



west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Thursday, April 17, 2025
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

DIVERSIFIED PRODUCTION LLC
101 MCQUISTON DRIVE

JACKSON CENTER, PA 16133

Re: Permit Modification Approval for Abbey South 8MH
47-033-06048-00-00

Additional leases aquired

DIVERSIFIED PRODUCTION LLC

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before 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, written in a cursive style.

James A. Martin
Chief

Operator's Well Number: Abbey South 8MH
Farm Name: Long Ridge West Virginia LLC
U.S. WELL NUMBER: 47-033-06048-00-00
Horizontal 6A New Drill
Date Modification Issued: 4/17/2025

Promoting a healthy environment.

04/18/2025

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

1) Well Operator: _____

Operator ID	County	District	Quadrangle

2) Operator's Well Number: _____ Well Pad Name: _____

3) Farm Name/Surface Owner: _____ Public Road Access: _____

4) Elevation, current ground: _____ Elevation, proposed post-construction: _____

5) Well Type (a) Gas _____ Oil _____ Underground Storage _____

Other _____

(b) If Gas Shallow _____ Deep _____

Horizontal _____

6) Existing Pad: Yes or No _____

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Formation = Marcellus Shale, Depth = 7,219', Thickness = 136', Pressure = 4,317 psi

8) Proposed Total Vertical Depth: _____

9) Formation at Total Vertical Depth: _____

10) Proposed Total Measured Depth: _____

11) Proposed Horizontal Leg Length: _____

12) Approximate Fresh Water Strata Depths: _____

13) Method to Determine Fresh Water Depths: _____

14) Approximate Saltwater Depths: _____

15) Approximate Coal Seam Depths: _____

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

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: _____

18) **CASING AND TUBING PROGRAM**

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	A	52.78	100'	100'	151ft^3/CTS
Fresh Water/Coal	13.375"	New	H40	48	750'	750'	521ft^3/CTS
Intermediate	9.625"	New	J55	36	2,545'	2,545'	797ft^3/CTS
Production	5.5"	New	HP P110	20	26,035'	26,035'	4,395ft^3/6,850ft
Tubing	2.375"	New	L80	4.7	N/A	8,000'	N/A
Liners	N/A	N/A	N/A	N/A	N/A	N/A	N/A

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	26"	0.25"	450	90	Ready Mix	N/A
Fresh Water/Coal	13.375"	17.5"	0.33"	1,730	610	Class A	1.19
Intermediate	9.625"	12.25"	0.352"	3,520	2,070	Class A	1.19 - 1.88
Production	5.5"	8.5"	0.361"	14,360	12,924	Class A	1.19 - 1.55
Tubing	2.375"	N/A	0.19	11,200	5,948	N/A	N/A
Liners	N/A	N/A	N/A	N/A	N/A	N/A	N/A

PACKERS

Kind:				
Sizes:				
Depths Set:				

Ky Willett 2/18/25

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

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

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

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

23) Describe centralizer placement for each casing string:

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

25) Proposed borehole conditioning procedures:

*Note: Attach additional sheets as needed.

Well Name: Abbey South 8MH		 DIVERSIFIED energy  LONG RIDGE ENERGY & POWER  AUXENERGY Notes: - Formation depths are estimates - Casing Depths subject to change based on as-drilled geologic depths - Casing weights/grades subject to change, but only if a higher weight/grade is used - Cement additives may include Antifoam, LCM, accelerator, Retarder, Fluid Loss, Gas Migration, etc to meet needed properties. - Detailed program will be distributed before drilling the well					
Pad Name: Abbey							
Rig KB (ft): 28							
Target: Marcellus							
<u>TVD</u>	<u>Geology</u>		<u>Hole Size & MW</u>	<u>Casing</u> (Size Wt Grade Connection)	<u>Cement</u>	<u>Centralizers & Wellbore Conditioning</u>	
100'	Conductor	<u>Wellhead</u> 13-5/8" 5k	26 "	20" 52.73# Grade A PE&B Conductor		No Centralizers Hole is auger drilled: No conditioning required.	
Surface	160' 623' 583'	750' MD 750' TVD	17-1/2"	13 3/8 48# H40 BTC	<u>Tail (50% OH excess)</u> 15.6 ppg Class A Cement to surface	Every 3rd joint from shoe to surface	
			Air/FW Mist Fluid Drill with FW if air pack unavailable			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.	
	750'		Casing Point TVD				
	Intermediate		1,146' 1,207' 1,291' 1,666' 1,766' 2,055' 2,225' 2,295' 2,545'			2545' MD 2545' TVD	12-1/4"
		Air/FW Mist Fluid Drill with FW if air pack unavailable	Condition hole with 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	2,975' 4,300'	KOP 7850' MD 6786' TVD	8-3/4"	5 1/2 20# HP P110 Semi- Premium	<u>Tail (10% OH excess)</u> 15.2 ppg Class A Top of Tail @ ~6850'	Every other joint from shoe to Top of Cement	
	6,786'		KOP (TVD)				
	7,040' 7,080'		Burkett Shale Tully Limestone				
	7,140' 7,083'		Hamilton Shale Marcellus Shale				
	7,210' 7,219'		Landing Point (TVD) Onondaga				
		<u>Landing Point</u> 8792' MD 7210' TVD Dip Angle = 91.5	17,243' Lateral		<u>BHL</u> 26035' MD 6758' TVD		



SECTION DETAILS										
	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	2750.00	0.00	0.00	2750.00	0.00	0.00	0.00	0.00	0.00	KOP; Begin 2.00° Build
	3150.00	8.00	45.00	3148.70	19.71	19.71	2.00	45.00	-12.20	Continue 2.00° Build/Turn
	5079.53	45.52	72.87	4844.65	329.19	802.29	2.00	32.33	-49.31	Hold 45.52° Tangent
	7850.03	45.52	72.87	6785.83	911.42	2691.33	0.00	0.00	16.92	Begin 10.00° Build/Turn
	8659.08	81.34	158.59	7201.69	564.48	3200.73	10.00	93.24	511.13	Continue 10.00° Build/Turn
7	8791.97	91.50	150.00	7210.00	445.27	3258.18	10.00	-40.50	642.56	Hold 91.50° Lateral
8	9891.97	91.50	150.00	7181.21	-507.03	3807.99	0.00	0.00	1722.16	Begin 1.50° Turn
9	10783.72	91.50	163.38	7157.76	-1323.86	4159.93	1.50	89.83	2609.13	Hold 163.38° Az
10	14252.75	91.50	163.38	7067.00	-4646.84	5151.76	0.00	0.00	6073.85	Begin 1.50° Turn
11	14335.83	91.50	162.13	7064.82	-4726.16	5176.38	1.50	-89.75	6156.86	Hold 162.13° Az
12	19071.64	91.50	162.13	6940.50	-9232.04	6628.76	0.00	0.00	10890.02	Begin 1.50° Turn
13	19443.74	91.50	156.56	6930.74	-9579.97	6759.91	1.50	-89.97	11261.71	Continue 1.50° Turn
14	19736.80	91.50	160.95	6923.06	-9852.96	6866.04	1.50	89.94	11554.38	Hold 160.95° Az
15	26034.80	91.50	160.95	6758.20	-15804.00	8920.96	0.00	0.00	17850.22	PBHL - 26034.80' MD

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LP v8 - Abbey 8MH	7210.00	445.27	3258.18	319452.65	1773608.25	39.3750160	-80.1894342
PBHL v12 - Abbey 8MH	6758.20	-15804.00	8920.96	303203.38	1779271.04	39.3305219	-80.1689747

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

Abbey 8MH

G

T

M

Azimuths to Grid North

True North: 0.45°

Magnetic North: -8.92°

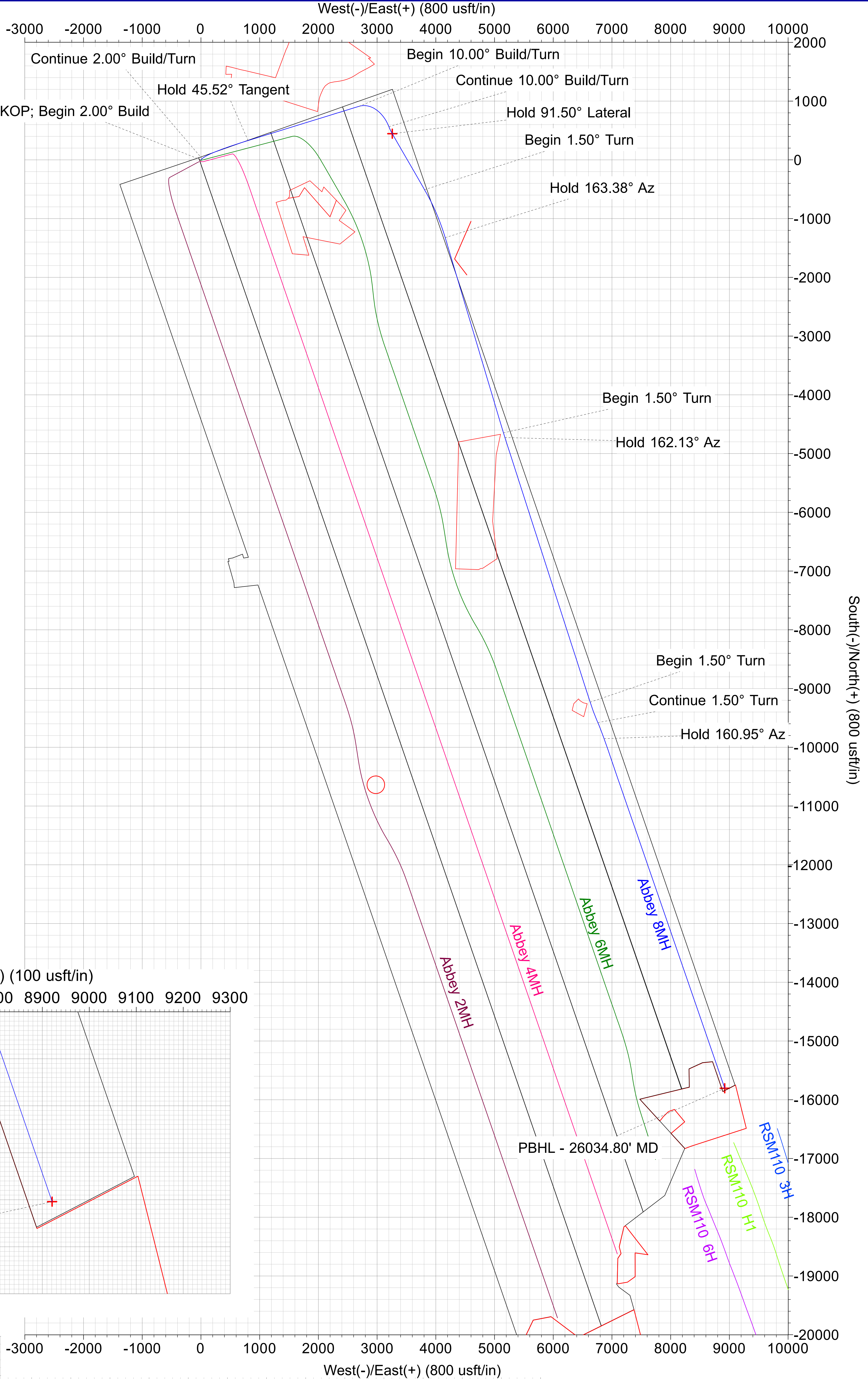
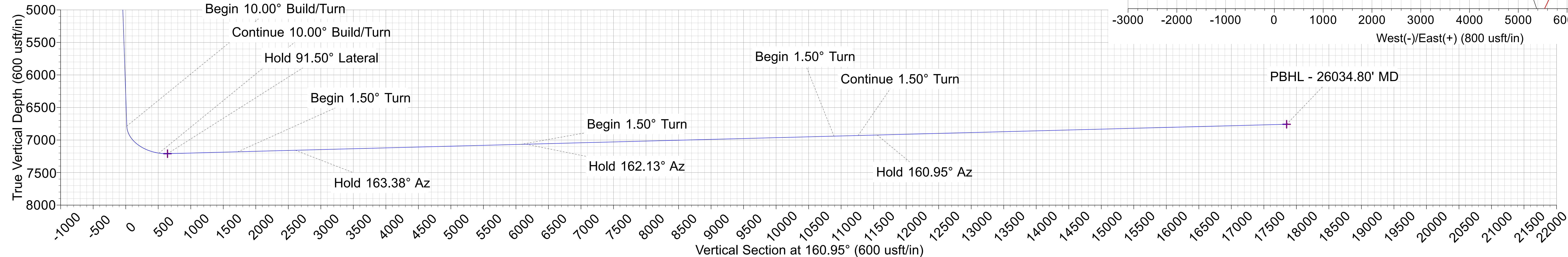
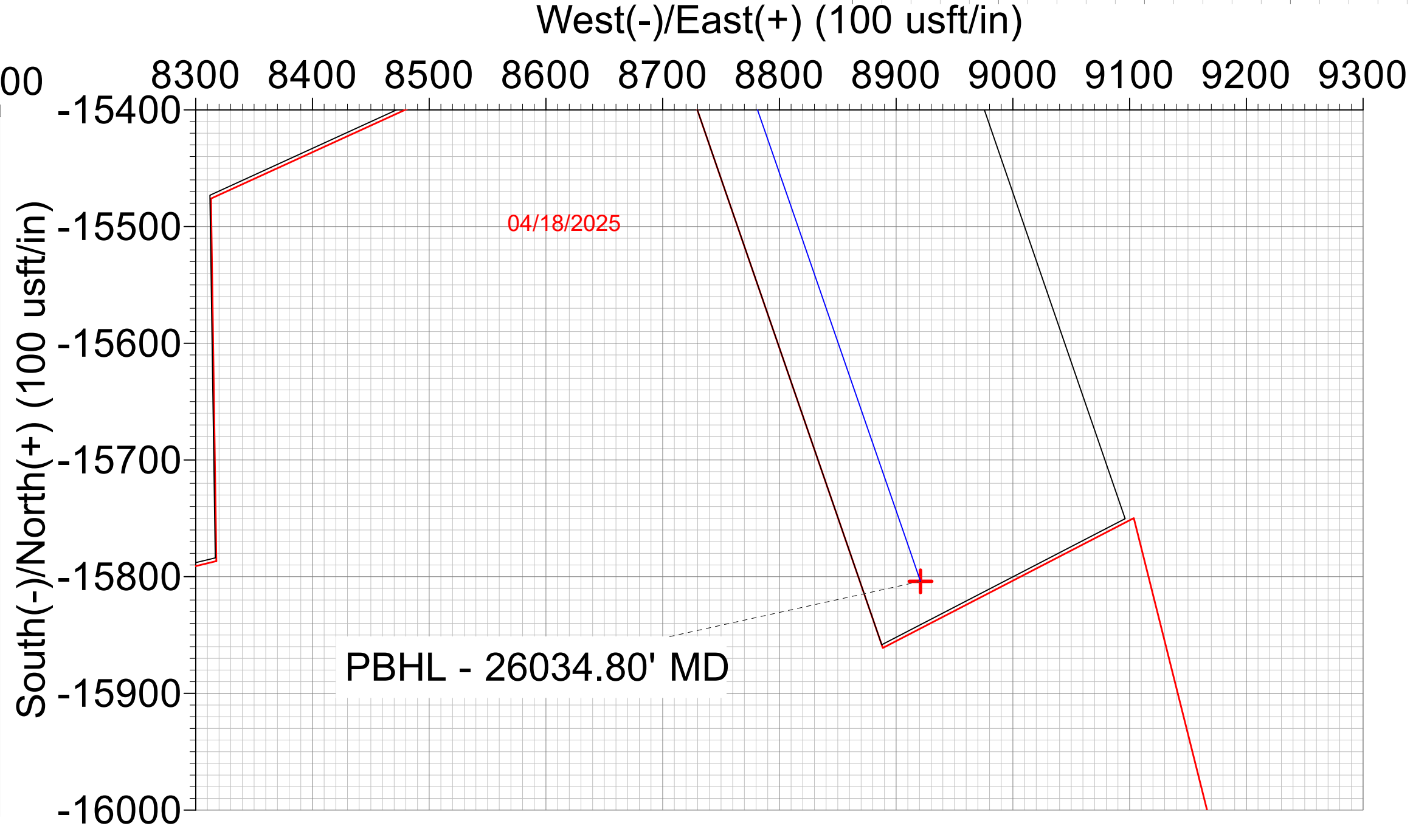
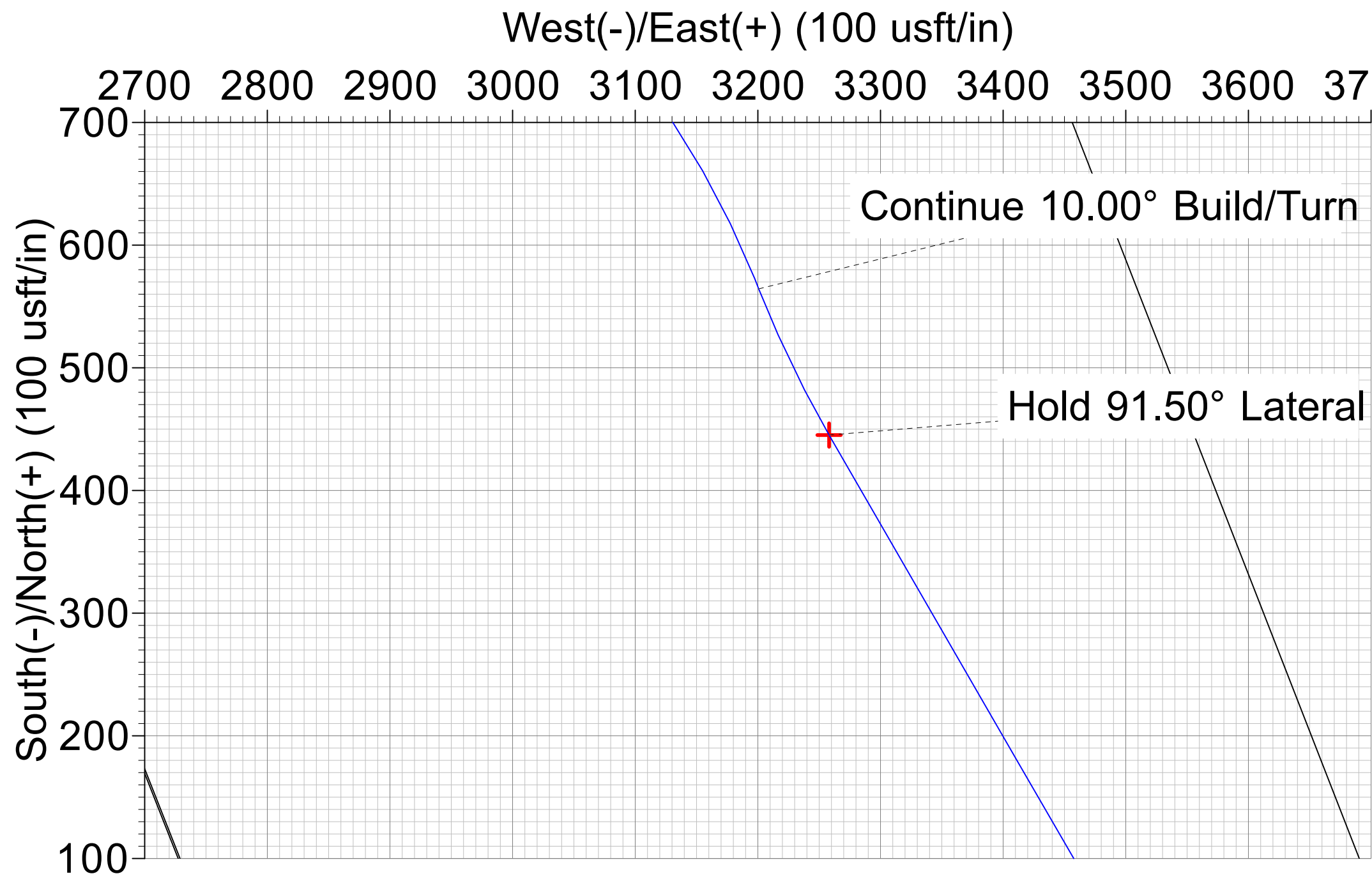
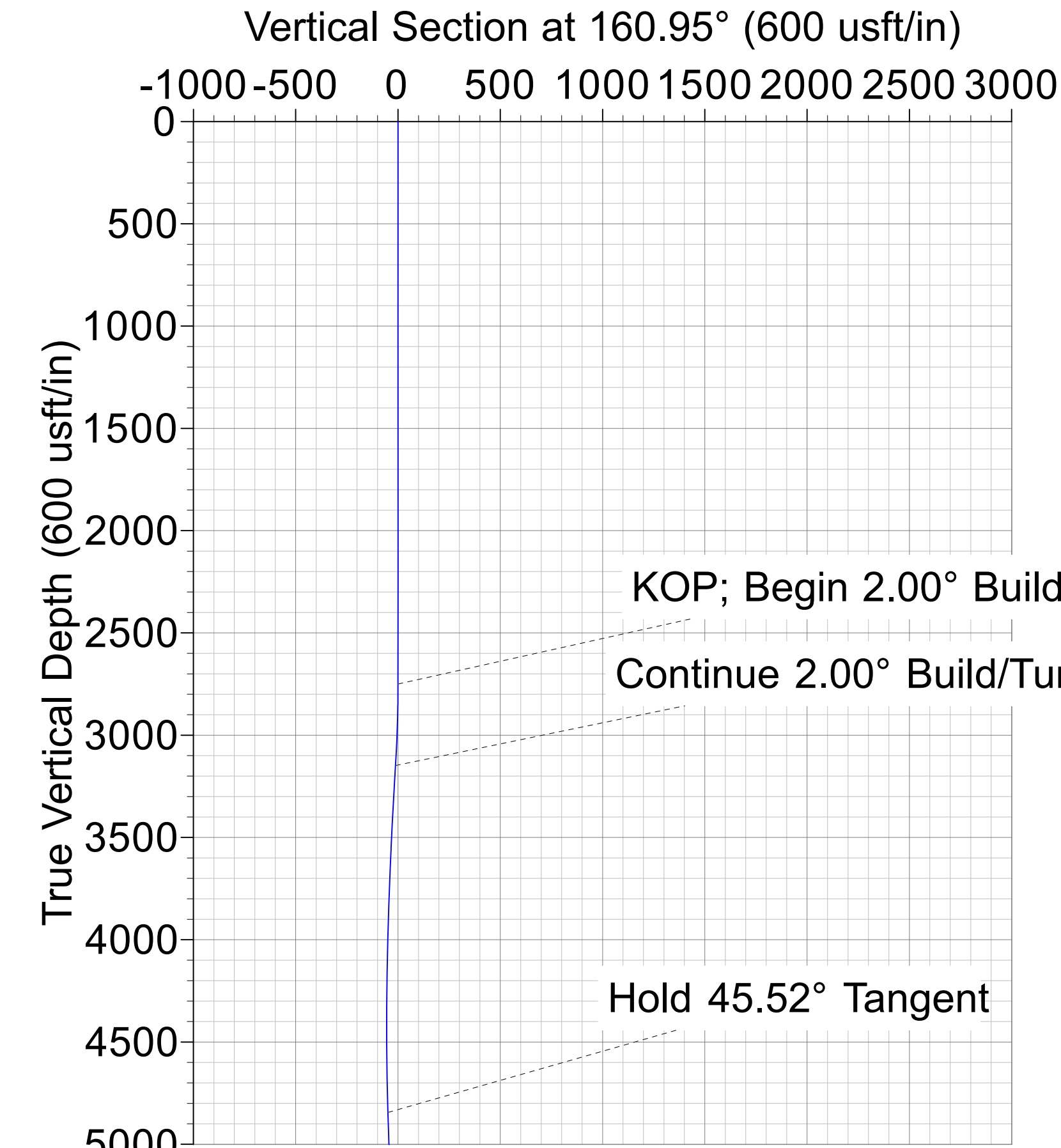
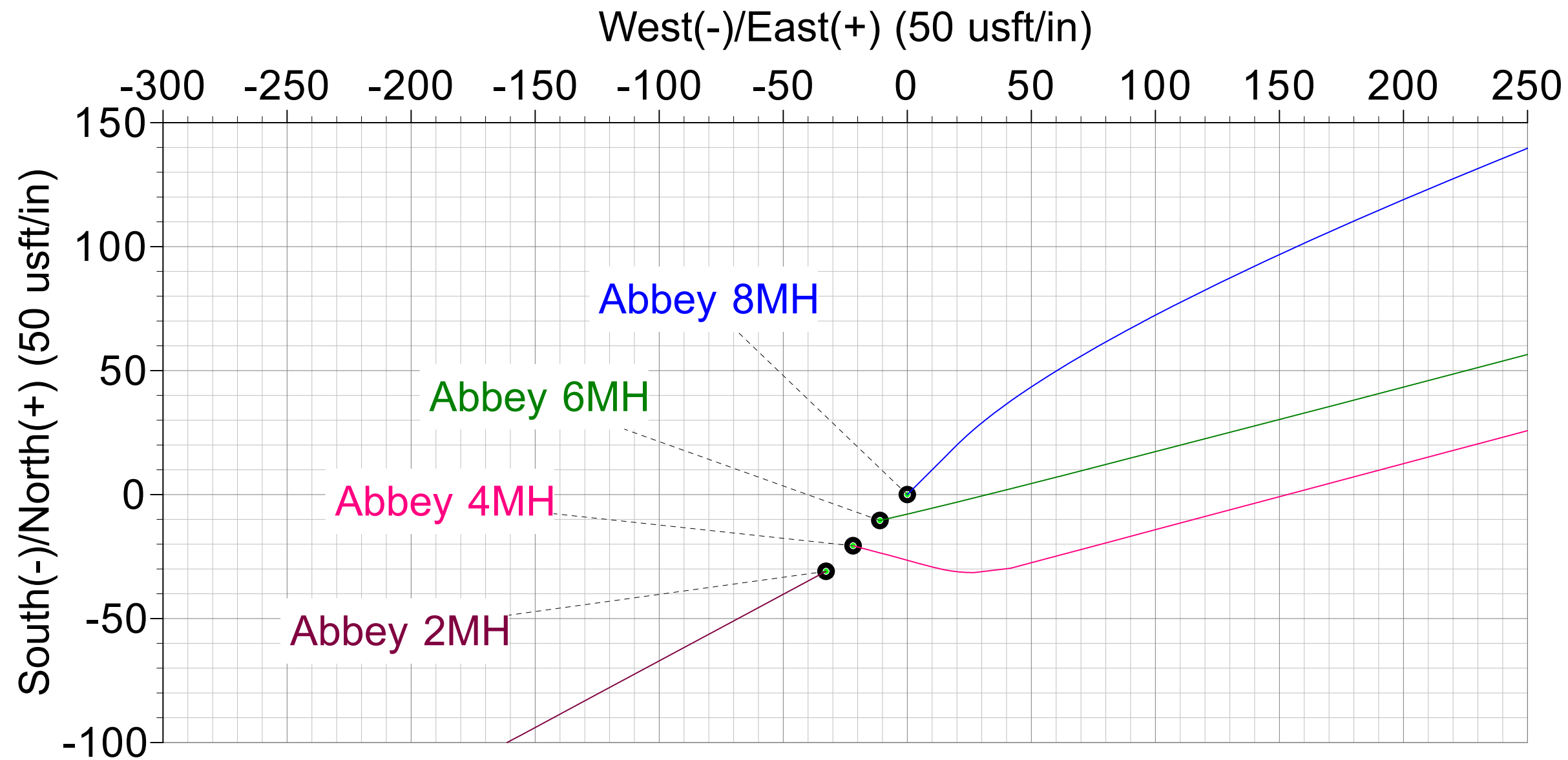
Magnetic Field

