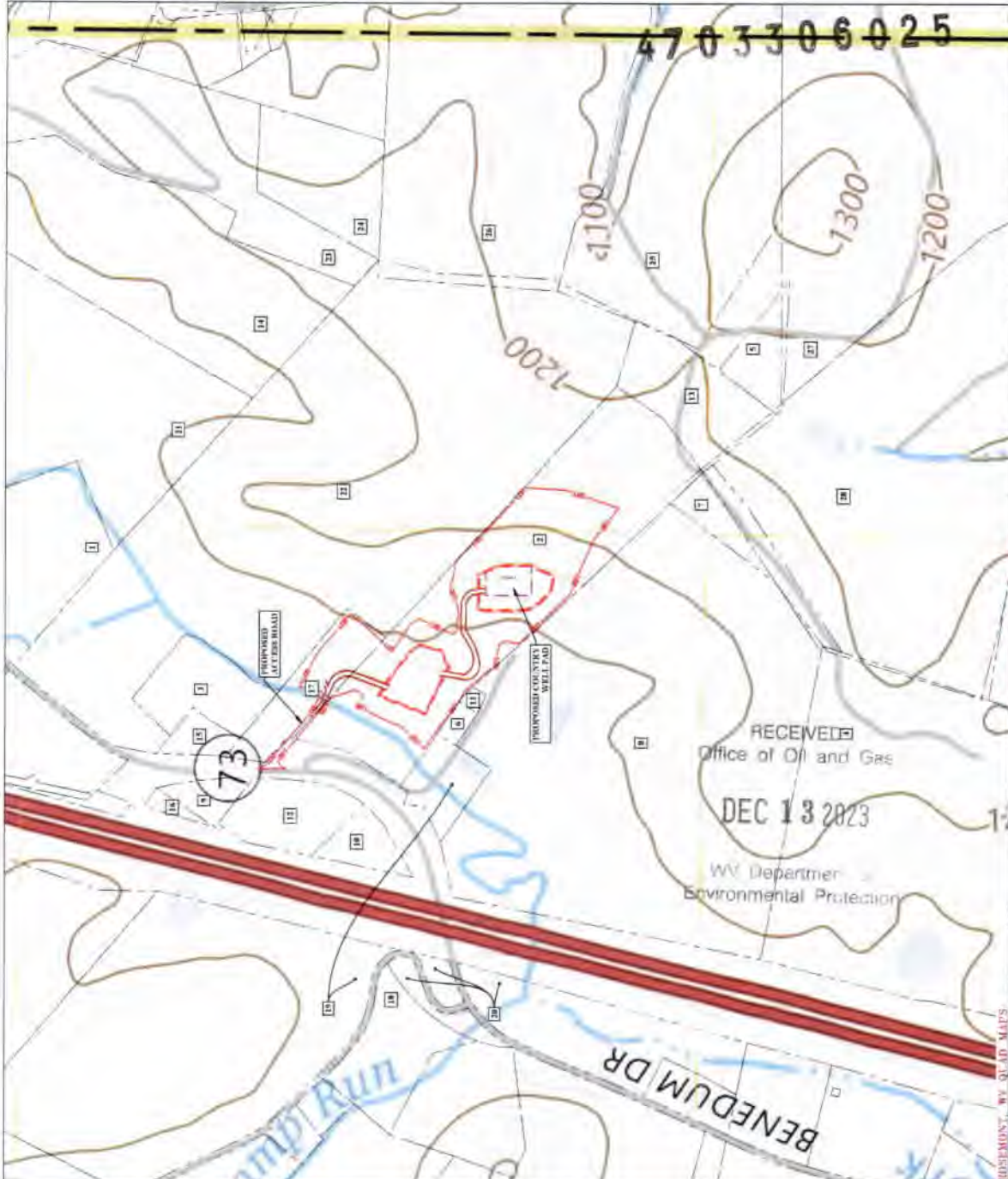
County: Harrison  
District: Clay - Outside  
UTM (meters), NAD83, Zone 17  
Northing: 4,356,293.632  
Easting: 567,932.304

December 2023

*Ky Willett*  
12/7/23

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Environmental Protection

02/02/2024



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DEC 13 2023  
WV Department of Environmental Protection

