



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 6MH
47-033-06047-00-00

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 6MH
Farm Name: Long Ridge West Virginia LLC
U.S. WELL NUMBER: 47-033-06047-00-00
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	25,971'	25,971'	4,548ft^3/6,118ft
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"	12,924	12,924	Class A	1.19 - 1.55
Tubing	2.375"	N/A	0.19	11,200	5,575	N/A	N/A
Liners	N/A	N/A	N/A	N/A	N/A	N/A	N/A

PACKERS

Kind:				
Sizes:				
Depths Set:				

Ry Weicht 2/6/25

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:

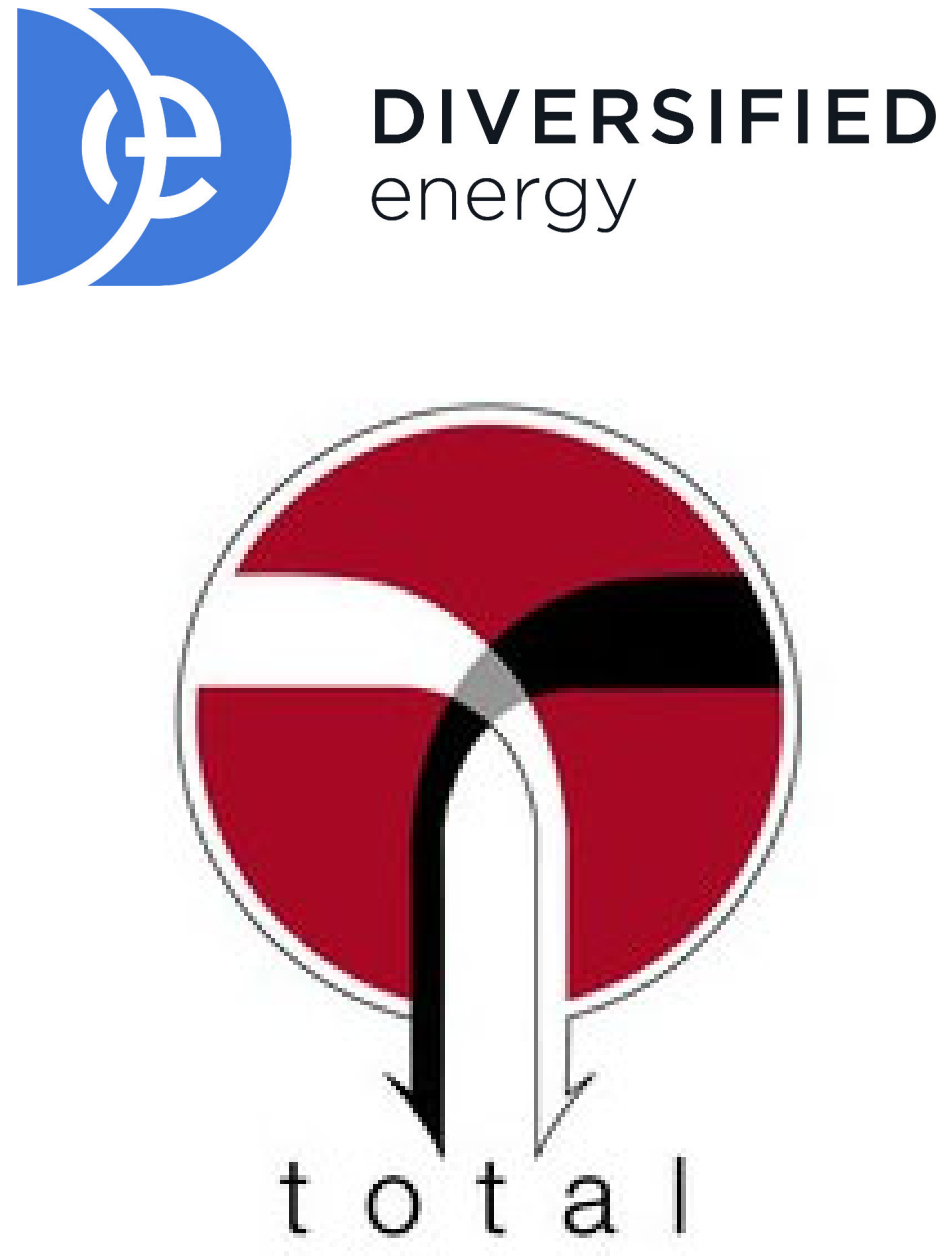
24) Describe all cement additives associated with each cement type:

25) Proposed borehole conditioning procedures:

*Note: Attach additional sheets as needed.