Strength: 51458.5nT

Dip Angle: 65.70°

Date: 1/10/2025

Model: HDGM2025



Diversified Production, LLC

Harrison County, WV (NAD83 - GRID)

Abbey Pad

Abbey 8MH

Wellbore #1

Plan: Design #13



Standard Plan Report

07 January, 2025

Total Report Version 1.70

COMPASS 5000.16 Build 97



Company:	Diversified Production, LLC	Local Co-ordinate Reference:	Well Abbey 8MH
Project:	Harrison County, WV (NAD83 - GRID)	TVD Reference:	WELL @ 1024.00usft (28' RKB)
Site:	Abbey Pad	MD Reference:	WELL @ 1024.00usft (28' RKB)
Well:	Abbey 8MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #13	Database:	.Total Directional Production DB

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

Site	Abbey Pad		
Site Position:		Northing:	319,064.16 usft
From:	Map	Easting:	1,770,510.16 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	39.3738837
		Longitude:	-80.2003826

Well	Abbey 8MH		
Well Position	+N/-S	0.00 usft	Northing: 319,007.37 usft
	+E/-W	0.00 usft	Easting: 1,770,350.08 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
Grid Convergence:	-0.45 °	Ground Level:	996.00 usft
		Latitude:	39.3737244
		Longitude:	-80.2009473

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	HDGM2025	1/10/2025	-9.37
			Dip Angle (°) 65.70
			Field Strength (nT) 51,458.50000000

Design	Design #13		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°) 160.95

Survey Tool Program	Date	1/7/2025		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	650.00	Design #13 (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s
650.00	26,034.69	Design #13 (Wellbore #1)	MWD+HRGM	OWSG MWD + HRGM



Company:	Diversified Production, LLC	Local Co-ordinate Reference:	Well Abbey 8MH
Project:	Harrison County, WV (NAD83 - GRID)	TVD Reference:	WELL @ 1024.00usft (28' RKB)
Site:	Abbey Pad	MD Reference:	WELL @ 1024.00usft (28' RKB)
Well:	Abbey 8MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #13	Database:	.Total Directional Production DB

Plan Summary

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,750.00	0.00	0.00	2,750.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,150.00	8.00	45.00	3,148.70	19.71	19.71	2.00	2.00	0.00	45.00	
5,079.53	45.52	72.87	4,844.65	329.19	802.29	2.00	1.94	1.44	32.33	
7,850.03	45.52	72.87	6,785.83	911.42	2,691.33	0.00	0.00	0.00	0.00	
8,659.08	81.34	158.59	7,201.69	564.48	3,200.73	10.00	4.43	10.59	93.24	
8,791.97	91.50	150.00	7,210.00	445.27	3,258.18	10.00	7.65	-6.46	-40.50	LP v8 - Abbey 8MH
9,891.97	91.50	150.00	7,181.21	-507.03	3,807.99	0.00	0.00	0.00	0.00	
10,783.72	91.50	163.38	7,157.76	-1,323.86	4,159.93	1.50	0.00	1.50	89.83	
14,252.75	91.50	163.38	7,067.00	-4,646.84	5,151.76	0.00	0.00	0.00	0.00	
14,335.83	91.50	162.13	7,064.82	-4,726.16	5,176.38	1.50	0.01	-1.50	-89.75	
19,071.64	91.50	162.13	6,940.50	-9,232.04	6,628.76	0.00	0.00	0.00	0.00	
19,443.74	91.50	156.56	6,930.74	-9,579.97	6,759.91	1.50	0.00	-1.50	-89.97	
19,736.80	91.50	160.95	6,923.06	-9,852.96	6,866.04	1.50	0.00	1.50	89.94	
26,034.80	91.50	160.95	6,758.20	-15,804.00	8,920.96	0.00	0.00	0.00	0.00	PBHL v12 - Abbey 8MH

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Geo Coordinates		Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
				+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude (°)	Longitude (°)				
0.00	0.00	0.00	0.00	0.00	0.00	319,007.38	1,770,350.08	39.3737244	-80.2009473	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	319,007.38	1,770,350.08	39.3737244	-80.2009473	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	319,007.38	1,770,350.08	39.3737244	-80.2009473	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	319,007.38	1,770,350.08	39.3737244	-80.2009473	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	319,007.38	1,770,350.08	39.3737244	-80.2009473	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	319,007.38	1,770,350.08	39.3737244	-80.2009473	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	319,007.38	1,770,350.08	39.3737244	-80.2009473	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	319,007.38	1,770,350.08	39.3737244	-80.2009473	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	319,007.38	1,770,350.08	39.3737244	-80.2009473	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	319,007.38	1,770,350.08	39.3737244	-80.2009473	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	319,007.38	1,770,350.08	39.3737244	-80.2009473	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	319,007.38	1,770,350.08	39.3737244	-80.2009473	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	319,007.38	1,770,350.08	39.3737244	-80.2009473	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	319,007.38	1,770,350.08	39.3737244	-80.2009473	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	319,007.38	1,770,350.08	39.3737244	-80.2009473	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	319,007.38	1,770,350.08	39.3737244	-80.2009473	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	319,007.38	1,770,350.08	39.3737244	-80.2009473	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	319,007.38	1,770,350.08	39.3737244	-80.2009473	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	319,007.38	1,770,350.08	39.3737244	-80.2009473	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	319,007.38	1,770,350.08	39.3737244	-80.2009473	0.00	0.00	0.00	0.00



Company:	Diversified Production, LLC	Local Co-ordinate Reference:	Well Abbey 8MH
Project:	Harrison County, WV (NAD83 - GRID)	TVD Reference:	WELL @ 1024.00usft (28' RKB)
Site:	Abbey Pad	MD Reference:	WELL @ 1024.00usft (28' RKB)
Well:	Abbey 8MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #13	Database:	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Map Coordinates Northing (usft)	Easting (usft)	Geo Coordinates Latitude (°)	Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
2,000.00	0.00	0.00	2,000.00	0.00	0.00	319,007.38	1,770,350.08	39.3737244	-80.2009473	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	319,007.38	1,770,350.08	39.3737244	-80.2009473	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	319,007.38	1,770,350.08	39.3737244	-80.2009473	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	319,007.38	1,770,350.08	39.3737244	-80.2009473	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	319,007.38	1,770,350.08	39.3737244	-80.2009473	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	319,007.38	1,770,350.08	39.3737244	-80.2009473	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	319,007.38	1,770,350.08	39.3737244	-80.2009473	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	319,007.38	1,770,350.08	39.3737244	-80.2009473	0.00	0.00	0.00	0.00
2,750.00	0.00	0.00	2,750.00	0.00	0.00	319,007.38	1,770,350.08	39.3737244	-80.2009473	0.00	0.00	0.00	0.00
2,800.00	1.00	45.00	2,800.00	0.31	0.31	319,007.69	1,770,350.39	39.3737252	-80.2009462	-0.19	2.00	2.00	0.00
2,900.00	3.00	45.00	2,899.93	2.78	2.78	319,010.15	1,770,352.85	39.3737321	-80.2009376	-1.72	2.00	2.00	0.00
3,000.00	5.00	45.00	2,999.68	7.71	7.71	319,015.09	1,770,357.79	39.3737457	-80.2009202	-4.77	2.00	2.00	0.00
3,100.00	7.00	45.00	3,099.13	15.10	15.10	319,022.48	1,770,365.18	39.3737662	-80.2008943	-9.34	2.00	2.00	0.00
3,150.00	8.00	45.00	3,148.70	19.71	19.71	319,027.09	1,770,369.79	39.3737789	-80.2008781	-12.20	2.00	2.00	0.00
3,200.00	8.86	48.47	3,198.16	24.73	25.06	319,032.11	1,770,375.13	39.3737928	-80.2008593	-15.19	2.00	1.72	6.95
3,300.00	10.66	53.71	3,296.71	35.31	38.28	319,042.69	1,770,388.35	39.3738221	-80.2008129	-20.88	2.00	1.79	5.23
3,400.00	12.51	57.42	3,394.67	46.61	54.86	319,053.99	1,770,404.93	39.3738535	-80.2007545	-26.16	2.00	1.86	3.72
3,500.00	14.41	60.18	3,491.92	58.63	74.78	319,066.01	1,770,424.86	39.3738870	-80.2006844	-31.01	2.00	1.89	2.76
3,600.00	16.33	62.31	3,588.34	71.35	98.02	319,078.73	1,770,448.10	39.3739224	-80.2006025	-35.45	2.00	1.92	2.13
3,700.00	18.26	64.00	3,683.82	84.75	124.55	319,092.13	1,770,474.63	39.3739597	-80.2005091	-39.46	2.00	1.94	1.69
3,800.00	20.21	65.38	3,778.23	98.82	154.34	319,106.19	1,770,504.42	39.3739990	-80.2004041	-43.03	2.00	1.95	1.37
3,900.00	22.17	66.52	3,871.47	113.53	187.35	319,120.91	1,770,537.43	39.3740401	-80.2002877	-46.16	2.00	1.96	1.14
4,000.00	24.13	67.48	3,963.41	128.88	223.54	319,136.26	1,770,573.62	39.3740830	-80.2001601	-48.86	2.00	1.96	0.96
4,100.00	26.10	68.31	4,053.95	144.84	262.87	319,152.22	1,770,612.94	39.3741277	-80.2000215	-51.11	2.00	1.97	0.83
4,200.00	28.07	69.03	4,142.98	161.39	305.28	319,168.77	1,770,655.36	39.3741740	-80.1998719	-52.91	2.00	1.97	0.72
4,300.00	30.05	69.66	4,230.39	178.52	350.73	319,185.89	1,770,700.81	39.3742220	-80.1997116	-54.26	2.00	1.98	0.63
4,400.00	32.03	70.22	4,316.07	196.19	399.17	319,203.57	1,770,749.24	39.3742716	-80.1995407	-55.16	2.00	1.98	0.56
4,500.00	34.01	70.72	4,399.91	214.40	450.52	319,221.78	1,770,800.60	39.3743226	-80.1993596	-55.61	2.00	1.98	0.50
4,600.00	35.99	71.18	4,481.82	233.12	504.74	319,240.49	1,770,854.82	39.3743752	-80.1991683	-55.61	2.00	1.98	0.45
4,700.00	37.98	71.59	4,561.70	252.32	561.75	319,259.70	1,770,911.83	39.3744291	-80.1989672	-55.15	2.00	1.98	0.41
4,800.00	39.96	71.96	4,639.44	271.98	621.49	319,279.36	1,770,971.56	39.3744844	-80.1987564	-54.24	2.00	1.99	0.38
4,900.00	41.95	72.31	4,714.96	292.08	683.87	319,299.46	1,771,033.95	39.3745409	-80.1985363	-52.88	2.00	1.99	0.35
5,000.00	43.94	72.63	4,788.15	312.60	748.84	319,319.98	1,771,098.91	39.3745986	-80.1983070	-51.07	2.00	1.99	0.32
5,079.53	45.52	72.87	4,844.65	329.19	802.29	319,336.57	1,771,152.36	39.3746453	-80.1981184	-49.31	2.00	1.99	0.30
5,100.00	45.52	72.87	4,859.00	333.50	816.24	319,340.87	1,771,166.32	39.3746574	-80.1980692	-48.82	0.00	0.00	0.00
5,200.00	45.52	72.87	4,929.06	354.51	884.43	319,361.89	1,771,234.50	39.3747166	-80.1978285	-46.43	0.00	0.00	0.00
5,300.00	45.52	72.87	4,999.13	375.53	952.61	319,382.90	1,771,302.69	39.3747757	-80.1975879	-44.03	0.00	0.00	0.00
5,400.00	45.52	72.87	5,069.19	396.54	1,020.80	319,403.92	1,771,370.87	39.3748349	-80.1973473	-41.64	0.00	0.00	0.00