THRASHER  
POTENTIAL WATER SOURCES

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

170-11330

WV-9

**PLAN LEGEND**

- EXISTING COVERED
- PROPOSED LATERAL ROAD
- PROPOSED CENTER WELL PAD
- PROPOSED WELL PAD PERIMETER BOUNDARY
- PROPOSED WELL PAD PERIMETER BOUNDARY WITHIN LATERAL ROAD
- PROPOSED WELL PAD PERIMETER BOUNDARY WITHIN LATERAL ROAD

PROPOSED CENTER WELL PAD

PROPOSED LATERAL ROAD

Scale: 0 50 100 FT. 1:50,000

NO.	DESCRIPTION	DATE	BY	APP. BY
1	ISSUED FOR PERMITTING	11/15/2023	...	...
2	...	...	...	...
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50	...	...	...	...



NOT FOR CONSTRUCTION  
2023-11-17

Diversified Production LLC

Scale: 0 1 2 3 MILES

COUNTRY SOUTH WELL 4MH			
ID	LEASE NUMBER	LESSOR	LEASE ACREAGE
A	BP049602	A B WILLIS & ET AL	33.00
B	BP053946	MELVILLE WATKINS & ET AL	106.00
C	BP035755	DELIA COLLINS ET AL	106.00
D	BP045972	E B CORE ET AL	51.00
E	BP037528	B T STROTHER ET AL	5.00
F	BP037529	B T STROTHER ET AL	112.00
G	BP024394	M O GOFF ET AL	620.00
H	BP002907	BELLE S PAYNE ET AL	800.00
I	BP045460	J C JOHNSON ET AL	292.00
J	BP066884	W.R. PATTON ET AL	37.25
K	BP045459	A T McDONALD ET AL	118.00

COUNTRY SOUTH WELL 4MH		
ID	SURFACE OWNER	DIST-TM-PAR
1	JAMES D. MILLER ET AL	5-230-45
2	DANAL "PETE" MCMILLION	5-230-44
3	JB ANGUS RANCH, LLC	5-230-49
4	JB ANGUS RANCH, LLC	3-13-12.5
5	JB ANGUS RANCH, LLC	5-250-12
6	CO-TRUSTEES OF THE H. WOOD THRASHER DESCENDANTS TRUST, DATED 1/1/2017	5-250-15
7	LINDA D. MORGAN	3-14-16
8	BEAU S. HANDLEY	15-270-60
9	BEAU S. HANDLEY	15-270-57
10	JON FALKENSTEIN ET AL	15-270-59
11	MARY V. MORGAN ET AL	15-270-61
12	SANDRA SUE BARTLETT ET AL	15-270-56
13	HECTOR A. & ILEANA MARTINEZ	15-270-58.1
14	ROBERT WATKINS	3-14-1.3
15	NORMA JEAN SWIGER	3-14-1.2
16	MARY V. MORGAN ET AL	15-270-22
17	MICHAEL E. & MARSHA L. SHEPHERD	15-270-48
18	MICHAEL E. & MARSHA L. SHEPHERD	3-14-2.31
19	ELIZABETH SNYDER	3-14-2.41
20	DANIEL M. P. & VIOLET M. CARON	3-14-2.1
21	JOSEPH M. & DEBORAH TUCKER	3-14-2.14
22	JOSEPH M. & DEBORAH TUCKER	3-14-2.13
23	DAVID L. & BRENDA J. SMITH	3-14-2.27
24	JOSEPH MICHAEL & BETH A. ADAMS	3-14-2.45
25	JASON UNDERWOOD	3-14-4.3
26	JASON UNDERWOOD	3-14-4.2
27	CLAUDE J. RYAN III ET AL	3-14-4
28	JOSEPH R. GARRETT II ET AL	3-14-4.1
29	JOSEPH R. GARRETT II ET AL	3-14-5
30	JOSEPH R. GARRETT II ET AL	3-19-2
31	BRW DEVELOPMENT LLC	3-19-3

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 4MH  
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 4MH  
API WELL #: 47 33 06025  
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± 02/02/2024  
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: 24,152'±

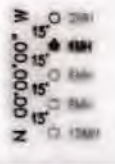
WELL OPERATOR: DIVERSIFIED PRODUCTION, LLC DESIGNATED AGENT: CHRIS VEASEY  
ADDRESS: 101 MCQUISTON DRIVE ADDRESS: 400 SUMMER STREET  
CITY: JACKSON CENTER STATE: PA ZIP CODE: 16133 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

BHL is located on topo map 8,448 feet south of Latitude: 39° 20' 00"  
 SHL is located on topo map 7,865 feet south of Latitude: 39° 22' 30"

# COUNTRY 4MH

## 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 200 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

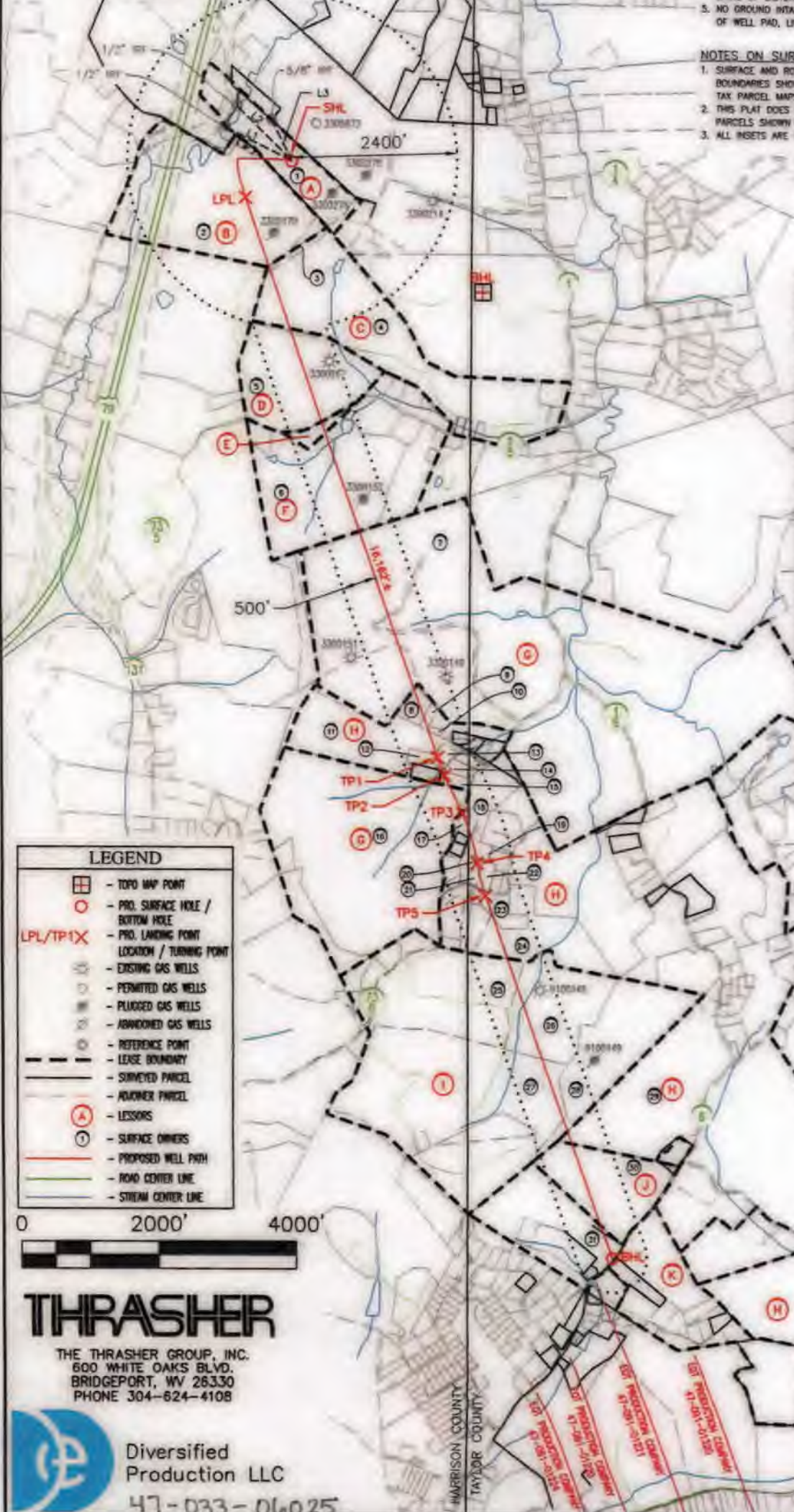
1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
3. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