Company:	Diversified Production, LLC	Local Co-ordinate Reference:	Well Abbey 8MH
Project:	Harrison County, WV (NAD83 - GRID)	TVD Reference:	WELL @ 1024.00usft (28' RKB)
Site:	Abbey Pad	MD Reference:	WELL @ 1024.00usft (28' RKB)
Well:	Abbey 8MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #13	Database:	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Map Coordinates Northing (usft)	Easting (usft)	Geo Coordinates Latitude (°)	Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,500.00	45.52	72.87	5,139.26	417.56	1,088.98	319,424.94	1,771,439.06	39.3748940	-80.1971067	-39.25	0.00	0.00	0.00
5,600.00	45.52	72.87	5,209.33	438.57	1,157.17	319,445.95	1,771,507.24	39.3749532	-80.1968661	-36.86	0.00	0.00	0.00
5,700.00	45.52	72.87	5,279.39	459.59	1,225.35	319,466.97	1,771,575.43	39.3750123	-80.1966255	-34.47	0.00	0.00	0.00
5,800.00	45.52	72.87	5,349.46	480.60	1,293.53	319,487.98	1,771,643.61	39.3750715	-80.1963848	-32.08	0.00	0.00	0.00
5,900.00	45.52	72.87	5,419.52	501.62	1,361.72	319,509.00	1,771,711.80	39.3751306	-80.1961442	-29.69	0.00	0.00	0.00
6,000.00	45.52	72.87	5,489.59	522.63	1,429.90	319,530.01	1,771,779.98	39.3751898	-80.1959036	-27.30	0.00	0.00	0.00
6,100.00	45.52	72.87	5,559.66	543.65	1,498.09	319,551.03	1,771,848.16	39.3752489	-80.1956630	-24.91	0.00	0.00	0.00
6,200.00	45.52	72.87	5,629.72	564.67	1,566.27	319,572.04	1,771,916.35	39.3753081	-80.1954224	-22.52	0.00	0.00	0.00
6,300.00	45.52	72.87	5,699.79	585.68	1,634.46	319,593.06	1,771,984.53	39.3753672	-80.1951817	-20.13	0.00	0.00	0.00
6,400.00	45.52	72.87	5,769.85	606.70	1,702.64	319,614.07	1,772,052.72	39.3754263	-80.1949411	-17.74	0.00	0.00	0.00
6,500.00	45.52	72.87	5,839.92	627.71	1,770.82	319,635.09	1,772,120.90	39.3754855	-80.1947005	-15.35	0.00	0.00	0.00
6,600.00	45.52	72.87	5,909.99	648.73	1,839.01	319,656.10	1,772,189.09	39.3755446	-80.1944599	-12.96	0.00	0.00	0.00
6,700.00	45.52	72.87	5,980.05	669.74	1,907.19	319,677.12	1,772,257.27	39.3756038	-80.1942193	-10.57	0.00	0.00	0.00
6,800.00	45.52	72.87	6,050.12	690.76	1,975.38	319,698.13	1,772,325.45	39.3756629	-80.1939786	-8.18	0.00	0.00	0.00
6,900.00	45.52	72.87	6,120.18	711.77	2,043.56	319,719.15	1,772,393.64	39.3757221	-80.1937380	-5.79	0.00	0.00	0.00
7,000.00	45.52	72.87	6,190.25	732.79	2,111.75	319,740.17	1,772,461.82	39.3757812	-80.1934974	-3.40	0.00	0.00	0.00
7,100.00	45.52	72.87	6,260.32	753.80	2,179.93	319,761.18	1,772,530.01	39.3758403	-80.1932568	-1.01	0.00	0.00	0.00
7,200.00	45.52	72.87	6,330.38	774.82	2,248.12	319,782.20	1,772,598.19	39.3758995	-80.1930161	1.38	0.00	0.00	0.00
7,300.00	45.52	72.87	6,400.45	795.83	2,316.30	319,803.21	1,772,666.38	39.3759586	-80.1927755	3.78	0.00	0.00	0.00
7,400.00	45.52	72.87	6,470.51	816.85	2,384.48	319,824.23	1,772,734.56	39.3760178	-80.1925349	6.17	0.00	0.00	0.00
7,500.00	45.52	72.87	6,540.58	837.86	2,452.67	319,845.24	1,772,802.75	39.3760769	-80.1922943	8.56	0.00	0.00	0.00
7,600.00	45.52	72.87	6,610.65	858.88	2,520.85	319,866.26	1,772,870.93	39.3761360	-80.1920536	10.95	0.00	0.00	0.00
7,700.00	45.52	72.87	6,680.71	879.90	2,589.04	319,887.27	1,772,939.11	39.3761952	-80.1918130	13.34	0.00	0.00	0.00
7,800.00	45.52	72.87	6,750.78	900.91	2,657.22	319,908.29	1,773,007.30	39.3762543	-80.1915724	15.73	0.00	0.00	0.00
7,850.03	45.52	72.87	6,785.83	911.42	2,691.33	319,918.80	1,773,041.41	39.3762839	-80.1914520	16.92	0.00	0.00	0.00
7,900.00	45.45	79.88	6,820.89	919.81	2,725.92	319,927.19	1,773,076.00	39.3763077	-80.1913299	20.29	10.00	-0.14	14.03
7,950.00	45.81	86.86	6,855.87	923.93	2,761.38	319,931.30	1,773,111.46	39.3763197	-80.1912046	27.97	10.00	0.72	13.96
8,000.00	46.59	93.70	6,890.50	923.74	2,797.43	319,931.11	1,773,147.50	39.3763200	-80.1910770	39.91	10.00	1.55	13.69
8,050.00	47.76	100.33	6,924.51	919.24	2,833.78	319,926.62	1,773,183.86	39.3763084	-80.1909483	56.03	10.00	2.35	13.26
8,100.00	49.30	106.68	6,957.64	910.48	2,870.17	319,917.86	1,773,220.25	39.3762851	-80.1908194	76.19	10.00	3.08	12.70
8,150.00	51.17	112.71	6,989.63	897.51	2,906.32	319,904.89	1,773,256.39	39.3762503	-80.1906911	100.24	10.00	3.74	12.07
8,200.00	53.34	118.41	7,020.25	880.44	2,941.94	319,887.82	1,773,292.02	39.3762041	-80.1905646	128.01	10.00	4.33	11.40
8,250.00	55.76	123.79	7,049.27	859.39	2,976.78	319,866.77	1,773,326.86	39.3761471	-80.1904408	159.28	10.00	4.84	10.74
8,300.00	58.40	128.84	7,076.45	834.53	3,010.57	319,841.90	1,773,360.64	39.3760795	-80.1903207	193.80	10.00	5.28	10.12
8,350.00	61.23	133.61	7,101.60	806.04	3,043.04	319,813.42	1,773,393.11	39.3760020	-80.1902050	231.33	10.00	5.66	9.54
8,400.00	64.22	138.12	7,124.52	774.14	3,073.95	319,781.52	1,773,424.03	39.3759151	-80.1900948	271.57	10.00	5.98	9.02
8,450.00	67.34	142.41	7,145.04	739.08	3,103.07	319,746.45	1,773,453.14	39.3758194	-80.1899908	314.22	10.00	6.24	8.57



Company:	Diversified Production, LLC	Local Co-ordinate Reference:	Well Abbey 8MH
Project:	Harrison County, WV (NAD83 - GRID)	TVD Reference:	WELL @ 1024.00usft (28' RKB)
Site:	Abbey Pad	MD Reference:	WELL @ 1024.00usft (28' RKB)
Well:	Abbey 8MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #13	Database:	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Map Coordinates Northing (usft)	Easting (usft)	Geo Coordinates Latitude (°)	Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,500.00	70.57	146.50	7,163.00	701.11	3,130.17	319,708.49	1,773,480.25	39.3757158	-80.1898939	358.95	10.00	6.46	8.18
8,550.00	73.88	150.43	7,178.27	660.54	3,155.05	319,667.92	1,773,505.13	39.3756049	-80.1898048	405.42	10.00	6.63	7.86
8,600.00	77.27	154.23	7,190.73	617.66	3,177.52	319,625.04	1,773,527.60	39.3754877	-80.1897242	453.29	10.00	6.77	7.60
8,650.00	80.71	157.93	7,200.28	572.81	3,197.41	319,580.19	1,773,547.48	39.3753649	-80.1896526	502.17	10.00	6.88	7.40
8,659.08	81.34	158.59	7,201.69	564.48	3,200.73	319,571.86	1,773,550.81	39.3753421	-80.1896406	511.13	10.00	6.93	7.30
8,700.00	84.46	155.92	7,206.75	527.04	3,216.43	319,534.42	1,773,566.51	39.3752397	-80.1895841	551.64	10.00	7.62	-6.52
8,750.00	88.28	152.70	7,209.92	482.09	3,238.06	319,489.47	1,773,588.14	39.3751167	-80.1895063	601.19	10.00	7.65	-6.45
8,791.97	91.50	150.00	7,210.00	445.27	3,258.18	319,452.65	1,773,608.25	39.3750161	-80.1894342	642.56	10.00	7.66	-6.42
8,800.00	91.50	150.00	7,209.79	438.32	3,262.19	319,445.69	1,773,612.27	39.3749971	-80.1894198	650.45	0.00	0.00	0.00
8,900.00	91.50	150.00	7,207.17	351.74	3,312.17	319,359.12	1,773,662.25	39.3747604	-80.1892406	748.59	0.00	0.00	0.00
9,000.00	91.50	150.00	7,204.55	265.17	3,362.16	319,272.55	1,773,712.23	39.3745238	-80.1890615	846.74	0.00	0.00	0.00
9,100.00	91.50	150.00	7,201.94	178.60	3,412.14	319,185.98	1,773,762.22	39.3742872	-80.1888823	944.88	0.00	0.00	0.00
9,200.00	91.50	150.00	7,199.32	92.03	3,462.12	319,099.40	1,773,812.20	39.3740505	-80.1887032	1,043.03	0.00	0.00	0.00
9,300.00	91.50	150.00	7,196.70	5.45	3,512.11	319,012.83	1,773,862.18	39.3738139	-80.1885240	1,141.17	0.00	0.00	0.00
9,400.00	91.50	150.00	7,194.08	-81.12	3,562.09	318,926.26	1,773,912.17	39.3735773	-80.1883449	1,239.32	0.00	0.00	0.00
9,500.00	91.50	150.00	7,191.47	-167.69	3,612.07	318,839.68	1,773,962.15	39.3733407	-80.1881657	1,337.47	0.00	0.00	0.00
9,600.00	91.50	150.00	7,188.85	-254.27	3,662.05	318,753.11	1,774,012.13	39.3731040	-80.1879866	1,435.61	0.00	0.00	0.00
9,700.00	91.50	150.00	7,186.23	-340.84	3,712.04	318,666.54	1,774,062.11	39.3728674	-80.1878074	1,533.76	0.00	0.00	0.00
9,800.00	91.50	150.00	7,183.61	-427.41	3,762.02	318,579.97	1,774,112.10	39.3726308	-80.1876283	1,631.90	0.00	0.00	0.00
9,891.97	91.50	150.00	7,181.21	-507.03	3,807.99	318,500.35	1,774,158.07	39.3724131	-80.1874635	1,722.16	0.00	0.00	0.00
9,900.00	91.50	150.12	7,181.00	-513.99	3,812.00	318,493.39	1,774,162.07	39.3723941	-80.1874491	1,730.05	1.50	0.00	1.50
10,000.00	91.50	151.62	7,178.37	-601.31	3,860.66	318,406.07	1,774,210.73	39.3721554	-80.1872747	1,828.47	1.50	0.00	1.50
10,100.00	91.51	153.12	7,175.75	-689.87	3,907.01	318,317.50	1,774,257.09	39.3719132	-80.1871083	1,927.31	1.50	0.00	1.50
10,200.00	91.51	154.62	7,173.11	-779.62	3,951.03	318,227.76	1,774,301.11	39.3716678	-80.1869501	2,026.51	1.50	0.00	1.50
10,300.00	91.51	156.12	7,170.48	-870.49	3,992.69	318,136.89	1,774,342.77	39.3714192	-80.1868003	2,126.00	1.50	0.00	1.50
10,400.00	91.51	157.62	7,167.84	-962.42	4,031.95	318,044.96	1,774,382.03	39.3711676	-80.1866590	2,225.71	1.50	0.00	1.50
10,500.00	91.51	159.12	7,165.21	-1,055.34	4,068.79	317,952.03	1,774,418.87	39.3709133	-80.1865261	2,325.57	1.50	0.00	1.50
10,600.00	91.51	160.62	7,162.58	-1,149.20	4,103.19	317,858.17	1,774,453.27	39.3706563	-80.1864019	2,425.52	1.50	0.00	1.50
10,700.00	91.50	162.12	7,159.95	-1,243.93	4,135.12	317,763.45	1,774,485.19	39.3703969	-80.1862865	2,525.48	1.50	0.00	1.50
10,783.72	91.50	163.38	7,157.76	-1,323.86	4,159.93	317,683.52	1,774,510.01	39.3701780	-80.1861965	2,609.13	1.50	0.00	1.50
10,800.00	91.50	163.38	7,157.34	-1,339.45	4,164.59	317,667.93	1,774,514.66	39.3701353	-80.1861796	2,625.39	0.00	0.00	0.00
10,900.00	91.50	163.38	7,154.72	-1,435.24	4,193.18	317,572.14	1,774,543.25	39.3698729	-80.1860759	2,725.26	0.00	0.00	0.00
11,000.00	91.50	163.38	7,152.10	-1,531.03	4,221.77	317,476.35	1,774,571.84	39.3696105	-80.1859722	2,825.14	0.00	0.00	0.00
11,100.00	91.50	163.38	7,149.49	-1,626.82	4,250.36	317,380.56	1,774,600.43	39.3693481	-80.1858685	2,925.01	0.00	0.00	0.00
11,200.00	91.50	163.38	7,146.87	-1,722.61	4,278.95	317,284.77	1,774,629.03	39.3690857	-80.1857648	3,024.89	0.00	0.00	0.00
11,300.00	91.50	163.38	7,144.25	-1,818.40	4,307.54	317,188.98	1,774,657.62	39.3688233	-80.1856611	3,124.77	0.00	0.00	0.00
11,400.00	91.50	163.38	7,141.64	-1,914.19	4,336.13	317,093.19	1,774,686.21	39.3685609	-80.1855573	3,224.64	0.00	0.00	0.00
11,500.00	91.50	163.38	7,139.02	-2,009.98	4,364.72	316,997.40	1,774,714.80	39.3682986	-80.1854536	3,324.52	0.00	0.00	0.00



Company:	Diversified Production, LLC	Local Co-ordinate Reference:	Well Abbey 8MH
Project:	Harrison County, WV (NAD83 - GRID)	TVD Reference:	WELL @ 1024.00usft (28' RKB)
Site:	Abbey Pad	MD Reference:	WELL @ 1024.00usft (28' RKB)
Well:	Abbey 8MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #13	Database:	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,600.00	91.50	163.38	7,136.41	-2,105.77	4,393.31	316,901.61	1,774,743.39	39.3680362	-80.1853499	3,424.39	0.00	0.00	0.00
11,700.00	91.50	163.38	7,133.79	-2,201.56	4,421.90	316,805.82	1,774,771.98	39.3677738	-80.1852462	3,524.27	0.00	0.00	0.00
11,800.00	91.50	163.38	7,131.17	-2,297.35	4,450.49	316,710.03	1,774,800.57	39.3675114	-80.1851425	3,624.15	0.00	0.00	0.00
11,900.00	91.50	163.38	7,128.56	-2,393.14	4,479.09	316,614.24	1,774,829.16	39.3672490	-80.1850388	3,724.02	0.00	0.00	0.00
12,000.00	91.50	163.38	7,125.94	-2,488.93	4,507.68	316,518.45	1,774,857.75	39.3669866	-80.1849351	3,823.90	0.00	0.00	0.00
12,100.00	91.50	163.38	7,123.32	-2,584.72	4,536.27	316,422.66	1,774,886.34	39.3667242	-80.1848314	3,923.77	0.00	0.00	0.00
12,200.00	91.50	163.38	7,120.71	-2,680.51	4,564.86	316,326.87	1,774,914.94	39.3664618	-80.1847277	4,023.65	0.00	0.00	0.00
12,300.00	91.50	163.38	7,118.09	-2,776.30	4,593.45	316,231.08	1,774,943.53	39.3661994	-80.1846240	4,123.52	0.00	0.00	0.00
12,400.00	91.50	163.38	7,115.47	-2,872.09	4,622.04	316,135.29	1,774,972.12	39.3659371	-80.1845202	4,223.40	0.00	0.00	0.00
12,500.00	91.50	163.38	7,112.86	-2,967.88	4,650.63	316,039.50	1,775,000.71	39.3656747	-80.1844165	4,323.28	0.00	0.00	0.00
12,600.00	91.50	163.38	7,110.24	-3,063.67	4,679.22	315,943.71	1,775,029.30	39.3654123	-80.1843128	4,423.15	0.00	0.00	0.00
12,700.00	91.50	163.38	7,107.63	-3,159.46	4,707.81	315,847.92	1,775,057.89	39.3651499	-80.1842091	4,523.03	0.00	0.00	0.00
12,800.00	91.50	163.38	7,105.01	-3,255.25	4,736.40	315,752.13	1,775,086.48	39.3648875	-80.1841054	4,622.90	0.00	0.00	0.00
12,900.00	91.50	163.38	7,102.39	-3,351.04	4,765.00	315,656.34	1,775,115.07	39.3646251	-80.1840017	4,722.78	0.00	0.00	0.00
13,000.00	91.50	163.38	7,099.78	-3,446.83	4,793.59	315,560.55	1,775,143.66	39.3643627	-80.1838980	4,822.66	0.00	0.00	0.00
13,100.00	91.50	163.38	7,097.16	-3,542.62	4,822.18	315,464.76	1,775,172.25	39.3641003	-80.1837943	4,922.53	0.00	0.00	0.00
13,200.00	91.50	163.38	7,094.54	-3,638.41	4,850.77	315,368.97	1,775,200.85	39.3638379	-80.1836906	5,022.41	0.00	0.00	0.00
13,300.00	91.50	163.38	7,091.93	-3,734.20	4,879.36	315,273.18	1,775,229.44	39.3635756	-80.1835869	5,122.28	0.00	0.00	0.00
13,400.00	91.50	163.38	7,089.31	-3,829.99	4,907.95	315,177.39	1,775,258.03	39.3633132	-80.1834832	5,222.16	0.00	0.00	0.00
13,500.00	91.50	163.38	7,086.69	-3,925.78	4,936.54	315,081.60	1,775,286.62	39.3630508	-80.1833795	5,322.03	0.00	0.00	0.00
13,600.00	91.50	163.38	7,084.08	-4,021.57	4,965.13	314,985.81	1,775,315.21	39.3627884	-80.1832758	5,421.91	0.00	0.00	0.00
13,700.00	91.50	163.38	7,081.46	-4,117.36	4,993.72	314,890.02	1,775,343.80	39.3625260	-80.1831721	5,521.79	0.00	0.00	0.00
13,800.00	91.50	163.38	7,078.85	-4,213.15	5,022.31	314,794.23	1,775,372.39	39.3622636	-80.1830684	5,621.66	0.00	0.00	0.00
13,900.00	91.50	163.38	7,076.23	-4,308.94	5,050.91	314,698.44	1,775,400.98	39.3620012	-80.1829647	5,721.54	0.00	0.00	0.00
14,000.00	91.50	163.38	7,073.61	-4,404.73	5,079.50	314,602.65	1,775,429.57	39.3617388	-80.1828611	5,821.41	0.00	0.00	0.00
14,100.00	91.50	163.38	7,071.00	-4,500.52	5,108.09	314,506.86	1,775,458.16	39.3614764	-80.1827574	5,921.29	0.00	0.00	0.00
14,200.00	91.50	163.38	7,068.38	-4,596.31	5,136.68	314,411.07	1,775,486.75	39.3612141	-80.1826537	6,021.16	0.00	0.00	0.00
14,252.75	91.50	163.38	7,067.00	-4,646.84	5,151.76	314,360.54	1,775,501.84	39.3610756	-80.1825990	6,073.85	0.00	0.00	0.00
14,300.00	91.50	162.67	7,065.76	-4,692.01	5,165.55	314,315.36	1,775,515.63	39.3609519	-80.1825490	6,121.05	1.50	0.01	-1.50
14,335.83	91.50	162.13	7,064.82	-4,726.16	5,176.38	314,281.22	1,775,526.45	39.3608584	-80.1825098	6,156.86	1.50	0.01	-1.50
14,400.00	91.50	162.13	7,063.14	-4,787.21	5,196.06	314,220.17	1,775,546.13	39.3606912	-80.1824385	6,220.99	0.00	0.00	0.00
14,500.00	91.50	162.13	7,060.51	-4,882.36	5,226.72	314,125.02	1,775,576.80	39.3604306	-80.1823275	6,320.94	0.00	0.00	0.00
14,600.00	91.50	162.13	7,057.89	-4,977.50	5,257.39	314,029.88	1,775,607.47	39.3601700	-80.1822165	6,420.88	0.00	0.00	0.00
14,700.00	91.50	162.13	7,055.26	-5,072.65	5,288.06	313,934.73	1,775,638.14	39.3599094	-80.1821055	6,520.82	0.00	0.00	0.00
14,800.00	91.50	162.13	7,052.64	-5,167.79	5,318.73	313,839.59	1,775,668.81	39.3596489	-80.1819945	6,620.77	0.00	0.00	0.00
14,900.00	91.50	162.13	7,050.01	-5,262.94	5,349.40	313,744.44	1,775,699.47	39.3593883	-80.1818835	6,720.71	0.00	0.00	0.00
15,000.00	91.50	162.13	7,047.39	-5,358.08	5,380.07	313,649.30	1,775,730.14	39.3591277	-80.1817724	6,820.66	0.00	0.00	0.00