LINE	BEARING	DISTANCE
L1	N 63°21'37" W	1087.78
L2	N 49°28'56" W	1177.67
L3	N 26°51'58" W	660.42

SURFACE HOLE LOCATION (SHL)	
UTM 17-NAD83 (M)	NAD83, WV NORTH (FT)
NORTHING: 435293.832	NORTHING: 111645.978
EASTING: 58792.304	EASTING: 178729.861
LANDING POINT LOCATION (LPL)	
UTM 17-NAD83 (M)	NAD83, WV NORTH (FT)
NORTHING: 435126.471	NORTHING: 111398.280
EASTING: 58773.474	EASTING: 178628.386
TURNING POINT 1 (TP1)	
UTM 17-NAD83 (M)	NAD83, WV NORTH (FT)
NORTHING: 435309.858	NORTHING: 111675.054
EASTING: 58817.339	EASTING: 178899.629
TURNING POINT 2 (TP2)	
UTM 17-NAD83 (M)	NAD83, WV NORTH (FT)
NORTHING: 435318.624	NORTHING: 111722.111
EASTING: 58849.399	EASTING: 178999.839
TURNING POINT 3 (TP3)	
UTM 17-NAD83 (M)	NAD83, WV NORTH (FT)
NORTHING: 435454.489	NORTHING: 112176.236
EASTING: 58777.961	EASTING: 178798.639
TURNING POINT 4 (TP4)	
UTM 17-NAD83 (M)	NAD83, WV NORTH (FT)
NORTHING: 435124.329	NORTHING: 111190.54
EASTING: 58776.961	EASTING: 178798.241
TURNING POINT 5 (TP5)	
UTM 17-NAD83 (M)	NAD83, WV NORTH (FT)
NORTHING: 435398.679	NORTHING: 112077.179
EASTING: 58837.644	EASTING: 179098.637
BOTTOM HOLE LOCATION (BHL)	
UTM 17-NAD83 (M)	NAD83, WV NORTH (FT)
NORTHING: 435154.864	NORTHING: 111843.393
EASTING: 58815.013	EASTING: 178898.632

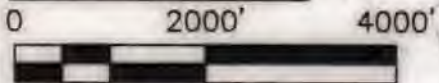


GRID NORTH  
 WV STATE PLANE  
 NORTH ZONE NAD83 (2011)



### LEGEND

- TOP MAP POINT
- PRO. SURFACE HOLE / BOTTOM HOLE
- PRO. LANDING POINT LOCATION / TURNING POINT
- EXISTING GAS WELLS
- PERMITTED GAS WELLS
- PLUGGED GAS WELLS
- ABANDONED GAS WELLS
- REFERENCE POINT
- LEASE BOUNDARY
- SURVEYED PARCEL
- ADJACENT PARCEL
- LESSORS
- SURFACE OWNERS
- PROPOSED WELL PAD
- 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  
 47-033-06025

02/02/2024

BHL is located on topo map 7,972 feet west of Longitude: 80° 10' 00"  
 SHL is located on topo map 911 feet west of Longitude: 80° 12' 30"



WW-6A1  
(5/13)

Operator's Well No. Country South 4MH

**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 L. Morris*  
 Its: Authorized Permitting Agent

Country South	LEGACY LEASE NUMBER	TAX MAP	CURRENT LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE				
A	BP049602	5-230-45	100696000	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	BP053946	5-230-44	100647000	MELVIN WATKINS AND IDA WATKINS, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	528	257
								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	BP035755	5-230-49 3-13-12.5	100675000					SAMUEL COLLINS AND DELILA COLLINS, HUSBAND AND WIFE	R.A. GARRETT	NOT LESS THAN 1/8	221	361
								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				
				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	BP045972	5-250-12	100688000	E.B. CORE AND MAY B. CORE, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	443	72				
				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. T. STROTHER AND ELIZABETH STROTHER	PHILADELPHIA COMPANY OF WEST VIRGINIA	NOT LESS THAN 1/8	224	399				

4703306025

E	BP037528	p/o 5-250-15	100720000	PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURGH AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	236	111
				PITTSBURGH AND WEST VIRGINIA GAS COMPANY; AND PHILADELPHIA OIL COMPANY OF WEST VIRGINIA	HOPE NATURAL GAS COMPANY	ASSIGNMENT	341	327
				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
				F	BP037529	p/o 5-250-15	100656000	B. T. STROTHER AND ELIZABETH STROTHER
GEORGE W. THOMPSON	D. J. STERLING	ASSIGNMENT	47					48
D. J. STERLING	PHILADELPHIA COMPANY OF WEST VIRGINIA	ASSIGNMENT	47					48
PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURGH AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	236					111
PITTSBURGH AND WEST VIRGINIA GAS COMPANY; AND PHILADELPHIA OIL COMPANY OF WEST VIRGINIA	HOPE NATURAL GAS COMPANY	ASSIGNMENT	341					327
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
G	BP024394	3-14-16 15-270-22	100670000	TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	1727	722
				M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	1736	142
				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	15-270-60 15-270-57 15-270-59 15-270-61 15-270-56 15-270-58.1 3-14-1.3 3-14-1.2 15-270-48 3-14-2.31 3-14-2.41 3-14-2.1 3-14-2.14 3-14-2.13 3-14-2.27 3-14-2.45 3-14-5	100657000	BELLE S. PAYNE, COMMITTEE OF WALDO W. PAYNE, AN INSANE PERSON AND SPECIAL COMMISSIONER	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	4	587
				SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	42	342
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	138	270
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	5	555
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
				DOMINION TRANSMISSION, INC.	TRIANA ENERGY, LLC	ASSIGNMENT	33	377
				TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	1727	722
				M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	1736	142
						3-14-4.3		J. C. JOHNSON AND LUCY JOHNSON
A. H. JOHNSON AND ROSS B. THOMAS, SPECIAL COMMISSIONERS, AND BRIDGEPORT NATURAL GAS COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	18					34
HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	138					270

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I	BP045460	3-14-4.2 3-14-4 3-14-4.1	100684000	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	5	555
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
				DOMINION TRANSMISSION, INC.	TRIANA ENERGY, LLC	ASSIGNMENT	33	377
				TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	39	69
				M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	39	148
J	BP056884	3-19-2	100754000	WILLIAM RICHARD PATTON, SINGLE, ABBIE J. STEELE, WIDOW, CATHERINE P. CLARK AND FORREST G. CLARK, HER HUSBAND	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	33	705
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	5	555
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
				DOMINION TRANSMISSION, INC.	TRIANA ENERGY, LLC	ASSIGNMENT	33	377
				TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	39	69
M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	39	148				
K	BP045459	3-19-3	100683000	A.T. MCDONALD AND JENNIE MCDONALD, HIS WIFE	BRIDGEPORT NATURAL GAS & OIL COMPANY	NOT LESS THAN 1/8	10	130
				A. H. JOHNSON AND ROSS B. THOMAS, SPECIAL COMMISSIONERS, AND BRIDGEPORT NATURAL GAS COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	18	34
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	138	270
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	5	555
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
				DOMINION TRANSMISSION, INC.	TRIANA ENERGY, LLC	ASSIGNMENT	33	377
				TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	39	69
M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	39	148				

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December 11, 2023

Mr. Charles T. Brewer  
Assistant Chief  
WVDEP – Office of Oil and Gas  
601 57<sup>th</sup> 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 4MH.

Diversified Production LLC has obtained the right to drill, extract and produce the minerals under Harrison Country Rt. 73/6 in the area reflected on the Country South 4MH well plat. 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](mailto:amy@aux-energy.com).