Company:	Diversified Production, LLC	Local Co-ordinate Reference:	Well Abbey 8MH
Project:	Harrison County, WV (NAD83 - GRID)	TVD Reference:	WELL @ 1024.00usft (28' RKB)
Site:	Abbey Pad	MD Reference:	WELL @ 1024.00usft (28' RKB)
Well:	Abbey 8MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #13	Database:	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,100.00	91.50	162.13	7,044.76	-5,453.23	5,410.73	313,554.15	1,775,760.81	39.3588671	-80.1816614	6,920.60	0.00	0.00	0.00
15,200.00	91.50	162.13	7,042.14	-5,548.37	5,441.40	313,459.01	1,775,791.48	39.3586066	-80.1815504	7,020.55	0.00	0.00	0.00
15,300.00	91.50	162.13	7,039.51	-5,643.52	5,472.07	313,363.86	1,775,822.15	39.3583460	-80.1814394	7,120.49	0.00	0.00	0.00
15,400.00	91.50	162.13	7,036.89	-5,738.66	5,502.74	313,268.72	1,775,852.81	39.3580854	-80.1813284	7,220.43	0.00	0.00	0.00
15,500.00	91.50	162.13	7,034.26	-5,833.81	5,533.41	313,173.57	1,775,883.48	39.3578248	-80.1812174	7,320.38	0.00	0.00	0.00
15,600.00	91.50	162.13	7,031.64	-5,928.95	5,564.07	313,078.43	1,775,914.15	39.3575643	-80.1811064	7,420.32	0.00	0.00	0.00
15,700.00	91.50	162.13	7,029.01	-6,024.10	5,594.74	312,983.28	1,775,944.82	39.3573037	-80.1809954	7,520.27	0.00	0.00	0.00
15,800.00	91.50	162.13	7,026.39	-6,119.24	5,625.41	312,888.14	1,775,975.49	39.3570431	-80.1808844	7,620.21	0.00	0.00	0.00
15,900.00	91.50	162.13	7,023.76	-6,214.39	5,656.08	312,792.99	1,776,006.16	39.3567825	-80.1807733	7,720.15	0.00	0.00	0.00
16,000.00	91.50	162.13	7,021.14	-6,309.53	5,686.75	312,697.85	1,776,036.82	39.3565219	-80.1806623	7,820.10	0.00	0.00	0.00
16,100.00	91.50	162.13	7,018.51	-6,404.68	5,717.41	312,602.70	1,776,067.49	39.3562614	-80.1805513	7,920.04	0.00	0.00	0.00
16,200.00	91.50	162.13	7,015.89	-6,499.82	5,748.08	312,507.56	1,776,098.16	39.3560008	-80.1804403	8,019.99	0.00	0.00	0.00
16,300.00	91.50	162.13	7,013.26	-6,594.97	5,778.75	312,412.41	1,776,128.83	39.3557402	-80.1803293	8,119.93	0.00	0.00	0.00
16,400.00	91.50	162.13	7,010.63	-6,690.11	5,809.42	312,317.27	1,776,159.50	39.3554796	-80.1802183	8,219.88	0.00	0.00	0.00
16,500.00	91.50	162.13	7,008.01	-6,785.26	5,840.09	312,222.12	1,776,190.16	39.3552190	-80.1801073	8,319.82	0.00	0.00	0.00
16,600.00	91.50	162.13	7,005.38	-6,880.40	5,870.76	312,126.98	1,776,220.83	39.3549585	-80.1799963	8,419.76	0.00	0.00	0.00
16,700.00	91.50	162.13	7,002.76	-6,975.55	5,901.42	312,031.83	1,776,251.50	39.3546979	-80.1798853	8,519.71	0.00	0.00	0.00
16,800.00	91.50	162.13	7,000.13	-7,070.69	5,932.09	311,936.69	1,776,282.17	39.3544373	-80.1797743	8,619.65	0.00	0.00	0.00
16,900.00	91.50	162.13	6,997.51	-7,165.84	5,962.76	311,841.54	1,776,312.84	39.3541767	-80.1796633	8,719.60	0.00	0.00	0.00
17,000.00	91.50	162.13	6,994.88	-7,260.98	5,993.43	311,746.40	1,776,343.50	39.3539162	-80.1795523	8,819.54	0.00	0.00	0.00
17,100.00	91.50	162.13	6,992.26	-7,356.13	6,024.10	311,651.25	1,776,374.17	39.3536556	-80.1794413	8,919.48	0.00	0.00	0.00
17,200.00	91.50	162.13	6,989.63	-7,451.27	6,054.76	311,556.11	1,776,404.84	39.3533950	-80.1793303	9,019.43	0.00	0.00	0.00
17,300.00	91.50	162.13	6,987.01	-7,546.42	6,085.43	311,460.96	1,776,435.51	39.3531344	-80.1792193	9,119.37	0.00	0.00	0.00
17,400.00	91.50	162.13	6,984.38	-7,641.56	6,116.10	311,365.82	1,776,466.18	39.3528738	-80.1791083	9,219.32	0.00	0.00	0.00
17,500.00	91.50	162.13	6,981.76	-7,736.71	6,146.77	311,270.67	1,776,496.85	39.3526133	-80.1789973	9,319.26	0.00	0.00	0.00
17,600.00	91.50	162.13	6,979.13	-7,831.85	6,177.44	311,175.53	1,776,527.51	39.3523527	-80.1788864	9,419.21	0.00	0.00	0.00
17,700.00	91.50	162.13	6,976.51	-7,927.00	6,208.10	311,080.38	1,776,558.18	39.3520921	-80.1787754	9,519.15	0.00	0.00	0.00
17,800.00	91.50	162.13	6,973.88	-8,022.14	6,238.77	310,985.24	1,776,588.85	39.3518315	-80.1786644	9,619.09	0.00	0.00	0.00
17,900.00	91.50	162.13	6,971.26	-8,117.29	6,269.44	310,890.09	1,776,619.52	39.3515709	-80.1785534	9,719.04	0.00	0.00	0.00
18,000.00	91.50	162.13	6,968.63	-8,212.43	6,300.11	310,794.95	1,776,650.19	39.3513104	-80.1784424	9,818.98	0.00	0.00	0.00
18,100.00	91.50	162.13	6,966.01	-8,307.58	6,330.78	310,699.80	1,776,680.85	39.3510498	-80.1783314	9,918.93	0.00	0.00	0.00
18,200.00	91.50	162.13	6,963.38	-8,402.72	6,361.45	310,604.66	1,776,711.52	39.3507892	-80.1782204	10,018.87	0.00	0.00	0.00
18,300.00	91.50	162.13	6,960.76	-8,497.87	6,392.11	310,509.51	1,776,742.19	39.3505286	-80.1781094	10,118.82	0.00	0.00	0.00
18,400.00	91.50	162.13	6,958.13	-8,593.01	6,422.78	310,414.37	1,776,772.86	39.3502680	-80.1779984	10,218.76	0.00	0.00	0.00
18,500.00	91.50	162.13	6,955.51	-8,688.16	6,453.45	310,319.22	1,776,803.53	39.3500074	-80.1778875	10,318.70	0.00	0.00	0.00
18,600.00	91.50	162.13	6,952.88	-8,783.30	6,484.12	310,224.08	1,776,834.19	39.3497469	-80.1777765	10,418.65	0.00	0.00	0.00
18,700.00	91.50	162.13	6,950.26	-8,878.45	6,514.79	310,128.93	1,776,864.86	39.3494863	-80.1776655	10,518.59	0.00	0.00	0.00
18,800.00	91.50	162.13	6,947.63	-8,973.59	6,545.45	310,033.79	1,776,895.53	39.3492257	-80.1775545	10,618.54	0.00	0.00	0.00



Company:	Diversified Production, LLC	Local Co-ordinate Reference:	Well Abbey 8MH
Project:	Harrison County, WV (NAD83 - GRID)	TVD Reference:	WELL @ 1024.00usft (28' RKB)
Site:	Abbey Pad	MD Reference:	WELL @ 1024.00usft (28' RKB)
Well:	Abbey 8MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #13	Database:	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Map Coordinates Northing (usft)	Easting (usft)	Geo Coordinates Latitude (°)	Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,900.00	91.50	162.13	6,945.01	-9,068.74	6,576.12	309,938.64	1,776,926.20	39.3489651	-80.1774435	10,718.48	0.00	0.00	0.00
19,000.00	91.50	162.13	6,942.38	-9,163.88	6,606.79	309,843.50	1,776,956.87	39.3487045	-80.1773325	10,818.42	0.00	0.00	0.00
19,071.64	91.50	162.13	6,940.50	-9,232.04	6,628.76	309,775.34	1,776,978.84	39.3485179	-80.1772530	10,890.02	0.00	0.00	0.00
19,100.00	91.50	161.71	6,939.76	-9,258.99	6,637.56	309,748.38	1,776,987.64	39.3484441	-80.1772212	10,918.37	1.50	0.00	-1.50
19,200.00	91.50	160.21	6,937.13	-9,353.49	6,670.17	309,653.89	1,777,020.25	39.3481853	-80.1771034	11,018.33	1.50	0.00	-1.50
19,300.00	91.50	158.71	6,934.51	-9,447.10	6,705.24	309,560.28	1,777,055.32	39.3479290	-80.1769769	11,118.26	1.50	0.00	-1.50
19,400.00	91.50	157.21	6,931.88	-9,539.76	6,742.74	309,467.62	1,777,092.82	39.3476754	-80.1768418	11,218.09	1.50	0.00	-1.50
19,443.74	91.50	156.56	6,930.74	-9,579.97	6,759.91	309,427.40	1,777,109.99	39.3475653	-80.1767800	11,261.71	1.50	0.00	-1.50
19,500.00	91.50	157.40	6,929.26	-9,631.73	6,781.90	309,375.64	1,777,131.98	39.3474237	-80.1767009	11,317.81	1.50	0.00	1.50
19,600.00	91.50	158.90	6,926.65	-9,724.52	6,819.10	309,282.86	1,777,169.18	39.3471697	-80.1765669	11,417.65	1.50	0.00	1.50
19,700.00	91.50	160.40	6,924.03	-9,818.24	6,853.87	309,189.14	1,777,203.94	39.3469131	-80.1764414	11,517.59	1.50	0.00	1.50
19,736.80	91.50	160.95	6,923.06	-9,852.96	6,866.04	309,154.42	1,777,216.12	39.3468181	-80.1763975	11,554.38	1.50	0.00	1.50
19,800.00	91.50	160.95	6,921.41	-9,912.67	6,886.66	309,094.71	1,777,236.74	39.3466546	-80.1763230	11,617.56	0.00	0.00	0.00
19,900.00	91.50	160.95	6,918.79	-10,007.16	6,919.29	309,000.21	1,777,269.37	39.3463958	-80.1762051	11,717.52	0.00	0.00	0.00
20,000.00	91.50	160.95	6,916.17	-10,101.65	6,951.92	308,905.72	1,777,301.99	39.3461371	-80.1760872	11,817.49	0.00	0.00	0.00
20,100.00	91.50	160.95	6,913.56	-10,196.15	6,984.55	308,811.23	1,777,334.62	39.3458783	-80.1759693	11,917.45	0.00	0.00	0.00
20,200.00	91.50	160.95	6,910.94	-10,290.64	7,017.17	308,716.74	1,777,367.25	39.3456196	-80.1758514	12,017.42	0.00	0.00	0.00
20,300.00	91.50	160.95	6,908.32	-10,385.13	7,049.80	308,622.25	1,777,399.88	39.3453608	-80.1757335	12,117.38	0.00	0.00	0.00
20,400.00	91.50	160.95	6,905.70	-10,479.62	7,082.43	308,527.76	1,777,432.51	39.3451021	-80.1756157	12,217.35	0.00	0.00	0.00
20,500.00	91.50	160.95	6,903.08	-10,574.11	7,115.06	308,433.27	1,777,465.13	39.3448433	-80.1754978	12,317.32	0.00	0.00	0.00
20,600.00	91.50	160.95	6,900.47	-10,668.60	7,147.69	308,338.78	1,777,497.76	39.3445846	-80.1753799	12,417.28	0.00	0.00	0.00
20,700.00	91.50	160.95	6,897.85	-10,763.09	7,180.31	308,244.29	1,777,530.39	39.3443258	-80.1752620	12,517.25	0.00	0.00	0.00
20,800.00	91.50	160.95	6,895.23	-10,857.58	7,212.94	308,149.80	1,777,563.02	39.3440671	-80.1751441	12,617.21	0.00	0.00	0.00
20,900.00	91.50	160.95	6,892.61	-10,952.07	7,245.57	308,055.30	1,777,595.65	39.3438083	-80.1750263	12,717.18	0.00	0.00	0.00
21,000.00	91.50	160.95	6,890.00	-11,046.56	7,278.20	307,960.81	1,777,628.28	39.3435496	-80.1749084	12,817.14	0.00	0.00	0.00
21,100.00	91.50	160.95	6,887.38	-11,141.06	7,310.83	307,866.32	1,777,660.90	39.3432908	-80.1747905	12,917.11	0.00	0.00	0.00
21,200.00	91.50	160.95	6,884.76	-11,235.55	7,343.45	307,771.83	1,777,693.53	39.3430321	-80.1746726	13,017.08	0.00	0.00	0.00
21,300.00	91.50	160.95	6,882.14	-11,330.04	7,376.08	307,677.34	1,777,726.16	39.3427733	-80.1745548	13,117.04	0.00	0.00	0.00
21,400.00	91.50	160.95	6,879.53	-11,424.53	7,408.71	307,582.85	1,777,758.79	39.3425146	-80.1744369	13,217.01	0.00	0.00	0.00
21,500.00	91.50	160.95	6,876.91	-11,519.02	7,441.34	307,488.36	1,777,791.42	39.3422558	-80.1743190	13,316.97	0.00	0.00	0.00
21,600.00	91.50	160.95	6,874.29	-11,613.51	7,473.97	307,393.87	1,777,824.04	39.3419971	-80.1742012	13,416.94	0.00	0.00	0.00
21,700.00	91.50	160.95	6,871.67	-11,708.00	7,506.60	307,299.38	1,777,856.67	39.3417383	-80.1740833	13,516.90	0.00	0.00	0.00
21,800.00	91.50	160.95	6,869.05	-11,802.49	7,539.22	307,204.88	1,777,889.30	39.3414796	-80.1739654	13,616.87	0.00	0.00	0.00
21,900.00	91.50	160.95	6,866.44	-11,896.98	7,571.85	307,110.39	1,777,921.93	39.3412208	-80.1738475	13,716.84	0.00	0.00	0.00
22,000.00	91.50	160.95	6,863.82	-11,991.48	7,604.48	307,015.90	1,777,954.56	39.3409621	-80.1737297	13,816.80	0.00	0.00	0.00
22,100.00	91.50	160.95	6,861.20	-12,085.97	7,637.11	306,921.41	1,777,987.18	39.3407034	-80.1736118	13,916.77	0.00	0.00	0.00
22,200.00	91.50	160.95	6,858.58	-12,180.46	7,669.74	306,826.92	1,778,019.81	39.3404446	-80.1734939	14,016.73	0.00	0.00	0.00



Company:	Diversified Production, LLC	Local Co-ordinate Reference:	Well Abbey 8MH
Project:	Harrison County, WV (NAD83 - GRID)	TVD Reference:	WELL @ 1024.00usft (28' RKB)
Site:	Abbey Pad	MD Reference:	WELL @ 1024.00usft (28' RKB)
Well:	Abbey 8MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #13	Database:	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Map Coordinates Northing (usft)	Easting (usft)	Geo Coordinates Latitude (°)	Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
22,300.00	91.50	160.95	6,855.97	-12,274.95	7,702.36	306,732.43	1,778,052.44	39.3401859	-80.1733761	14,116.70	0.00	0.00	0.00
22,400.00	91.50	160.95	6,853.35	-12,369.44	7,734.99	306,637.94	1,778,085.07	39.3399271	-80.1732582	14,216.66	0.00	0.00	0.00
22,500.00	91.50	160.95	6,850.73	-12,463.93	7,767.62	306,543.45	1,778,117.70	39.3396684	-80.1731403	14,316.63	0.00	0.00	0.00
22,600.00	91.50	160.95	6,848.11	-12,558.42	7,800.25	306,448.96	1,778,150.33	39.3394096	-80.1730225	14,416.60	0.00	0.00	0.00
22,700.00	91.50	160.95	6,845.50	-12,652.91	7,832.88	306,354.47	1,778,182.95	39.3391509	-80.1729046	14,516.56	0.00	0.00	0.00
22,800.00	91.50	160.95	6,842.88	-12,747.40	7,865.50	306,259.97	1,778,215.58	39.3388921	-80.1727868	14,616.53	0.00	0.00	0.00
22,900.00	91.50	160.95	6,840.26	-12,841.89	7,898.13	306,165.48	1,778,248.21	39.3386334	-80.1726689	14,716.49	0.00	0.00	0.00
23,000.00	91.50	160.95	6,837.64	-12,936.39	7,930.76	306,070.99	1,778,280.84	39.3383746	-80.1725510	14,816.46	0.00	0.00	0.00
23,100.00	91.50	160.95	6,835.02	-13,030.88	7,963.39	305,976.50	1,778,313.47	39.3381158	-80.1724332	14,916.42	0.00	0.00	0.00
23,200.00	91.50	160.95	6,832.41	-13,125.37	7,996.02	305,882.01	1,778,346.09	39.3378571	-80.1723153	15,016.39	0.00	0.00	0.00
23,300.00	91.50	160.95	6,829.79	-13,219.86	8,028.65	305,787.52	1,778,378.72	39.3375983	-80.1721975	15,116.36	0.00	0.00	0.00
23,400.00	91.50	160.95	6,827.17	-13,314.35	8,061.27	305,693.03	1,778,411.35	39.3373396	-80.1720796	15,216.32	0.00	0.00	0.00
23,500.00	91.50	160.95	6,824.55	-13,408.84	8,093.90	305,598.54	1,778,443.98	39.3370808	-80.1719618	15,316.29	0.00	0.00	0.00
23,600.00	91.50	160.95	6,821.94	-13,503.33	8,126.53	305,504.05	1,778,476.61	39.3368221	-80.1718439	15,416.25	0.00	0.00	0.00
23,700.00	91.50	160.95	6,819.32	-13,597.82	8,159.16	305,409.56	1,778,509.23	39.3365633	-80.1717261	15,516.22	0.00	0.00	0.00
23,800.00	91.50	160.95	6,816.70	-13,692.31	8,191.79	305,315.06	1,778,541.86	39.3363046	-80.1716082	15,616.18	0.00	0.00	0.00
23,900.00	91.50	160.95	6,814.08	-13,786.80	8,224.41	305,220.57	1,778,574.49	39.3360458	-80.1714903	15,716.15	0.00	0.00	0.00
24,000.00	91.50	160.95	6,811.47	-13,881.30	8,257.04	305,126.08	1,778,607.12	39.3357871	-80.1713725	15,816.12	0.00	0.00	0.00
24,100.00	91.50	160.95	6,808.85	-13,975.79	8,289.67	305,031.59	1,778,639.75	39.3355283	-80.1712546	15,916.08	0.00	0.00	0.00
24,200.00	91.50	160.95	6,806.23	-14,070.28	8,322.30	304,937.10	1,778,672.38	39.3352696	-80.1711368	16,016.05	0.00	0.00	0.00
24,300.00	91.50	160.95	6,803.61	-14,164.77	8,354.93	304,842.61	1,778,705.00	39.3350108	-80.1710190	16,116.01	0.00	0.00	0.00
24,400.00	91.50	160.95	6,800.99	-14,259.26	8,387.56	304,748.12	1,778,737.63	39.3347521	-80.1709011	16,215.98	0.00	0.00	0.00
24,500.00	91.50	160.95	6,798.38	-14,353.75	8,420.18	304,653.63	1,778,770.26	39.3344933	-80.1707833	16,315.94	0.00	0.00	0.00
24,600.00	91.50	160.95	6,795.76	-14,448.24	8,452.81	304,559.14	1,778,802.89	39.3342346	-80.1706654	16,415.91	0.00	0.00	0.00
24,700.00	91.50	160.95	6,793.14	-14,542.73	8,485.44	304,464.65	1,778,835.52	39.3339758	-80.1705476	16,515.88	0.00	0.00	0.00
24,800.00	91.50	160.95	6,790.52	-14,637.22	8,518.07	304,370.15	1,778,868.14	39.3337171	-80.1704297	16,615.84	0.00	0.00	0.00
24,900.00	91.50	160.95	6,787.91	-14,731.71	8,550.70	304,275.66	1,778,900.77	39.3334583	-80.1703119	16,715.81	0.00	0.00	0.00
25,000.00	91.50	160.95	6,785.29	-14,826.21	8,583.32	304,181.17	1,778,933.40	39.3331996	-80.1701940	16,815.77	0.00	0.00	0.00
25,100.00	91.50	160.95	6,782.67	-14,920.70	8,615.95	304,086.68	1,778,966.03	39.3329408	-80.1700762	16,915.74	0.00	0.00	0.00
25,200.00	91.50	160.95	6,780.05	-15,015.19	8,648.58	303,992.19	1,778,998.66	39.3326821	-80.1699584	17,015.70	0.00	0.00	0.00
25,300.00	91.50	160.95	6,777.44	-15,109.68	8,681.21	303,897.70	1,779,031.28	39.3324233	-80.1698405	17,115.67	0.00	0.00	0.00
25,400.00	91.50	160.95	6,774.82	-15,204.17	8,713.84	303,803.21	1,779,063.91	39.3321645	-80.1697227	17,215.64	0.00	0.00	0.00
25,500.00	91.50	160.95	6,772.20	-15,298.66	8,746.46	303,708.72	1,779,096.54	39.3319058	-80.1696048	17,315.60	0.00	0.00	0.00
25,600.00	91.50	160.95	6,769.58	-15,393.15	8,779.09	303,614.23	1,779,129.17	39.3316470	-80.1694870	17,415.57	0.00	0.00	0.00
25,700.00	91.50	160.95	6,766.96	-15,487.64	8,811.72	303,519.74	1,779,161.80	39.3313883	-80.1693692	17,515.53	0.00	0.00	0.00
25,800.00	91.50	160.95	6,764.35	-15,582.13	8,844.35	303,425.24	1,779,194.43	39.3311295	-80.1692513	17,615.50	0.00	0.00	0.00
25,900.00	91.50	160.95	6,761.73	-15,676.63	8,876.98	303,330.75	1,779,227.05	39.3308708	-80.1691335	17,715.47	0.00	0.00	0.00
26,000.00	91.50	160.95	6,759.11	-15,771.12	8,909.61	303,236.26	1,779,259.68	39.3306120	-80.1690157	17,815.43	0.00	0.00	0.00



Company:	Diversified Production, LLC	Local Co-ordinate Reference:	Well Abbey 8MH
Project:	Harrison County, WV (NAD83 - GRID)	TVD Reference:	WELL @ 1024.00usft (28' RKB)
Site:	Abbey Pad	MD Reference:	WELL @ 1024.00usft (28' RKB)
Well:	Abbey 8MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #13	Database:	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Map Coordinates Northing (usft)	Easting (usft)	Geo Coordinates Latitude (°)	Longitude (°)	Vertical Dogleg Section (usft)	Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
26,034.80	91.50	160.95	6,758.20	-15,804.00	8,920.96	303,203.38	1,779,271.04	39.3305220	-80.1689747	17,850.22	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL v12 - Abbey 8M - plan hits target center - Point	0.00	360.00	6,758.20	-15,804.00	8,920.96	303,203.37	1,779,271.04	39.3305220	-80.1689747
LP v8 - Abbey 8MH - plan hits target center - Point	0.00	360.00	7,210.00	445.27	3,258.18	319,452.65	1,773,608.25	39.3750161	-80.1894342

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
2750	2750	0	0	KOP; Begin 2.00° Build
3150	3149	20	20	Continue 2.00° Build/Turn
5080	4845	329	802	Hold 45.52° Tangent
7850	6786	911	2691	Begin 10.00° Build/Turn
8659	7202	564	3201	Continue 10.00° Build/Turn
8792	7210	445	3258	Hold 91.50° Lateral
9892	7181	-507	3808	Begin 1.50° Turn
10,784	7158	-1324	4160	Hold 163.38° Az
14,253	7067	-4647	5152	Begin 1.50° Turn
14,336	7065	-4726	5176	Hold 162.13° Az
19,072	6941	-9232	6629	Begin 1.50° Turn
19,444	6931	-9580	6760	Continue 1.50° Turn
19,737	6923	-9853	6866	Hold 160.95° Az
26,035	6758	-15,804	8921	PBHL - 26034.80' MD

Checked By: _____ Approved By: _____ Date: _____



Diversified
Production LLC

WELL SITE SAFETY PLAN

Well Name: Abbey South 8MH

Pad Name: Abbey

911 Address:

39 Cathrine Drive

Shinnston, WV 26431

County: Harrison

District: Clay - Outside

UTM (meters), NAD83, Zone 17

Northing: 4,358,554.976

Easting: 568,826.350

April 2025

Kenny Willett

3/31/25

04/18/2025

ABBEY SOUTH WELL 8MH		
ID	SURFACE OWNER	DIST-TM-PAR
1	LONG RIDGE WEST VIRGINIA, LLC	5-210-44.2
2	SANDRA LOU TAYLOR	P/O 3-6-16.1
3	DOREEN M. & LEONARD L. LARSON	3-6-13
4	CHARLES THOMAS & MILDRED C. LITTLE	3-6-12
5	TERRY D. & PATRICIA WYER	3-6-26.1
6	TERRY D. & PATRICIA WYER	3-6-26
7	BEVERLY SUE MARKS & SCOTT A. MARKS	3-6-26.2
8	DAVID & BARBARA PYBUS	3-6-37.2
9	ELTON O. JR & CONSTANCE C. FITZPATRICK	3-6-37.3
10	ROBERT C. & DIANA L. BOYLE	3-6-36.2
11	ROBERT C. & DIANA L. BOYLE	3-6-36.1
12	ROBERT C. & DIANA L. BOYLE	3-6-53
13	THOMAS I. MCDANIEL, JR & KATHY L. MCDANIEL	3-6-38
14	JOHN DALE MAULLER	3-6-51.1
15	TIMOTHY B. MCDANIEL & KATHLEEN M. WITHAM	3-6-51.2
16	TRAVIS W. MCDANIEL & TIFFANY MOSSGROVE	3-6-51
17	MIA RAE GRESAK & AUSTIN MORRIS CAMERON	3-6-49.1
18	ERIK & STEPHANIE A. HURST	3-6-50
19	MARK V. SCHUMACHER	3-6-60
20	MARK V. SCHUMACHER	3-13-26
21	MARK V. SCHUMACHER	3-13-27
22	JAMES MARK & BARBARA KAY FERGUSON	3-13-34.1
23	JOSEPH BLAINE FERGUSON	3-13-34
24	DEBORAH C. TENDA & TIMOTHY M. BOES	3-13-32.2
25	CARLEE WARNER	3-13-36.2
26	MIKE ROSS INC	P/O 3-13-37.1
27	SELBY R. & ROSEMARY B. WOODS	3-13-36.3

ABBEY SOUTH WELL 8MH		
ID	SURFACE OWNER	DIST-TM-PAR
28	DAWN L. HECK	3-13-37.2
29	KEITH J. & JANE L. HADDIX	3-13-37.5
30	BRETT A. SCHROCK	P/O 3-13-39
31	EVAN & WHITNEY HELMS KLIETHERMES	3-13-41
32	EVAN M. & WHITNEY M. KLIETHERMES	3-13-44
33	EVAN M. KLIETHERMES	3-13-42
34	DIEDRE FAE SNOW	3-13-43
35	RUSSELL HALL	3-14-18
36	HARMONY GROVE BAPTIST CHURCH TRS OF	3-14-19
37	CHARLES E. PRYOR	3-15-5
38	MARTHA JANE FINDLEY	P/O 3-15-8.1

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

THRASHER

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



Diversified
Production LLC

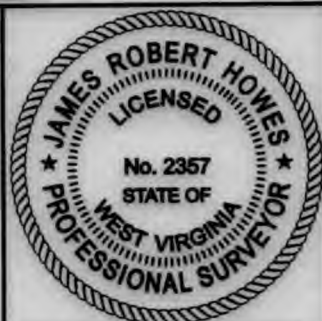
FILE #: T70-11275 ABBEY WELL PAD
DRAWING #: ABBEY SOUTH 8MH
SCALE: 1" = 2,000'
DATE: JANUARY 21, 2025

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 #: ABBEY SOUTH 8MH
API WELL #: 47 33 06048
STATE COUNTY PERMIT

WELL TYPE: OIL ☐ WASTE DISPOSAL ☐ PRODUCTION ☒ DEEP ☐ GAS ☒ LIQUID INJECTION ☐ STORAGE ☐ SHALLOW ☒
WATERSHED: WEST FORK ELEVATION: 996.00'±
COUNTY/DISTRICT: HARRISON / CLAY-OUTSIDE QUADRANGLE: ROSEMONT, WV 7.5'
SURFACE OWNER: LONG RIDGE WEST VIRGINIA LLC ACREAGE: 6.77± **04/18/2025**
OIL & GAS ROYALTY OWNER: WILLOW CREEK MHV, LLC ACREAGE: 6.77±
DRILL ☒ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☒ PLUG OFF OLD FORMATION ☐
CONVERT ☐ PLUG & ABANDON ☐ CLEAN OUT & REPLUG ☐ PERFORATE NEW FORMATION ☐
OTHER CHANGE ☐ (SPECIFY): _____
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: (LATERAL) TVD: 7,210'± TMD: 26,035'±

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

ABBEY SOUTH WELL 8MH

ID	LEASE NUMBER	LESSOR	LEASE ACREAGE
A	101263000	WILLOW CREEK MHV LLC	6.77
B	101282000, 101283000, 101272000, 101094000, 101069000, 101284000, 101271000, 101285000	ROGER LEE STACKHOUSE	4.39
C	101286000	LARRY B. WEAVER & LAURA L. WEAVER	4.00
D	101250000	CHARLES THOMAS LITTLE	19.45
E	101182000	TERRY D. WYER & PATRICIA WYER	5.98
F	101249000	TERRY D. WYER & PATRICIA WYER	26.42
G	101249000	BEVERLY SUE MARKS & SCOTT A. MARKS	4.91
H	101281000	AUGUSTA RESOURCES, LLC	47.52
I	101290000	ROBERT C. BOYLE & DIANA L. BOYLE	5.58
J	101336000, 101334000, 101274000, 101351000, 101346000, 101306000, 101308000, 101335000, 101348000, 101349000, 101350000, 101290000	IN TRUST FOR DARIS ELI BARKER BY CATHERINE L. BAKER, TRUSTEE	34.82
K	101300000	THOMAS J. MCDANIEL, JR. & KATHY L. MCDANIEL	14.59
L	101301000	J. DALE MAULLER	4.86
M	101302000	TIMOTHY B. MCDANIEL & KATHLEEN M. WITHAM	14.92
N	101307000	TRAVIS W. MCDANIEL & TIFFANY MOSSGROVE	14.92
O	101303000	THE ERNEST AND ROBERTA SCHUMACHER SECOND IRREVOCABLE TRUST, DATED JANUARY 29, 2019	1.98
P	100945000	ERIK HURST & STEPHANIE A. HURST	11.56
Q	BP070829	SAMUEL M. ROBINSON AND MADILINE ROBINSON, EACH IN HIS OWN RIGHT AND AS HUSBAND AND WIFE	46.00
R	BP059059	A.C. MORRIS, SINGLE; ALBERT W. POST AND MARY O. POST IN THEIR OWN RIGHT AND AS HUSBAND AND WIFE	46.00
S	BP066857	M.B. TOLLEY AND BLANCHE TOLLEY, HUSBAND AND WIFE	85.00
T	BP067020	NANCY COPLIN HUNSAKER, WIDOW	15.00
U	101304000, 101105000, 101103000	SENECA-UPSHUR PETROLEUM LLC	11.90
V	BP059113	RORY ELDER AND LENA ELDER, EACH IN THEIR OWN RIGHT AND AS HUSBAND AND WIFE	50.00
W	BP064885	RUFUS HOLDEN AND AGNES T. HOLDEN, HIS WIFE; A. GAY CALIFF, WIDOW; ELIZABETH BARTLETT, WIDOW	18.00
X	BP057189	RUFUS HOLDEN AND AGNES T. HOLDEN, HIS WIFE	43.00
Y	BP067174	LOUISE R. DAVIS, WIDOW; MINNIE REED, SINGLE; MIRIAM R. HARR & R. LEE HARR, HER HUSBAND; ETHEL REED DAVIS & GEORGE R. DAVIS, HER HUSBAND; J. ROBERT REED & AGNES VIRGINIA REED, HIS WIFE; CHARLES EARL REED & BERYL REED, HIS WIFE	51.00
Z	BP049762	CHAS. H. PAYNE AND JEAN M. PAYNE, HIS WIFE; F.C. PAYNE, SINGLE; MODENA TIGHE AND T.H. TIGHE, HER HUSBAND	100.25
AA	BP067021	ERNEST L. FLETCHER AND DOROTHY V. FLETCHER, HIS WIFE, BENJAMIN F. KIBBE AND MILDRED I. KIBBE, HIS WIFE; JAMES D. KIBBE AND REVA B. KIBBE, JASON H. KIBBE, SINGLE AND EDNA K. BRADLEY, SINGLE	12.00
BB	BP066889	DORSEY CROPP AND MARY CROPP, HIS WIFE, AND DORSEY L. BROWN AND MINNIE M. BROWN, HIS WIFE	16.00
CC	BP067189	HERMAN E. SMALLWOOD AND AGNES C. SMALLWOOD; FRANK A. SMALLWOOD; MARGARET C. CONNER AND CHARLES EDWARD CONNER; HARRY D. SMALLWOOD AND SYLVIA MAE SMALLWOOD; FRED L. SMALLWOOD AND PAULINE E. SMALLWOOD; RALPH M. SMALLWOOD AND ANNIE L. SMALLWOOD; AND W.H. SMALLWOOD AND HAZEL SMALLWOOD	30.00
DD	101269000	CHARLES E. FINDLEY AND CLARICE GAIL FINDLEY, HIS WIFE	63.75

THRASHER

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

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



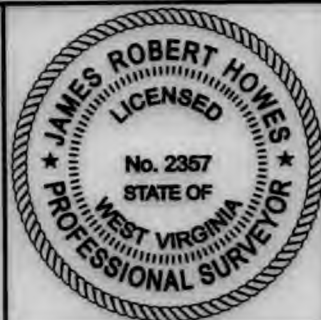
Diversified
Production LLC

FILE #: T70-11275 ABBEY WELL PAD
DRAWING #: ABBEY SOUTH 8MH
SCALE: 1" = 2,000'
DATE: JANUARY 21, 2025

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 #: ABBEY SOUTH 8MH
API WELL #: 47 33 06048
STATE COUNTY PERMIT

WELL TYPE: OIL ☐ WASTE DISPOSAL ☐ PRODUCTION ☒ DEEP ☐ GAS ☒ LIQUID INJECTION ☐ STORAGE ☐ SHALLOW ☒
WATERSHED: WEST FORK ELEVATION: 996.00'±
COUNTY/DISTRICT: HARRISON / CLAY-OUTSIDE QUADRANGLE: ROSEMONT, WV 7.5'
SURFACE OWNER: LONG RIDGE WEST VIRGINIA LLC ACREAGE: 6.77± 04/18/2025
OIL & GAS ROYALTY OWNER: WILLOW CREEK MHV, LLC ACREAGE: 6.77±
DRILL ☒ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☒ PLUG OFF OLD FORMATION ☐
CONVERT ☐ PLUG & ABANDON ☐ CLEAN OUT & REPLUG ☐ PERFORATE NEW FORMATION ☐
OTHER CHANGE ☐ (SPECIFY): _____
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: (LATERAL) TVD: 7,210'± TMD: 26,035'±

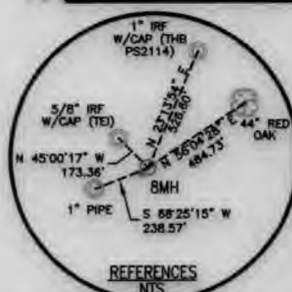
WELL OPERATOR: DIVERSIFIED PRODUCTION, LLC DESIGNATED AGENT: CHRIS VEASEY
ADDRESS: 101 MCQUISTON DRIVE ADDRESS: 400 SUMMER STREET
CITY: JACKSON CENTER STATE: PA ZIP CODE: 16133 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

BHL is located on topo map 1,025 feet south of Latitude: 39° 20' 00"
SHL is located on topo map 14,738 feet south of Latitude: 39° 22' 30"

ABBEY SOUTH 8MH

PAGE 3 OF 3

WELL PAD
ORIENTATION DETAIL
NTS



REFERENCES
NTS

LEGEND

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

GRID NORTH
WV STATE PLANE
NORTH ZONE NAD83 (2011)

WELL RESTRICTIONS

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

NOTES ON SURVEY

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

LINE	BEARING	DISTANCE
L1	S 68°25'15" W	238.57
L2	N 56°04'28" E	484.73
L3	N 23°13'54" E	526.60
L4	N 45°00'17" W	173.36

SURFACE HOLE LOCATION (SHL)	
UTM 17-NAD83 (M):	NAD83, WV NORTH (FT)
NORTHING: 4358554.976	NORTHING: 319007.378
EASTING: 568826.350	EASTING: 1770350.077
LANDING POINT LOCATION (LPL)	
UTM 17-NAD83 (M):	NAD83, WV NORTH (FT)
NORTHING: 4358707.166	NORTHING: 319452.649
EASTING: 569816.758	EASTING: 1773608.254
BOTTOM HOLE LOCATION (BHL)	
UTM 17-NAD83 (M):	NAD83, WV NORTH (FT)
NORTHING: 4353785.223	NORTHING: 303203.380
EASTING: 571624.446	EASTING: 1779271.035

0 2000' 4000'

THRASHER

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



Diversified
Production LLC

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

04/18/2025

Abbey South	TAX MAP	CURRENT LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
A	5-210-44.2	101263000	Willow Creek MHV LLC	LONG RIDGE WEST VIRGINIA, LLC	16%	1776	938
B	P/O 3-6-16.1	101282000	Roger Lee Stackhouse	LONG RIDGE WEST VIRGINIA, LLC	15%	75	79
		101283000	Linda Lou Smith	LONG RIDGE WEST VIRGINIA, LLC	15%	75	121
		101272000	Sandra Faye Stackhouse	LONG RIDGE WEST VIRGINIA, LLC	15%	74	550
		101094000	Sandra L. Taylor	LONG RIDGE WEST VIRGINIA, LLC	15%	72	663
		101069000	Stephanie A. Bowers	LONG RIDGE WEST VIRGINIA, LLC	15%	72	500
		101284000	Larry Summers	LONG RIDGE WEST VIRGINIA, LLC	15%	74	313
		101271000	Randy Summers	LONG RIDGE WEST VIRGINIA, LLC	15%	74	542
		101285000	Dalton R. Summers	LONG RIDGE WEST VIRGINIA, LLC	15%	Co-tenancy	Co-tenancy
C	3-6-13	101286000	Larry B. Weaver and Laura L. Weaver	LONG RIDGE WEST VIRGINIA, LLC	15%	75	110
D	3-6-12	101250000	Charles Thomas Little	LONG RIDGE WEST VIRGINIA, LLC	16%	74	297
E	3-6-26.1	101182000	Terry D. Wyer and Patricia Wyer	LONG RIDGE WEST VIRGINIA, LLC	16%	73	478
F	3-6-26	101182000	Terry D. Wyer and Patricia Wyer	LONG RIDGE WEST VIRGINIA, LLC	16%	73	478
G	3-6-26.2	101249000	Beverly Sue Marks and Scott A. Marks	LONG RIDGE WEST VIRGINIA, LLC	16%	74	290
H	3-6-37.2 3-6-37.3	101281000	Augusta Resources, LLC	LONG RIDGE WEST VIRGINIA, LLC	16%	75	65
I	3-6-36.2 3-6-36.1	101290000	Robert C. Boyle and Diana L. Boyle	LONG RIDGE WEST VIRGINIA, LLC	15%	74	323
J	3-6-53	101336000	In Trust for Daris Eli Barker by Catherine L. Baker, Trustee	LONG RIDGE WEST VIRGINIA, LLC	15%	75	303
		101334000	Linda Gae Prather	LONG RIDGE WEST VIRGINIA, LLC	15%	75	75
		101274000	Brenda Kae Zahn	LONG RIDGE WEST VIRGINIA, LLC	15%	75	538
		101351000	Sharon Lee Johnston	LONG RIDGE WEST VIRGINIA, LLC	15%	75	486
		101346000	Carol Jo Ann (Riffie) Pipo	LONG RIDGE WEST VIRGINIA, LLC	15%	75	298
		101306000	Deborah Lynn (Riffie) Meadows	LONG RIDGE WEST VIRGINIA, LLC	15%	75	113
		101308000	Brian P. Riffie	LONG RIDGE WEST VIRGINIA, LLC	15%	75	123
		101335000	Natalie Jean Riffie aka Natalie Jean (Riffie) Cook	LONG RIDGE WEST VIRGINIA, LLC	15%	75	305
		101348000	Juliane Brumbaugh AKA Juliane Murphy Brumbaugh	LONG RIDGE WEST VIRGINIA, LLC	15%	75	490
		101349000	Jacquelyn Riffie aka Jacquelyn A. Riffie	LONG RIDGE WEST VIRGINIA, LLC	15%	75	488
		101350000	Patricia J. Bruce	LONG RIDGE WEST VIRGINIA, LLC	18%	Co-tenancy	Co-tenancy
		101350000	Belinda Riffie	LONG RIDGE WEST VIRGINIA, LLC	18%	Co-tenancy	Co-tenancy
		101350000	Andrea L. Maibach	LONG RIDGE WEST VIRGINIA, LLC	18%	Co-tenancy	Co-tenancy
		101350000	Stephanie J. Black	LONG RIDGE WEST VIRGINIA, LLC	18%	Co-tenancy	Co-tenancy
		101350000	Mitchel E. Riffie	LONG RIDGE WEST VIRGINIA, LLC	18%	Co-tenancy	Co-tenancy
		101350000	Carol L. Strawderman	LONG RIDGE WEST VIRGINIA, LLC	18%	Co-tenancy	Co-tenancy
		101290000	Robert C. Boyle and Diana L. Boyle	LONG RIDGE WEST VIRGINIA, LLC	15%	74	323
K	3-6-38	10130000	THOMAS I. MCDANIEL, JR. AND KATHY L. MCDANIEL	LONG RIDGE WEST VIRGINIA, LLC	15%	75	128
			THOMAS I. MCDANIEL, SR., L/E	LONG RIDGE WEST VIRGINIA, LLC	15%	75	128
L	3-6-51.1	101301000	J. DALE MAULLER	LONG RIDGE WEST VIRGINIA, LLC	15%	75	108
M	3-6-51.2	101302000	TIMOTHY B. MCDANIEL AND KATHLEEN W. WITHAM	LONG RIDGE WEST VIRGINIA, LLC	15%	75	103
N	3-6-51	101307000	TRAVIS W. MCDANIEL AND TIFFANY MOSSGROVE	LONG RIDGE WEST VIRGINIA, LLC	15%	75	125