Sincerely,

Amy L. Morris  
Director of Regulatory Affairs

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

[www.longridgeenergy.com](http://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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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.com](http://www.aux-energy.com)

**Amy Morris**

Director of Regulatory Affairs

304-376-0111

Email [amy@aux-energy.com](mailto:amy@aux-energy.com)

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

Date of Notice Certification: 12/11/2023

API No. 47- 033

Operator's Well No. Country South 4MH

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	UTM NAD 83 Easting:	567,932.304
County:	Harrison	UTM NAD 83 Northing:	4,356,293.632
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		

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  <input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED  <input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED  <input type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or  <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)  <input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION  <input checked="" type="checkbox"/> 5. PUBLIC NOTICE  <input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION		<b>OOG OFFICE USE ONLY</b>  <input type="checkbox"/> RECEIVED/ NOT REQUIRED  <input checked="" type="checkbox"/> RECEIVED  <input type="checkbox"/> RECEIVED/ NOT REQUIRED  <input checked="" type="checkbox"/> RECEIVED  <input checked="" type="checkbox"/> RECEIVED  <input checked="" type="checkbox"/> RECEIVED
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WEST VIRGINIA  
Department of Environmental Protection

**Required Attachments:**

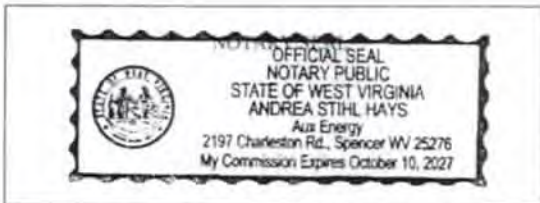
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication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

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**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 11<sup>th</sup> day of December, 2023  
[Signature] Notary Public  
 My Commission Expires 10/10/2027

**Oil and Gas Privacy Notice:**

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

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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: 12/11/2023 Date Permit Application Filed: 12/12/2023

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: \_\_\_\_\_  
Address: \_\_\_\_\_

\*Please attach additional forms if necessary

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Environmental Protection

**Notice is hereby given:**

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

**This Notice Shall Include:**

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

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

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

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

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

**Well Location Restrictions**

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

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(8-13)

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API NO. 47-033  
OPERATOR WELL NO. Country South 4MH  
Well Pad Name: Country

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

**Water Well Testing:**

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

**Water Testing Laboratories:**

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

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

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

**Written Comment:**

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

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

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

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**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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WV Department of Environmental Protection

4703306025

WW-6A  
(8-13)

API NO. 47- 033 -  
OPERATOR WELL NO. Country South 4MH  
Well Pad Name: Country

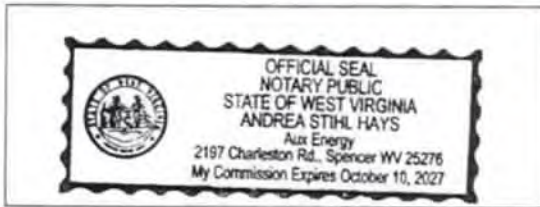
**Notice is hereby given by:**

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

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](mailto:depprivacyofficer@wv.gov).



Subscribed and sworn before me this 8<sup>th</sup> day of December, 2023.  
Andrea Stihl Hays Notary Public  
My Commission Expires 10/10/2027