Abbey South	TAX MAP	CURRENT LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
P	3-6-50	100945000	Erik Hurst and Stephanie A. Hurst	LONG RIDGE WEST VIRGINIA, LLC	16%	71	578
Q	3-6-60	100810000	SAMUEL M. ROBINSON AND MADILINE ROBINSON, EACH IN HIS OWN RIGHT AND AS HUSBAND AND WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	25	287
			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	138	270
			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	5	555
			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
			DOMINION TRANSMISSION, INC.	TRIANA ENERGY, LLC	PARTIAL ASSIGNMENT	33	377
			TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	39	69
			M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	39	148
R	3-13-26	100734000	A.C. MORRIS, SINGLE;ALBERT W. POST AND MARY O. POST IN THEIR OWN RIGHT AND AS HUSBAND AND WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	22	19
			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	138	270
			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	5	555
			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
			DOMINION TRANSMISSION, INC.	TRIANA ENERGY, LLC	PARTIAL ASSIGNMENT	33	377
			TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	39	69
			M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	39	148
S	3-13-27	100753000	M.B. TOLLEY AND BLANCHE TOLLEY, HUSBAND AND WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	23	258
			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	138	270
			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	5	555
			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
			DOMINION TRANSMISSION, INC.	TRIANA ENERGY, LLC	PARTIAL ASSIGNMENT	33	377
			TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	39	69
			M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	39	148
T	3-13-34.1 3-13-34	100782000	NANCY COPLIN HUNSAKER, WIDOW	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	23	356
			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	138	270
			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	5	555
			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
			DOMINION TRANSMISSION, INC.	TRIANA ENERGY, LLC	PARTIAL ASSIGNMENT	33	377
			TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	39	69
			M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	39	148
U	3-13-32.2	101304000	Seneca-Upshur Petroleum LLC	LONG RIDGE WEST VIRGINIA, LLC	15%	75	85
		101105000	Collingwood Appalachian Minerals II, LLC	LONG RIDGE WEST VIRGINIA, LLC	15%	73	128
		101103000	Collingwood Appalachian Minerals III, LLC	LONG RIDGE WEST VIRGINIA, LLC	15%	73	126

Abbey South	TAX MAP	CURRENT LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
V	3-13-36.2 P/O 3-13-37.1 3-13-36.3	100735000	RORY ELDER AND LENA ELDER, EACH IN THEIR OWN RIGHT AND AS HUSBAND AND WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	22	71
			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	138	270
			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	5	555
			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
			DOMINION TRANSMISSION, INC.	TRIANA ENERGY, LLC	PARTIAL ASSIGNMENT	33	377
			TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	39	69
			M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	39	148
W	3-13-37.2 3-13-37.5	100746000	RUFUS HOLDEN AND AGNES T. HOLDEN, HIS WIFE; A. GAY CALIFF, WIDOW; ELIZABETH BARTLETT, WIDOW	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	22	391
			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	138	270
			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	5	555
			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
			DOMINION TRANSMISSION, INC.	TRIANA ENERGY, LLC	PARTIAL ASSIGNMENT	33	377
			TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	39	69
			M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	39	148
X	P/O 3-13-39	100726000	RUFUS HOLDEN AND AGNES T. HOLDEN, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	21	195
			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	138	270
			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	5	555
			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
			DOMINION TRANSMISSION, INC.	TRIANA ENERGY, LLC	PARTIAL ASSIGNMENT	33	377
			TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	39	69
			M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	39	148
Y	3-13-41 3-13-44	100791000	LOUISE R. DAVIS, WIDOW; MINNIE REED, SINGLE; MIRIAM R. HARR & R. LEE HARR, HER HUSBAND; ETHEL REED DAVIS & GEORGE R. DAVIS, HER HUSBAND; J. ROBERT REED & AGNES VIRGINIA REED, HIS WIFE; CHARLES EARL REED & BERYL REED, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	23	389
			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	138	270
			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	5	555
			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
			DOMINION TRANSMISSION, INC.	TRIANA ENERGY, LLC	PARTIAL ASSIGNMENT	33	377
			TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	39	69
			M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	39	148

Abbey South	TAX MAP	CURRENT LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
Z	3-13-42	100700000	CHAS. H. PAYNE AND JEAN M. PAYNE, HIS WIFE; F.C. PAYNE, SINGLE;	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	19	163
			MODENA TIGHE AND T.H. TIGHE, HER HUSBAND	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	138	270
			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	5	555
			CONSOLIDATED GAS SUPPLY CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
			CONSOLIDATED GAS TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
			CNG TRANSMISSION CORPORATION	TRIANA ENERGY, LLC	PARTIAL ASSIGNMENT	33	377
			DOMINION TRANSMISSION, INC.	M4 ENERGY, LLC	ASSIGNMENT	39	69
			TRIANA ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	39	148
AA	3-13-43 3-14-18	100783000	ERNEST L. FLETCHER AND DOROTHY V. FLETCHER, HIS WIFE, BENJAMIN F. KIBBE AND MILDRED I. KIBBE, HIS WIFE; JAMES D. KIBBE AND REVA B. KIBBE, JASON H. KIBBE, SINGLE AND EDNA K. BRADLEY, SINGLE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	23	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	PARTIAL ASSIGNMENT	33	377
			TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	39	69
			M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	39	148
BB	3-14-19	100758000	DORSEY CROPP AND MARY CROPP, HIS WIFE, AND DORSEY L. BROWN AND MINNIE M. BROWN, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	23	270
			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	138	270
			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	5	555
			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
			DOMINION TRANSMISSION, INC.	TRIANA ENERGY, LLC	PARTIAL ASSIGNMENT	33	377
			TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	39	69
			M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	39	148
CC	3-15-5	100792000	HERMAN E. SMALLWOOD AND AGNES C. SMALLWOOD; FRANK A. SMALLWOOD; MARGARET C. CONNER AND CHARLES EDWARD CONNER; HARRY D. SMALLWOOD AND SYLVIA MAE SMALLWOOD; FRED L. SMALLWOOD AND PAULINE E. SMALLWOOD; RALPH M. SMALLWOOD AND ANNIE L. SMALLWOOD; AND W.H. SMALLWOOD AND HAZEL SMALLWOOD	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	23	407
			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	138	270
			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	5	555
			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
			DOMINION TRANSMISSION, INC.	TRIANA ENERGY, LLC	PARTIAL ASSIGNMENT	33	377
			TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	39	69
			M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	39	148

Abbey South	TAX MAP	CURRENT LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
			Eva Jo Crites	LONG RIDGE WEST VIRGINIA, LLC	14%	72	642
DD	P/O 3-15-8.1	101269000	CHARLES E. FINDLEY AND CLARICE GAIL FINDLEY, HIS WIFE	JAMES F. SCOTT	NOT LESS THAN 1/8	37	379
			JAMES F. SCOTT	NANCY CATHERINE GIBSON	ASSIGNMENT - WI	9	144
			JAMES F. SCOTT	SCOTT OIL & GAS COMPANY	NAME CHANGE/ASSIGNMENT	Unrecorded	Unrecorded
			SCOTT OIL & GAS COMPANY	SCOTT OIL COMPANY	NAME CHANGE/ASSIGNMENT	Unrecorded	Unrecorded
			SCOTT OIL COMPANY	EMAX OIL COMPANY	NAME CHANGE	53	408
			EMAX OIL COMPANY	CABOT OIL AND GAS CORPORATION	ASSIGNMENT	17	247
			CABOT OIL AND GAS CORPORATION	BOWIE, INC.	ASSIGNMENT	22	154
			SUZANNE MARIE GIBSON SLOAN	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT	39	462
			GINA CAROLYN GIBSON	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT	39	470
			BOWIE INC.	BOWIE FAMILY LLC			
			BOWIE FAMILY LLC	SYCAMORE INVESTMENTS, LLC	ASSIGNMENT	39	360
			SYCAMORE INVESTMENTS, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT	39	371

MEMORANDUM OF OIL AND GAS LEASE

This Memorandum of Oil and Gas Lease is made this 31st day of May, 2024, with an effective date of MAY 31 2024, by and between Willow Creek MHV LLC, with an address of 485 Long Run Rd Fleming WV 26547, hereinafter referred to as "Lessor", and Long Ridge West Virginia, LLC, a Delaware limited liability company, with an address of 501 Corporate Drive, Suite 210, Canonsburg, PA 15317, hereinafter called "Lessee."

WITNESSETH:

1. For and in consideration of One Dollar (\$1.00) and other good and valuable consideration paid and to be paid by Lessee to Lessor and in further consideration of the rents reserved and the covenants and conditions more particularly set forth in that certain lease between Lessor and Lessee dated 5-31-2024 (hereinafter referred to as the "Lease") does hereby grant, demise, lease and let exclusively unto Lessee the following described premises:
2. Said land is situate in **Clay** District, **Harrison** County, West Virginia, Tax Map/Parcel 17-05 210-0044-0002 containing approx. 6.77 acres and Map/Parcel 17-05 210-0044-0010 containing approx. 1.19 acres +/- being all the property owned by Lessor or to which the Lessor may have any rights in said District or adjoining Districts, and being the same property described in Official Deed Book 1693 Page 1330.
3. The Lease was executed on 5-31-2024, has a primary term of five (5) year(s) and commencing on 5-31-2024, and so much longer thereafter as oil or gas or their constituents are produced or capable of being produced on the Premises in paying quantities, in the judgement of Lessee, or as the Premises shall be operated by Lessee in the search of oil or gas and as further set forth in the Lease, unless earlier terminated in accordance with the terms and provisions of the Lease.
4. The rental, covenants, provisions and conditions of this Memorandum shall be the same as the rental, covenants, provisions and conditions set forth in the Lease to which rental, covenants, provisions and conditions reference is hereby made and the same are hereby incorporated by reference as though fully written herein.
5. In the event the lease is in the future amended or supplemented by written instrument executed by the parties in interest thereto or shall be assigned or terminated in any manner permitted under the terms thereof, then without any further act or instrument whatsoever, this Memorandum shall likewise and to the same effect be amended, assigned or terminated, as the case may be.
6. This Memorandum is executed in simplified short form for the convenience of the parties and for the purpose of recording the same or now or may hereafter be in force and effect.
7. This lease may be executed either as one instrument or in several partially executed counterparts and the original and all counterparts shall be construed together and shall constitute one lease. Should less than all of the named Lessors execute this lease, this lease shall be binding on those who are signatories.

SIGNATURE PAGES TO FOLLOW

MEMORANDUM OF OIL AND GAS LEASE

This Memorandum of Oil and Gas Lease is made this 6 day of September, 2024, with an effective date of 9-6-24, by and between **Roger Lee Stackhouse**, with an address of 1422 Pineview Ave., Fairmont, WV 26554, hereinafter referred to as "Lessor", and **Long Ridge West Virginia, LLC**, with an address of 501 Corporate Drive, Suite 210, Canonsburg, PA 15317, hereinafter called "Lessee."

WITNESSETH:

1. For and in consideration of One Dollar (\$1.00) and other good and valuable consideration paid and to be paid by Lessee to Lessor and in further consideration of the rents reserved and the covenants and conditions more particularly set forth in that certain lease between Lessor and Lessee dated 9-6-24 (hereinafter referred to as the "Lease") does hereby grant, demise, lease and let exclusively unto Lessee the following described premises:

2. Said land is situate in **Booths Creek** District, **Taylor County**, West Virginia, Tax Parcel Number(s) **P/O 3-6-16.1**, being all the property owned by Lessor or to which the Lessor may have any rights in said District or adjoining Districts, containing 4.39375 acres, more or less, and begin the property described in Official Records Book 46 Page 467.

3. The Lease was executed on 9-6-24, has a primary term of five (5) year(s) and commencing on 9-6-24, and so much longer thereafter as oil or gas or their constituents are produced or capable of being produced on the Premises in paying quantities, in the judgement of Lessee, or as the Premises shall be operated by Lessee in the search of oil or gas and as further set forth in the Lease, unless earlier terminated in accordance with the terms and provisions of the Lease.

4. The rental, covenants, provisions and conditions of this Memorandum shall be the same as the rental, covenants, provisions and conditions set forth in the Lease to which rental, covenants, provisions and conditions reference is hereby made and the same are hereby incorporated by reference as though fully written herein.

5. In the event the lease is in the future amended or supplemented by written instrument executed by the parties in interest thereto or shall be assigned or terminated in any manner permitted under the terms thereof, then without any further act or instrument whatsoever, this Memorandum shall likewise and to the same effect be amended, assigned or terminated, as the case may be.

6. This Memorandum is executed in simplified short form for the convenience of the parties and for the purpose of recording the same or now or may hereafter be in force and effect.

7. This lease may be executed either as one instrument or in several partially executed counterparts and the original and all counterparts shall be construed together and shall constitute one lease. Should less than all of the named Lessors execute this lease, this lease shall be binding on those who are signatories.

SIGNATURE PAGES TO FOLLOW

MEMORANDUM OF OIL AND GAS LEASE

This Memorandum of Oil and Gas Lease is made this 30 day of September, 2024, with an effective date of 9-30-24, by and between **Linda Lou Smith**, with an address of 6573 Benedum Dr., Shinnston, WV 26431, hereinafter referred to as "**Lessor**", and **Long Ridge West Virginia, LLC**, with an address of 501 Corporate Drive, Suite 210, Canonsburg, PA 15317, hereinafter called "**Lessee**."

WITNESSETH:

1. For and in consideration of One Dollar (\$1.00) and other good and valuable consideration paid and to be paid by Lessee to Lessor and in further consideration of the rents reserved and the covenants and conditions more particularly set forth in that certain lease between Lessor and Lessee dated 9-30-24 (hereinafter referred to as the "**Lease**") does hereby grant, demise, lease and let exclusively unto Lessee the following described premises:
2. Said land is situate in **Booths Creek District, Taylor County, West Virginia**, Tax Parcel Number(s) **P/O 3-6-16.1**, being all the property owned by Lessor or to which the Lessor may have any rights in said District or adjoining Districts, containing 4.39375 acres, more or less, and begin the property described in Official Records Book 46 Page 467.
3. The Lease was executed on 9-30-24, has a primary term of five (5) year(s) and commencing on 9-30-24, and so much longer thereafter as oil or gas or their constituents are produced or capable of being produced on the Premises in paying quantities, in the judgement of Lessee, or as the Premises shall be operated by Lessee in the search of oil or gas and as further set forth in the Lease, unless earlier terminated in accordance with the terms and provisions of the Lease.
4. The rental, covenants, provisions and conditions of this Memorandum shall be the same as the rental, covenants, provisions and conditions set forth in the Lease to which rental, covenants, provisions and conditions reference is hereby made and the same are hereby incorporated by reference as though fully written herein.
5. In the event the lease is in the future amended or supplemented by written instrument executed by the parties in interest thereto or shall be assigned or terminated in any manner permitted under the terms thereof, then without any further act or instrument whatsoever, this Memorandum shall likewise and to the same effect be amended, assigned or terminated, as the case may be.
6. This Memorandum is executed in simplified short form for the convenience of the parties and for the purpose of recording the same or now or may hereafter be in force and effect.
7. This lease may be executed either as one instrument or in several partially executed counterparts and the original and all counterparts shall be construed together and shall constitute one lease. Should less than all of the named Lessors execute this lease, this lease shall be binding on those who are signatories.

SIGNATURE PAGES TO FOLLOW

MEMORANDUM OF OIL AND GAS LEASE

This Memorandum of Oil and Gas Lease is made this 1 day of July, 2024, with an effective date of 7/1/24, by and between **Sandra Faye Stackhouse**, with an address of P.O. Box 1351., Bridgeport, WV 26330 hereinafter referred to as "**Lessor**", and **Long Ridge West Virginia, LLC**, with an address of 501 Corporate Drive, Suite 210, Canonsburg, PA 15317, hereinafter called "**Lessee**."

WITNESSETH:

1. For and in consideration of One Dollar (\$1.00) and other good and valuable consideration paid and to be paid by Lessee to Lessor and in further consideration of the rents reserved and the covenants and conditions more particularly set forth in that certain lease between Lessor and Lessee dated July 1, 24 (hereinafter referred to as the "**Lease**") does hereby grant, demise, lease and let exclusively unto Lessee the following described premises:

2. Said land is situate in **Booths Creek** District, **Taylor** County, West Virginia, Tax Parcel Number(s) **P/O 3-6-16.1**, being all the property owned by Lessor or to which the Lessor may have any rights in said District or adjoining Districts, containing 4.39375 acres, more or less, and begin the property described in Official Records Book 46 Page 467.

3. The Lease was executed on 7-1-24, has a primary term of five (5) year(s) and commencing on 7/1/24, and so much longer thereafter as oil or gas or their constituents are produced or capable of being produced on the Premises in paying quantities, in the judgement of Lessee, or as the Premises shall be operated by Lessee in the search of oil or gas and as further set forth in the Lease, unless earlier terminated in accordance with the terms and provisions of the Lease.

4. The rental, covenants, provisions and conditions of this Memorandum shall be the same as the rental, covenants, provisions and conditions set forth in the Lease to which rental, covenants, provisions and conditions reference is hereby made and the same are hereby incorporated by reference as though fully written herein.

5. In the event the lease is in the future amended or supplemented by written instrument executed by the parties in interest thereto or shall be assigned or terminated in any manner permitted under the terms thereof, then without any further act or instrument whatsoever, this Memorandum shall likewise and to the same effect be amended, assigned or terminated, as the case may be.

6. This Memorandum is executed in simplified short form for the convenience of the parties and for the purpose of recording the same or now or may hereafter be in force and effect.

7. This lease may be executed either as one instrument or in several partially executed counterparts and the original and all counterparts shall be construed together and shall constitute one lease. Should less than all of the named Lessors execute this lease, this lease shall be binding on those who are signatories.

SIGNATURE PAGES TO FOLLOW

MEMORANDUM OF OIL AND GAS LEASE

This Memorandum of Oil and Gas Lease is made this 22nd day of August, 2023, with an effective date of 8/22/23, by and between Sandra D Taylor, with an address of 146 Hawk Haven Ln., Bridgeport, WV 26330, hereinafter referred to as "Lessor", and Long Ridge West Virginia, LLC, with an address of 501 Corporate Drive, Suite 210, Canonsburg, PA 15317, hereinafter called "Lessee."

WITNESSETH:

1. For and in consideration of One Dollar (\$1.00) and other good and valuable consideration paid and to be paid by Lessee to Lessor and in further consideration of the rents reserved and the covenants and conditions more particularly set forth in that certain lease between Lessor and Lessee dated 8/22/23 (hereinafter referred to as the "Lease") does hereby grant, demise, lease and let exclusively unto Lessee the following described premises:

2. Said land is situate in **Booths Creek** District, **Taylor** County, West Virginia, Tax Parcel Number(s) **P/O 3-6-16.1**, being all the property owned by Lessor or to which the Lessor may have any rights in said District or adjoining Districts, containing 4.39375 acres, more or less, and begin the property described in Official Records Book 46 Page 467.

3. The Lease was executed on 8/22/23, has a primary term of five (5) year(s) and commencing on 8/22/23, and so much longer thereafter as oil or gas or their constituents are produced or capable of being produced on the Premises in paying quantities, in the judgement of Lessee, or as the Premises shall be operated by Lessee in the search of oil or gas and as further set forth in the Lease, unless earlier terminated in accordance with the terms and provisions of the Lease.

4. The rental, covenants, provisions and conditions of this Memorandum shall be the same as the rental, covenants, provisions and conditions set forth in the Lease to which rental, covenants, provisions and conditions reference is hereby made and the same are hereby incorporated by reference as though fully written herein.

5. In the event the lease is in the future amended or supplemented by written instrument executed by the parties in interest thereto or shall be assigned or terminated in any manner permitted under the terms thereof, then without any further act or instrument whatsoever, this Memorandum shall likewise and to the same effect be amended, assigned or terminated, as the case may be.

6. This Memorandum is executed in simplified short form for the convenience of the parties and for the purpose of recording the same or now or may hereafter be in force and effect.

7. This lease may be executed either as one instrument or in several partially executed counterparts and the original and all counterparts shall be construed together and shall constitute one lease. Should less than all of the named Lessors execute this lease, this lease shall be binding on those who are signatories.

SIGNATURE PAGES TO FOLLOW

MEMORANDUM OF OIL AND GAS LEASE

This Memorandum of Oil and Gas Lease is made this 28th day of September, 2023, with an effective date of 8/28/2023, by and between Stephanie A. Bowers, with an address of 605 Milford St., Clarksburg, WV 26301, hereinafter referred to as "Lessor", and Long Ridge West Virginia, LLC, with an address of 501 Corporate Drive, Suite 210, Canonsburg, PA 15317, hereinafter called "Lessee."

WITNESSETH:

1. For and in consideration of One Dollar (\$1.00) and other good and valuable consideration paid and to be paid by Lessee to Lessor and in further consideration of the rents reserved and the covenants and conditions more particularly set forth in that certain lease between Lessor and Lessee dated 8/28/23 (hereinafter referred to as the "Lease") does hereby grant, demise, lease and let exclusively unto Lessee the following described premises:
2. Said land is situate in **Booths Creek** District, **Taylor** County, West Virginia, Tax Parcel Number(s) **P/O 3-6-16.1**, being all the property owned by Lessor or to which the Lessor may have any rights in said District or adjoining Districts, containing 4.39375 acres, more or less, and begin the property described in Official Records Book 46 Page 467.
3. The Lease was executed on 8/28/23, has a primary term of five (5) year(s) and commencing on 8/28/23, and so much longer thereafter as oil or gas or their constituents are produced or capable of being produced on the Premises in paying quantities, in the judgement of Lessee, or as the Premises shall be operated by Lessee in the search of oil or gas and as further set forth in the Lease, unless earlier terminated in accordance with the terms and provisions of the Lease.
4. The rental, covenants, provisions and conditions of this Memorandum shall be the same as the rental, covenants, provisions and conditions set forth in the Lease to which rental, covenants, provisions and conditions reference is hereby made and the same are hereby incorporated by reference as though fully written herein.
5. In the event the lease is in the future amended or supplemented by written instrument executed by the parties in interest thereto or shall be assigned or terminated in any manner permitted under the terms thereof, then without any further act or instrument whatsoever, this Memorandum shall likewise and to the same effect be amended, assigned or terminated, as the case may be.
6. This Memorandum is executed in simplified short form for the convenience of the parties and for the purpose of recording the same or now or may hereafter be in force and effect.
7. This lease may be executed either as one instrument or in several partially executed counterparts and the original and all counterparts shall be construed together and shall constitute one lease. Should less than all of the named Lessors execute this lease, this lease shall be binding on those who are signatories.

SIGNATURE PAGES TO FOLLOW

MEMORANDUM OF OIL AND GAS LEASE

This Memorandum of Oil and Gas Lease is made this 24th day of May, 2024, with an effective date of 5/24/24, by and between **Larry Summers**, with an address of 4275 NE 127th Place, Anthony, FL 32617, hereinafter referred to as "Lessor", and **Long Ridge West Virginia, LLC**, with an address of 501 Corporate Drive, Suite 210, Canonsburg, PA 15317, hereinafter called "Lessee."

WITNESSETH:

1. For and in consideration of One Dollar (\$1.00) and other good and valuable consideration paid and to be paid by Lessee to Lessor and in further consideration of the rents reserved and the covenants and conditions more particularly set forth in that certain lease between Lessor and Lessee dated 5/24/24 (hereinafter referred to as the "Lease") does hereby grant, demise, lease and let exclusively unto Lessee the following described premises:

2. Said land is situate in **Booths Creek** District, **Taylor** County, West Virginia, Tax Parcel Number(s) **P/O 3-6-16.1**, being all the property owned by Lessor or to which the Lessor may have any rights in said District or adjoining Districts, containing 4.39375 acres, more or less, and begin the property described in Official Records Book 46 Page 467.

3. The Lease was executed on 5/24/24, has a primary term of five (5) year(s) and commencing on 5/24/24, and so much longer thereafter as oil or gas or their constituents are produced or capable of being produced on the Premises in paying quantities, in the judgement of Lessee, or as the Premises shall be operated by Lessee in the search of oil or gas and as further set forth in the Lease, unless earlier terminated in accordance with the terms and provisions of the Lease.

4. The rental, covenants, provisions and conditions of this Memorandum shall be the same as the rental, covenants, provisions and conditions set forth in the Lease to which rental, covenants, provisions and conditions reference is hereby made and the same are hereby incorporated by reference as though fully written herein.

5. In the event the lease is in the future amended or supplemented by written instrument executed by the parties in interest thereto or shall be assigned or terminated in any manner permitted under the terms thereof, then without any further act or instrument whatsoever, this Memorandum shall likewise and to the same effect be amended, assigned or terminated, as the case may be.

6. This Memorandum is executed in simplified short form for the convenience of the parties and for the purpose of recording the same or now or may hereafter be in force and effect.

7. This lease may be executed either as one instrument or in several partially executed counterparts and the original and all counterparts shall be construed together and shall constitute one lease. Should less than all of the named Lessors execute this lease, this lease shall be binding on those who are signatories.

SIGNATURE PAGES TO FOLLOW

MEMORANDUM OF OIL AND GAS LEASE

This Memorandum of Oil and Gas Lease is made this 28 day of June, 2024, with an effective date of 6/3/24, by and between **Randy Summers**, with an address of 146 Hawkhaven Ln., Bridgeport, WV 26330, hereinafter referred to as "Lessor", and **Long Ridge West Virginia, LLC**, with an address of 501 Corporate Drive, Suite 210, Canonsburg, PA 15317, hereinafter called "Lessee."

WITNESSETH:

1. For and in consideration of One Dollar (\$1.00) and other good and valuable consideration paid and to be paid by Lessee to Lessor and in further consideration of the rents reserved and the covenants and conditions more particularly set forth in that certain lease between Lessor and Lessee dated 6/3/24 (hereinafter referred to as the "Lease") does hereby grant, demise, lease and let exclusively unto Lessee the following described premises:

2. Said land is situate in **Booths Creek** District, **Taylor** County, West Virginia, Tax Parcel Number(s) **P/O 3-6-16.1**, being all the property owned by Lessor or to which the Lessor may have any rights in said District or adjoining Districts, containing 4.39375 acres, more or less, and begin the property described in Official Records Book 46 Page 467.

3. The Lease was executed on 6/3/24, has a primary term of five (5) year(s) and commencing on 6/3/24, and so much longer thereafter as oil or gas or their constituents are produced or capable of being produced on the Premises in paying quantities, in the judgement of Lessee, or as the Premises shall be operated by Lessee in the search of oil or gas and as further set forth in the Lease, unless earlier terminated in accordance with the terms and provisions of the Lease.

4. The rental, covenants, provisions and conditions of this Memorandum shall be the same as the rental, covenants, provisions and conditions set forth in the Lease to which rental, covenants, provisions and conditions reference is hereby made and the same are hereby incorporated by reference as though fully written herein.

5. In the event the lease is in the future amended or supplemented by written instrument executed by the parties in interest thereto or shall be assigned or terminated in any manner permitted under the terms thereof, then without any further act or instrument whatsoever, this Memorandum shall likewise and to the same effect be amended, assigned or terminated, as the case may be.

6. This Memorandum is executed in simplified short form for the convenience of the parties and for the purpose of recording the same or now or may hereafter be in force and effect.

7. This lease may be executed either as one instrument or in several partially executed counterparts and the original and all counterparts shall be construed together and shall constitute one lease. Should less than all of the named Lessors execute this lease, this lease shall be binding on those who are signatories.

SIGNATURE PAGES TO FOLLOW

MEMORANDUM OF OIL AND GAS LEASE

This Memorandum of Oil and Gas Lease is made this 1 day of October, 2024, with an effective date of 10/01/2024, by and between **Larry B. Weaver and Laura L. Weaver, JTWROS**, with an address of 11 Fairfield Dr., Bridgeport, WV 26330, hereinafter referred to as "**Lessor**", and **Long Ridge West Virginia, LLC**, with an address of 501 Corporate Drive, Suite 210, Canonsburg, PA 15317, hereinafter called "**Lessee**."

WITNESSETH:

1. For and in consideration of One Dollar (\$1.00) and other good and valuable consideration paid and to be paid by Lessee to Lessor and in further consideration of the rents reserved and the covenants and conditions more particularly set forth in that certain lease between Lessor and Lessee dated 10/01/2024 (hereinafter referred to as the "**Lease**") does hereby grant, demise, lease and let exclusively unto Lessee the following described premises:

2. Said land is situate in **Booths Creek District, Taylor County, West Virginia**, Tax Parcel Number(s) **3-6-13, and 3-6-14**, being all the property owned by Lessor or to which the Lessor may have any rights in said District or adjoining Districts, containing 4 acres and 3 acres, more or less, and begin the property described in Official Records Book 381 Page 657.

3. The Lease was executed on 10/01/2024, has a primary term of five (5) year(s) and commencing on 10/01/2024, and so much longer thereafter as oil or gas or their constituents are produced or capable of being produced on the Premises in paying quantities, in the judgement of Lessee, or as the Premises shall be operated by Lessee in the search of oil or gas and as further set forth in the Lease, unless earlier terminated in accordance with the terms and provisions of the Lease.

4. The rental, covenants, provisions and conditions of this Memorandum shall be the same as the rental, covenants, provisions and conditions set forth in the Lease to which rental, covenants, provisions and conditions reference is hereby made and the same are hereby incorporated by reference as though fully written herein.

5. In the event the lease is in the future amended or supplemented by written instrument executed by the parties in interest thereto or shall be assigned or terminated in any manner permitted under the terms thereof, then without any further act or instrument whatsoever, this Memorandum shall likewise and to the same effect be amended, assigned or terminated, as the case may be.

6. This Memorandum is executed in simplified short form for the convenience of the parties and for the purpose of recording the same or now or may hereafter be in force and effect.

7. This lease may be executed either as one instrument or in several partially executed counterparts and the original and all counterparts shall be construed together and shall constitute one lease. Should less than all of the named Lessors execute this lease, this lease shall be binding on those who are signatories.

SIGNATURE PAGES TO FOLLOW

MEMORANDUM OF OIL AND GAS LEASE

This Memorandum of Oil and Gas Lease is made this 21st day of March, 2024, with an effective date of 3-21-24, by and between **Charles Thomas Little**, with an address of 514 Middleton Rd., Fairmont, WV 26554, hereinafter referred to as "Lessor", and **Long Ridge West Virginia, LLC**, with an address of 501 Corporate Drive, Suite 210, Canonsburg, PA 15317, hereinafter called "Lessee."

WITNESSETH:

1. For and in consideration of One Dollar (\$1.00) and other good and valuable consideration paid and to be paid by Lessee to Lessor and in further consideration of the rents reserved and the covenants and conditions more particularly set forth in that certain lease between Lessor and Lessee dated 3-21-24 (hereinafter referred to as the "Lease") does hereby grant, demise, lease and let exclusively unto Lessee the following described premises:

2. Said land is situate in **Booths Creek** District, **Taylor** County, West Virginia, Tax Parcel Number(s) **3-6-12**, being all the property owned by Lessor or to which the Lessor may have any rights in said District or adjoining Districts, containing 19.45 acres, more or less, and begin the property described in Official Records Book 301 Page 425.

3. The Lease was executed on 3-21-24, has a primary term of five (5) year(s) and commencing on 3-21-24, and so much longer thereafter as oil or gas or their constituents are produced or capable of being produced on the Premises in paying quantities, in the judgement of Lessee, or as the Premises shall be operated by Lessee in the search of oil or gas and as further set forth in the Lease, unless earlier terminated in accordance with the terms and provisions of the Lease.

4. The rental, covenants, provisions and conditions of this Memorandum shall be the same as the rental, covenants, provisions and conditions set forth in the Lease to which rental, covenants, provisions and conditions reference is hereby made and the same are hereby incorporated by reference as though fully written herein.

5. In the event the lease is in the future amended or supplemented by written instrument executed by the parties in interest thereto or shall be assigned or terminated in any manner permitted under the terms thereof, then without any further act or instrument whatsoever, this Memorandum shall likewise and to the same effect be amended, assigned or terminated, as the case may be.

6. This Memorandum is executed in simplified short form for the convenience of the parties and for the purpose of recording the same or now or may hereafter be in force and effect.

7. This lease may be executed either as one instrument or in several partially executed counterparts and the original and all counterparts shall be construed together and shall constitute one lease. Should less than all of the named Lessors execute this lease, this lease shall be binding on those who are signatories.

SIGNATURE PAGES TO FOLLOW

MEMORANDUM OF OIL AND GAS LEASE

This Memorandum of Oil and Gas Lease is made this 3rd day of January, 2024, with an effective date of 1-3-24, by and between **Terry Wyer and Patricia Wyer his wife**, with an address of 605 Freeman Hill Road Bridgeport, WV 26330 hereinafter referred to as "Lessor", and **Long Ridge West Virginia, LLC**, a Delaware limited liability company, with an address of 501 Corporate Drive, Suite 210, Canonsburg, PA 15317, hereinafter called "Lessee."

WITNESSETH:

1. For and in consideration of One Dollar (\$1.00) and other good and valuable consideration paid and to be paid by Lessee to Lessor and in further consideration of the rents reserved and the covenants and conditions more particularly set forth in that certain lease between Lessor and Lessee dated 1-3-24 (hereinafter referred to as the "Lease") does hereby grant, demise, lease and let exclusively unto Lessee the following described premises:
2. Said land is situate in Bootes Creek District, Taylor County, West Virginia, Tax Map 6 Parcel(s) 26,26.1,26.4, being all the property owned by Lessor or to which the Lessor may have any rights in said District or adjoining Districts, containing 34.41 acres, more or less, and begin in the property described in Official Records Book 354 Page 413 and Book 234 Page 374 and Book 152 Page 348.
3. The Lease was executed on 1-3-24, has a primary term of five (5) year(s) and commencing on 1-3-24, and so much longer thereafter as oil or gas or their constituents are produced or capable of being produced on the Premises in paying quantities, in the judgement of Lessee, or as the Premises shall be operated by Lessee in the search of oil or gas and as further set forth in the Lease, unless earlier terminated in accordance with the terms and provisions of the Lease.
4. The rental, covenants, provisions and conditions of this Memorandum shall be the same as the rental, covenants, provisions and conditions set forth in the Lease to which rental, covenants, provisions and conditions reference is hereby made and the same are hereby incorporated by reference as though fully written herein.
5. In the event the lease is in the future amended or supplemented by written instrument executed by the parties in interest thereto or shall be assigned or terminated in any manner permitted under the terms thereof, then without any further act or instrument whatsoever, this Memorandum shall likewise and to the same effect be amended, assigned or terminated, as the case may be.
6. This Memorandum is executed in simplified short form for the convenience of the parties and for the purpose of recording the same or now or may hereafter be in force and effect.
7. This lease may be executed either as one instrument or in several partially executed counterparts and the original and all counterparts shall be construed together and shall constitute one lease. Should less than all of the named Lessors execute this lease, this lease shall be binding on those who are signatories.

SIGNATURE PAGES TO FOLLOW

MEMORANDUM OF OIL AND GAS LEASE

This Memorandum of Oil and Gas Lease is made this 5th day of April, 2024, with an effective date of 4/5/24, by and between **Beverly Sue Marks and Scott A. Marks, mother and son, JTWROS** with an address of 800 Freeman Hill Rd., Bridgeport, WV 26330, hereinafter referred to as "Lessor", and **Long Ridge West Virginia, LLC**, with an address of 501 Corporate Drive, Suite 210, Canonsburg, PA 15317, hereinafter called "Lessee."

WITNESSETH:

1. For and in consideration of One Dollar (\$1.00) and other good and valuable consideration paid and to be paid by Lessee to Lessor and in further consideration of the rents reserved and the covenants and conditions more particularly set forth in that certain lease between Lessor and Lessee dated 4/5/24 (hereinafter referred to as the "Lease") does hereby grant, demise, lease and let exclusively unto Lessee the following described premises:

2. Said land is situate in **Booths Creek** District, **Taylor** County, West Virginia, Tax Parcel Number(s) **3-6-26.2 and 3-6-27.3**, being all the property owned by Lessor or to which the Lessor may have any rights in said District or adjoining Districts, containing 4.91 acres and 0.28 acres, more or less, and begin the property described in Official Records Book 229 Page 3 and Book 229 Page 3.

3. The Lease was executed on 4/5/24, has a primary term of five (5) year(s) and commencing on 4/5/24, and so much longer thereafter as oil or gas or their constituents are produced or capable of being produced on the Premises in paying quantities, in the judgement of Lessee, or as the Premises shall be operated by Lessee in the search of oil or gas and as further set forth in the Lease, unless earlier terminated in accordance with the terms and provisions of the Lease.

4. The rental, covenants, provisions and conditions of this Memorandum shall be the same as the rental, covenants, provisions and conditions set forth in the Lease to which rental, covenants, provisions and conditions reference is hereby made and the same are hereby incorporated by reference as though fully written herein.

5. In the event the lease is in the future amended or supplemented by written instrument executed by the parties in interest thereto or shall be assigned or terminated in any manner permitted under the terms thereof, then without any further act or instrument whatsoever, this Memorandum shall likewise and to the same effect be amended, assigned or terminated, as the case may be.

6. This Memorandum is executed in simplified short form for the convenience of the parties and for the purpose of recording the same or now or may hereafter be in force and effect.

7. This lease may be executed either as one instrument or in several partially executed counterparts and the original and all counterparts shall be construed together and shall constitute one lease. Should less than all of the named Lessors execute this lease, this lease shall be binding on those who are signatories.

SIGNATURE PAGES TO FOLLOW

MORGAN THOMPSON
1504 14TH ST
PARKERSBURG WV 26101-4156

75-65

Taylor County
Jaron Freeman, Clerk
Instrument 202400007044
10/11/2024 @ 10:33:03 AM
OIL & GAS LEASE
Book 75 @ Page 65
Pages Recorded 2
Recording Cost \$ 12.00

MEMORANDUM OF OIL AND GAS LEASE

This Memorandum of Oil and Gas Lease is made this 16 day of September, 2024, with an effective date of 9/16/2024, by and between Augusta Resources, LLC, with an address of 21 E Main St., Ste. 112, Buckhannon, WV 26201, hereinafter referred to as "Lessor", and Long Ridge West Virginia, LLC, with an address of 501 Corporate Drive, Suite 210, Canonsburg, PA 15317, hereinafter called "Lessee."

WITNESSETH:

1. For and in consideration of One Dollar (\$1.00) and other good and valuable consideration paid and to be paid by Lessee to Lessor and in further consideration of the rents reserved and the covenants and conditions more particularly set forth in that certain lease between Lessor and Lessee dated Sept. 16, 2024 (hereinafter referred to as the "Lease") does hereby grant, demise, lease and let exclusively unto Lessee the following described premises:

2. Said land is situate in Booths Creek District, Taylor County, West Virginia, Tax Parcel Number(s) 3-6-35.3, 3-6-37, 3-6-37.2, 3-6-37.3, 3-6-37.4, being all the property owned by Lessor or to which the Lessor may have any rights in said District or adjoining Districts, containing 47.52 acres, more or less, and begin the property described in Official Records Book 173 Page 1.

3. The Lease was executed on 9-16-24, has a primary term of five (5) year(s) and commencing on 9-16-24, and so much longer thereafter as oil or gas or their constituents are produced or capable of being produced on the Premises in paying quantities, in the judgement of Lessee, or as the Premises shall be operated by Lessee in the search of oil or gas and as further set forth in the Lease, unless earlier terminated in accordance with the terms and provisions of the Lease.

4. The rental, covenants, provisions and conditions of this Memorandum shall be the same as the rental, covenants, provisions and conditions set forth in the Lease to which rental, covenants, provisions and conditions reference is hereby made and the same are hereby incorporated by reference as though fully written herein.

5. In the event the lease is in the future amended or supplemented by written instrument executed by the parties in interest thereto or shall be assigned or terminated in any manner permitted under the terms thereof, then without any further act or instrument whatsoever, this Memorandum shall likewise and to the same effect be amended, assigned or terminated, as the case may be.

6. This Memorandum is executed in simplified short form for the convenience of the parties and for the purpose of recording the same or now or may hereafter be in force and effect.

7. This lease may be executed either as one instrument or in several partially executed counterparts and the original and all counterparts shall be construed together and shall constitute one lease. Should less than all of the named Lessors execute this lease, this lease shall be binding on those who are signatories.

SIGNATURE PAGES TO FOLLOW

MEMORANDUM OF OIL AND GAS LEASE

This Memorandum of Oil and Gas Lease is made this 2 day of May, 2024, with an effective date of 5-2-24, by and between **Robert C. Boyle and Diana L. Boyle, JTWROS** with an address of 302 Mountain Meadow LN., Bridgeport, WV 26330, hereinafter referred to as "**Lessor**", and **Long Ridge West Virginia, LLC**, with an address of 501 Corporate Drive, Suite 210, Canonsburg, PA 15317, hereinafter called "**Lessee**."