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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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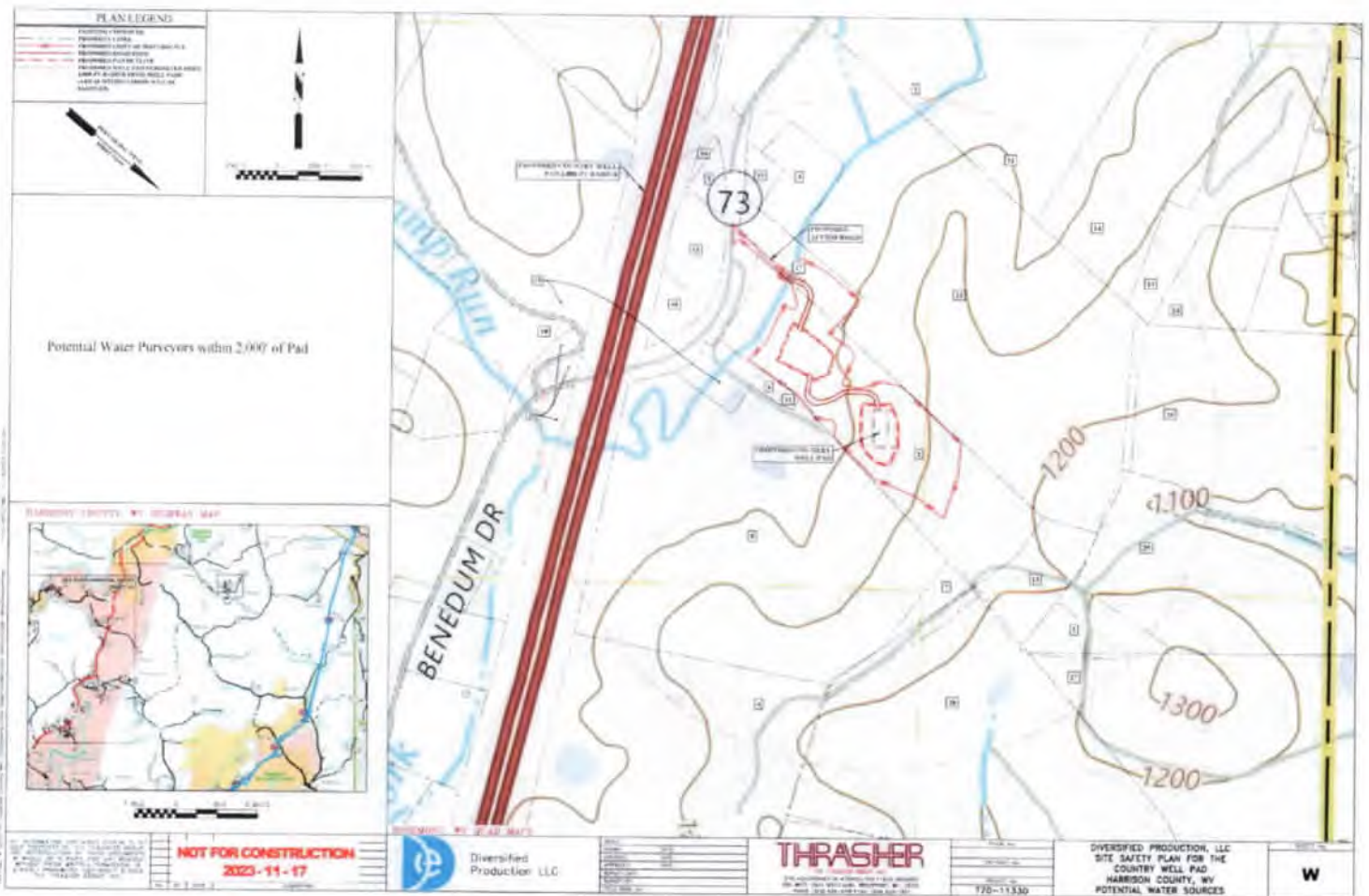
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02/02/2024



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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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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 (Plat) \*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 57<sup>th</sup> 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](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

RECEIVED  
Office of Oil and Gas

**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: \_\_\_\_\_  
 WV Department of Environmental Protection

DEC 13 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 or your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

02/02/2024

4703306025

**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

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Environmental Protection

02/02/2024

**4703306025**

**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:** 12/11/2023      **Date Permit Application Filed:** 12/12/2023

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

- CERTIFIED MAIL       HAND  
RETURN RECEIPT REQUESTED      DELIVERY

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

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

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

Name: 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:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>567,932.304</u>
County:	<u>Harrison</u>		Northing:	<u>4,356,293.632</u>
District:	<u>Clay - Outside</u>	Public Road Access:	<u>Benedum Drive, Rt. 73/73</u>	
Quadrangle:	<u>Rosemont</u>	Generally used farm name:	<u>James D. Miller, et al</u>	
Watershed:	<u>Thomas Fork of Booth's Creek</u>			

**This Notice Shall Include:**

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

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Department of Environmental Protection

02/02/2024

**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

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Environmental Protection

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4703306025

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 57<sup>th</sup> Street, SE  
Charleston, WV 25304

Subject: DOH Permit for the Country Well Pad, Harrison County  
Country South 4MH 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

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DEC 13 2023

WV Department of  
Environmental Protection

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

4703306025

**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

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U.S. DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

02/02/2024



WW-6A7  
(6-12)

OPERATOR: Diversified Production, LLC WELL NO: Country South 4MH

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

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