WITNESSETH:

1. For and in consideration of One Dollar (\$1.00) and other good and valuable consideration paid and to be paid by Lessee to Lessor and in further consideration of the rents reserved and the covenants and conditions more particularly set forth in that certain lease between Lessor and Lessee dated 5-2-24 (hereinafter referred to as the "**Lease**") does hereby grant, demise, lease and let exclusively unto Lessee the following described premises:
2. Said land is situate in **Booths Creek District, Taylor County, West Virginia**, Tax Parcel Number(s) **3-6-36.1, 3-6-36.2, 3-6-36.4, 3-6-53, 3-6-53.6**, being all the property owned by Lessor or to which the Lessor may have any rights in said District or adjoining Districts, containing 5.58 acres, 5.58 acres, 5.58 acres, 22.64 acres, and 12.18 acres, more or less, and begin the property described in Official Records Book 304 Page 109, Book 253, Page 469, Book 214, Page 380.
3. The Lease was executed on 5-2-24, has a primary term of five (5) year(s) and commencing on 5-2-24, and so much longer thereafter as oil or gas or their constituents are produced or capable of being produced on the Premises in paying quantities, in the judgement of Lessee, or as the Premises shall be operated by Lessee in the search of oil or gas and as further set forth in the Lease, unless earlier terminated in accordance with the terms and provisions of the Lease.
4. The rental, covenants, provisions and conditions of this Memorandum shall be the same as the rental, covenants, provisions and conditions set forth in the Lease to which rental, covenants, provisions and conditions reference is hereby made and the same are hereby incorporated by reference as though fully written herein.
5. In the event the lease is in the future amended or supplemented by written instrument executed by the parties in interest thereto or shall be assigned or terminated in any manner permitted under the terms thereof, then without any further act or instrument whatsoever, this Memorandum shall likewise and to the same effect be amended, assigned or terminated, as the case may be.
6. This Memorandum is executed in simplified short form for the convenience of the parties and for the purpose of recording the same or now or may hereafter be in force and effect.
7. This lease may be executed either as one instrument or in several partially executed counterparts and the original and all counterparts shall be construed together and shall constitute one lease. Should less than all of the named Lessors execute this lease, this lease shall be binding on those who are signatories.

SIGNATURE PAGES TO FOLLOW

MEMORANDUM OF OIL AND GAS LEASE

This Memorandum of Oil and Gas Lease is made this 2 day of May, 2024, with an effective date of 5-2-24, by and between **Robert C. Boyle and Diana L. Boyle, JTWROS** with an address of 302 Mountain Meadow LN., Bridgeport, WV 26330, hereinafter referred to as "**Lessor**", and **Long Ridge West Virginia, LLC**, with an address of 501 Corporate Drive, Suite 210, Canonsburg, PA 15317, hereinafter called "**Lessee**."

WITNESSETH:

1. For and in consideration of One Dollar (\$1.00) and other good and valuable consideration paid and to be paid by Lessee to Lessor and in further consideration of the rents reserved and the covenants and conditions more particularly set forth in that certain lease between Lessor and Lessee dated 5-2-24 (hereinafter referred to as the "**Lease**") does hereby grant, demise, lease and let exclusively unto Lessee the following described premises:

2. Said land is situate in **Booths Creek District, Taylor County, West Virginia**, Tax Parcel Number(s) **3-6-36.1, 3-6-36.2, 3-6-36.4, 3-6-53, 3-6-53.6**, being all the property owned by Lessor or to which the Lessor may have any rights in said District or adjoining Districts, containing 5.58 acres, 5.58 acres, 5.58 acres, 22.64 acres, and 12.18 acres, more or less, and begin the property described in Official Records Book 304 Page 109, Book 253, Page 469, Book 214, Page 380.

3. The Lease was executed on 5-2-24, has a primary term of five (5) year(s) and commencing on 5-2-24, and so much longer thereafter as oil or gas or their constituents are produced or capable of being produced on the Premises in paying quantities, in the judgement of Lessee, or as the Premises shall be operated by Lessee in the search of oil or gas and as further set forth in the Lease, unless earlier terminated in accordance with the terms and provisions of the Lease.

4. The rental, covenants, provisions and conditions of this Memorandum shall be the same as the rental, covenants, provisions and conditions set forth in the Lease to which rental, covenants, provisions and conditions reference is hereby made and the same are hereby incorporated by reference as though fully written herein.

5. In the event the lease is in the future amended or supplemented by written instrument executed by the parties in interest thereto or shall be assigned or terminated in any manner permitted under the terms thereof, then without any further act or instrument whatsoever, this Memorandum shall likewise and to the same effect be amended, assigned or terminated, as the case may be.

6. This Memorandum is executed in simplified short form for the convenience of the parties and for the purpose of recording the same or now or may hereafter be in force and effect.

7. This lease may be executed either as one instrument or in several partially executed counterparts and the original and all counterparts shall be construed together and shall constitute one lease. Should less than all of the named Lessors execute this lease, this lease shall be binding on those who are signatories.

SIGNATURE PAGES TO FOLLOW

MEMORANDUM OF OIL AND GAS LEASE

This Memorandum of Oil and Gas Lease is made this 9 day of December, 2024, with an effective date of 12-9-24, by and between **Sharon Lee Johnston**, with an address of 101 Winding View Trail, Georgetown, KY 40324, hereinafter referred to as "**Lessor**", and **Long Ridge West Virginia, LLC**, with an address of 501 Corporate Drive, Suite 210, Canonsburg, PA 15317, hereinafter called "**Lessee**."

WITNESSETH:

1. For and in consideration of One Dollar (\$1.00) and other good and valuable consideration paid and to be paid by Lessee to Lessor and in further consideration of the rents reserved and the covenants and conditions more particularly set forth in that certain lease between Lessor and Lessee dated 12-9-24 (hereinafter referred to as the "**Lease**") does hereby grant, demise, lease and let exclusively unto Lessee the following described premises:

2. Said land is situate in **Booths Creek** District, **Taylor** County, West Virginia, Tax Parcel Number(s) **3-6-53**, and **3-6-53.6**, being all the property owned by Lessor or to which the Lessor may have any rights in said District or adjoining Districts, containing 22.64 acres, and 12.18 acres, more or less, and begin the property described in Official Records Book 253 Page 469, and Book 214 Page 380.

3. The Lease was executed on 12-9-24, has a primary term of five (5) year(s) and commencing on 12-9-24, and so much longer thereafter as oil or gas or their constituents are produced or capable of being produced on the Premises in paying quantities, in the judgement of Lessee, or as the Premises shall be operated by Lessee in the search of oil or gas and as further set forth in the Lease, unless earlier terminated in accordance with the terms and provisions of the Lease.

4. The rental, covenants, provisions and conditions of this Memorandum shall be the same as the rental, covenants, provisions and conditions set forth in the Lease to which rental, covenants, provisions and conditions reference is hereby made and the same are hereby incorporated by reference as though fully written herein.

5. In the event the lease is in the future amended or supplemented by written instrument executed by the parties in interest thereto or shall be assigned or terminated in any manner permitted under the terms thereof, then without any further act or instrument whatsoever, this Memorandum shall likewise and to the same effect be amended, assigned or terminated, as the case may be.

6. This Memorandum is executed in simplified short form for the convenience of the parties and for the purpose of recording the same or now or may hereafter be in force and effect.

7. This lease may be executed either as one instrument or in several partially executed counterparts and the original and all counterparts shall be construed together and shall constitute one lease. Should less than all of the named Lessors execute this lease, this lease shall be binding on those who are signatories.

SIGNATURE PAGES TO FOLLOW

MEMORANDUM OF OIL AND GAS LEASE

This Memorandum of Oil and Gas Lease is made this 12th day of December, 2024, with an effective date of 12/12/24, by and between **Juliane Brumbaugh AKA Juliane Murphy Brumbaugh**, with an address of 8513 Bowden Way, Windermere, FL 34786, hereinafter referred to as "Lessor", and **Long Ridge West Virginia, LLC**, with an address of 501 Corporate Drive, Suite 210, Canonsburg, PA 15317, hereinafter called "Lessee."

WITNESSETH:

1. For and in consideration of One Dollar (\$1.00) and other good and valuable consideration paid and to be paid by Lessee to Lessor and in further consideration of the rents reserved and the covenants and conditions more particularly set forth in that certain lease between Lessor and Lessee dated 12/12/24 (hereinafter referred to as the "Lease") does hereby grant, demise, lease and let exclusively unto Lessee the following described premises:

2. Said land is situate in **Booths Creek** District, **Taylor** County, West Virginia, Tax Parcel Number(s) **3-6-53 and 3-6-53.6**, being all the property owned by Lessor or to which the Lessor may have any rights in said District or adjoining Districts, containing 22.64 acres and 12.18 acres, more or less, and begin the property described in Official Records Book 253 Page 469, and Book 214 Page 380.

3. The Lease was executed on 12/12/24, has a primary term of five (5) year(s) and commencing on 12/12/24, and so much longer thereafter as oil or gas or their constituents are produced or capable of being produced on the Premises in paying quantities, in the judgement of Lessee, or as the Premises shall be operated by Lessee in the search of oil or gas and as further set forth in the Lease, unless earlier terminated in accordance with the terms and provisions of the Lease.

4. The rental, covenants, provisions and conditions of this Memorandum shall be the same as the rental, covenants, provisions and conditions set forth in the Lease to which rental, covenants, provisions and conditions reference is hereby made and the same are hereby incorporated by reference as though fully written herein.

5. In the event the lease is in the future amended or supplemented by written instrument executed by the parties in interest thereto or shall be assigned or terminated in any manner permitted under the terms thereof, then without any further act or instrument whatsoever, this Memorandum shall likewise and to the same effect be amended, assigned or terminated, as the case may be.

6. This Memorandum is executed in simplified short form for the convenience of the parties and for the purpose of recording the same or now or may hereafter be in force and effect.

7. This lease may be executed either as one instrument or in several partially executed counterparts and the original and all counterparts shall be construed together and shall constitute one lease. Should less than all of the named Lessors execute this lease, this lease shall be binding on those who are signatories.

SIGNATURE PAGES TO FOLLOW

MEMORANDUM OF OIL AND GAS LEASE

This Memorandum of Oil and Gas Lease is made this 13 day of December, 2024, with an effective date of 12-13-24, by and between **Jacquelyn Riffe AKA Jacquelyn A. Riffe**, with an address of 340 Kingston Ave., Steubenville, OH 43952, hereinafter referred to as "Lessor", and **Long Ridge West Virginia, LLC**, with an address of 501 Corporate Drive, Suite 210, Canonsburg, PA 15317, hereinafter called "Lessee."

WITNESSETH:

1. For and in consideration of One Dollar (\$1.00) and other good and valuable consideration paid and to be paid by Lessee to Lessor and in further consideration of the rents reserved and the covenants and conditions more particularly set forth in that certain lease between Lessor and Lessee dated 12-13-24 (hereinafter referred to as the "Lease") does hereby grant, demise, lease and let exclusively unto Lessee the following described premises:
2. Said land is situate in **Booths Creek District, Taylor County, West Virginia**, Tax Parcel Number(s) **3-6-53 and 3-6-53.6**, being all the property owned by Lessor or to which the Lessor may have any rights in said District or adjoining Districts, containing 22.64 acres and 12.18 acres, more or less, and begin the property described in Official Records Book 253 Page 469, and Book 214 Page 380.
3. The Lease was executed on 12-13-24, has a primary term of five (5) year(s) and commencing on 12-13-24, and so much longer thereafter as oil or gas or their constituents are produced or capable of being produced on the Premises in paying quantities, in the judgement of Lessee, or as the Premises shall be operated by Lessee in the search of oil or gas and as further set forth in the Lease, unless earlier terminated in accordance with the terms and provisions of the Lease.
4. The rental, covenants, provisions and conditions of this Memorandum shall be the same as the rental, covenants, provisions and conditions set forth in the Lease to which rental, covenants, provisions and conditions reference is hereby made and the same are hereby incorporated by reference as though fully written herein.
5. In the event the lease is in the future amended or supplemented by written instrument executed by the parties in interest thereto or shall be assigned or terminated in any manner permitted under the terms thereof, then without any further act or instrument whatsoever, this Memorandum shall likewise and to the same effect be amended, assigned or terminated, as the case may be.
6. This Memorandum is executed in simplified short form for the convenience of the parties and for the purpose of recording the same or now or may hereafter be in force and effect.
7. This lease may be executed either as one instrument or in several partially executed counterparts and the original and all counterparts shall be construed together and shall constitute one lease. Should less than all of the named Lessors execute this lease, this lease shall be binding on those who are signatories.

SIGNATURE PAGES TO FOLLOW

75-128

Taylor County
Jaron Freeman, Clerk
Instrument 20240007317
10/24/2024 @ 02:11:21 PM
OIL & GAS LEASE
Book 75 @ Page 128
Pages Recorded 4
Recording Cost \$ 12.00

MEMORANDUM OF OIL AND GAS LEASE

This Memorandum of Oil and Gas Lease is made this 15 day of October, 2024, with an effective date of October 15, 2024, by and between Thomas I. McDaniel, Sr., Life Estate and Thomas I. McDaniel, II and Kathy I. McDaniel, husband and wife, Remaindermen, with an address of 162 Mauller Way, Bridgeport, WV 26330, hereinafter referred to as "Lessor", and Long Ridge West Virginia, LLC, with an address of 501 Corporate Drive, Suite 210, Canonsburg, PA 15317, hereinafter called "Lessee."

KIM

WITNESSETH:

1. For and in consideration of One Dollar (\$1.00) and other good and valuable consideration paid and to be paid by Lessee to Lessor and in further consideration of the rents reserved and the covenants and conditions more particularly set forth in that certain lease between Lessor and Lessee dated October 15, 2024 (hereinafter referred to as the "Lease") does hereby grant, demise, lease and let exclusively unto Lessee the following described premises:

2. Said land is situate in **Booths Creek** District, **Taylor County**, West Virginia, Tax Parcel Number(s) **3-6-38**, being all the property owned by Lessor or to which the Lessor may have any rights in said District or adjoining Districts, containing 14.588 acres, more or less, and begin the property described in Official Records Book 261 Page 124.

3. The Lease was executed on October 15, 2024, has a primary term of five (5) year(s) and commencing on October 15, 2024 and so much longer thereafter as oil or gas or their constituents are produced or capable of being produced on the Premises in paying quantities, in the judgement of Lessee, or as the Premises shall be operated by Lessee in the search of oil or gas and as further set forth in the Lease, unless earlier terminated in accordance with the terms and provisions of the Lease.

4. The rental, covenants, provisions and conditions of this Memorandum shall be the same as the rental, covenants, provisions and conditions set forth in the Lease to which rental, covenants, provisions and conditions reference is hereby made and the same are hereby incorporated by reference as though fully written herein.

5. In the event the lease is in the future amended or supplemented by written instrument executed by the parties in interest thereto or shall be assigned or terminated in any manner permitted under the terms thereof, then without any further act or instrument whatsoever, this Memorandum shall likewise and to the same effect be amended, assigned or terminated, as the case may be.

6. This Memorandum is executed in simplified short form for the convenience of the parties and for the purpose of recording the same or now or may hereafter be in force and effect.

7. This lease may be executed either as one instrument or in several partially executed counterparts and the original and all counterparts shall be construed together and shall constitute one lease. Should less than all of the named Lessors execute this lease, this lease shall be binding on those who are signatories.

SIGNATURE PAGES TO FOLLOW

75-108

Taylor County
Jaron Freeman, Clerk
Instrument 202400007308
10/24/2024 @ 02:11:12 PM
OIL & GAS LEASE
Book 75 @ Page 108
Pages Recorded 2
Recording Cost \$ 12.00

MEMORANDUM OF OIL AND GAS LEASE

This Memorandum of Oil and Gas Lease is made this 15 day of October, 2024, with an effective date of October 15, 2024 by and between John D. Mauller aka J. Dale Mauller, with an address of 50 Mauller Way, Bridgeport, WV 26330, hereinafter referred to as "Lessor", and Long Ridge West Virginia, LLC, with an address of 501 Corporate Drive, Suite 210, Canonsburg, PA 15317, hereinafter called "Lessee."

WITNESSETH:

1. For and in consideration of One Dollar (\$1.00) and other good and valuable consideration paid and to be paid by Lessee to Lessor and in further consideration of the rents reserved and the covenants and conditions more particularly set forth in that certain lease between Lessor and Lessee dated October 15, 2024 (hereinafter referred to as the "Lease") does hereby grant, demise, lease and let exclusively unto Lessee the following described premises:

2. Said land is situate in Booths Creek District, Taylor County, West Virginia, Tax Parcel Number(s) 3-6-51.1, being all the property owned by Lessor or to which the Lessor may have any rights in said District or adjoining Districts, containing 4.863 acres, more or less, and begin in the property described in Official Records Book 261 Page 127.

3. The Lease was executed on 10/15/2024, has a primary term of five (5) year(s) and commencing on 10/15/2024, and so much longer thereafter as oil or gas or their constituents are produced or capable of being produced on the Premises in paying quantities, in the judgement of Lessee, or as the Premises shall be operated by Lessee in the search of oil or gas and as further set forth in the Lease, unless earlier terminated in accordance with the terms and provisions of the Lease.

4. The rental, covenants, provisions and conditions of this Memorandum shall be the same as the rental, covenants, provisions and conditions set forth in the Lease to which rental, covenants, provisions and conditions reference is hereby made and the same are hereby incorporated by reference as though fully written herein.

5. In the event the lease is in the future amended or supplemented by written instrument executed by the parties in interest thereto or shall be assigned or terminated in any manner permitted under the terms thereof, then without any further act or instrument whatsoever, this Memorandum shall likewise and to the same effect be amended, assigned or terminated, as the case may be.

6. This Memorandum is executed in simplified short form for the convenience of the parties and for the purpose of recording the same or now or may hereafter be in force and effect.

7. This lease may be executed either as one instrument or in several partially executed counterparts and the original and all counterparts shall be construed together and shall constitute one lease. Should less than all of the named Lessors execute this lease, this lease shall be binding on those who are signatories.

SIGNATURE PAGES TO FOLLOW

04/18/2025

MEMORANDUM OF OIL AND GAS LEASE

This Memorandum of Oil and Gas Lease is made this 25th day of May, 2023 with an effective date of MAY 25, 2023 by and between Erik and Stephanie Hurst, with an address of 976 Taylor School Road Bridgeport, WV 26330, hereinafter referred to as "Lessor", and Long Ridge West Virginia, LLC, a Delaware limited liability company, with an address of 501 Corporate Drive, Suite 210, Canonsburg, PA 15317, hereinafter called "Lessee."

WITNESSETH:

1. For and in consideration of One Dollar (\$1.00) and other good and valuable consideration paid and to be paid by Lessee to Lessor and in further consideration of the rents reserved and the covenants and conditions more particularly set forth in that certain lease between Lessor and Lessee dated 5-25-2023 (hereinafter referred to as the "Lease") does hereby grant, demise, lease and let exclusively unto Lessee the following described premises:

2. Said land is situate in Boothes Creek District, Taylor County, West Virginia, Tax Map 6 Parcel 50 being all the property owned by Lessor or to which the Lessor may have any rights in said District or adjoining Districts, containing 11.56 acres, more or less, and begin the property described in Official Deed Book 323 Page 74.

3. The Lease was executed on 5-25-2023 has a primary term of five (5) year(s) and commencing on 5-25-2023 and so much longer thereafter as oil or gas or their constituents are produced or capable of being produced on the Premises in paying quantities, in the judgement of Lessee, or as the Premises shall be operated by Lessee in the search of oil or gas and as further set forth in the Lease, unless earlier terminated in accordance with the terms and provisions of the Lease.

4. The rental, covenants, provisions and conditions of this Memorandum shall be the same as the rental, covenants, provisions and conditions set forth in the Lease to which rental, covenants, provisions and conditions reference is hereby made and the same are hereby incorporated by reference as though fully written herein.

5. In the event the lease is in the future amended or supplemented by written instrument executed by the parties in interest thereto or shall be assigned or terminated in any manner permitted under the terms thereof, then without any further act or instrument whatsoever, this Memorandum shall likewise and to the same effect be amended, assigned or terminated, as the case may be.

6. This Memorandum is executed in simplified short form for the convenience of the parties and for the purpose of recording the same or now or may hereafter be in force and effect.

7. This lease may be executed either as one instrument or in several partially executed counterparts and the original and all counterparts shall be construed together and shall constitute one lease. Should less than all of the named Lessors execute this lease, this lease shall be binding on those who are signatories.

SIGNATURE PAGES TO FOLLOW

ASSIGNMENT OF FARMOUT AGREEMENT

STATE OF WEST VIRGINIA §
 §
COUNTY OF HARRISON §

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

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

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

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

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



April 1, 2025

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

RE: Permit Modification Submission – Abbey South 8MH

Dear Taylor:

On behalf of Diversified Production Company, LLC and Long Ridge West Virginia LLC, Aux Energy is pleased to submit the enclosed Horizontal H6A Modification for the Abbey South 8MH. Additional leases have been acquired, allowing us to alter the wellbore. The proposed well is located within Harrison County, WV. Enclosed, please find the following:

- Application fee
- Updated WW-6B
- Flash Drive containing Site Safety Plan and SDS Sheets
- Updated Well Plat and WW-6A1 Information

If you have any questions or need any additional information, please feel free to contact me at 304-376-0111. Thank you for your consideration.

Sincerely,

Amy L. Morris
Director of Regulatory Affairs

OK #11771
7500.00

RECEIVED
Office of Oil and Gas
APR 02 2025
WV Department of
Environmental Protection

04/18/2025