Well Name: Abbey South 6MH		 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		26 "	20" 52.73# Grade A PE&B Conductor		No Centralizers
							Hole is auger drilled: No conditioning required.
Surface	160'	DFGW	750' MD 750' TVD	17-1/2"	13 3/8 48# H40 BTC	Tail (50% OH excess) 15.6 ppg Class A Cement to surface	Every 3rd joint from shoe to surface
	623'	Freeport Coal		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.
	583'	Pottsville Sand					
	750'	Casing Point TVD					
Intermediate	1,146'	Little Lime	2545' MD 2545' TVD	12-1/4"	9 5/8 36# J55 LTC	Lead (25% OH excess) 14.5 ppg class A Cement to surface Tail (25% OH excess) 15.6 ppg class A Top of Tail @ ~2036'	Every 3rd joint from shoe to surface
	1,207'	Big Lime		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.
	1,291'	Big Injun Sandstone					
	1,666'	Berea Sandstone					
	1,766'	Fifty Foot Sandstone					
	2,055'	Gordon Sandstone					
	2,225'	Fourth Sand Sandstone					
	2,295'	Fifth Sand Sandstone					
	2,545'	Casing Point TVD					
Production	2,975'	Speechley Sandstone	KOP 7118' MD 6772' TVD	8-3/4" Above Curve Air/ Mist	5 1/2 20# HP P110 Semi- Premium	Tail (10% OH excess) 15.2 ppg Class A Top of Tail @ ~6118'	Every other joint from shoe to Top of Cement
	4,300'	Benson Sandstone		8-1/2" Curve & Lateral 11.5 - 12.5 ppg MW			Circulate hole with synthetic based drilling fluid at TD until hole is clean and free of excess gas above background. TOO H and circulate minimum of 1 bottoms up and until returns are minimal at the base of the curve. Run casing, circulate and ensure good returns and low gas before cementing.
	6,886'	Burkett Shale					
	6,772'	KOP (TVD)					
	6,920'	Tully Limestone					
	7,024'	Hamilton Shale					
	7,103'	Marcellus Shale					
	7,230'	Landing Point (TVD)					
	7,239'	Onondaga					

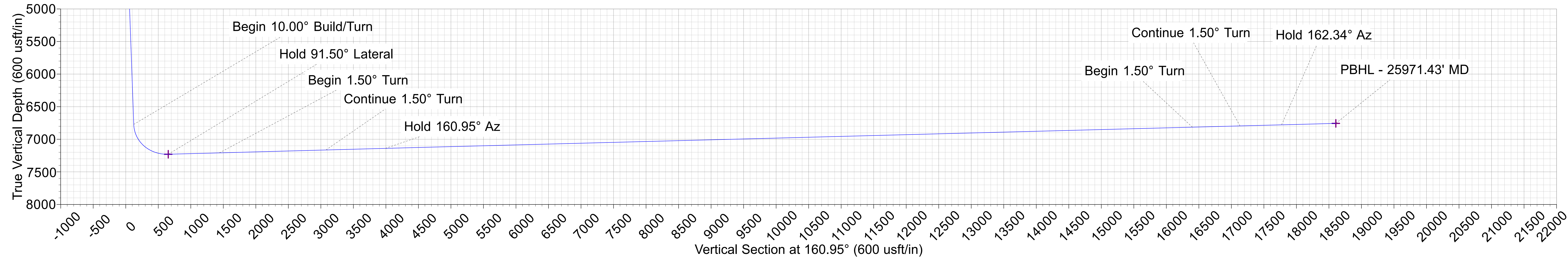
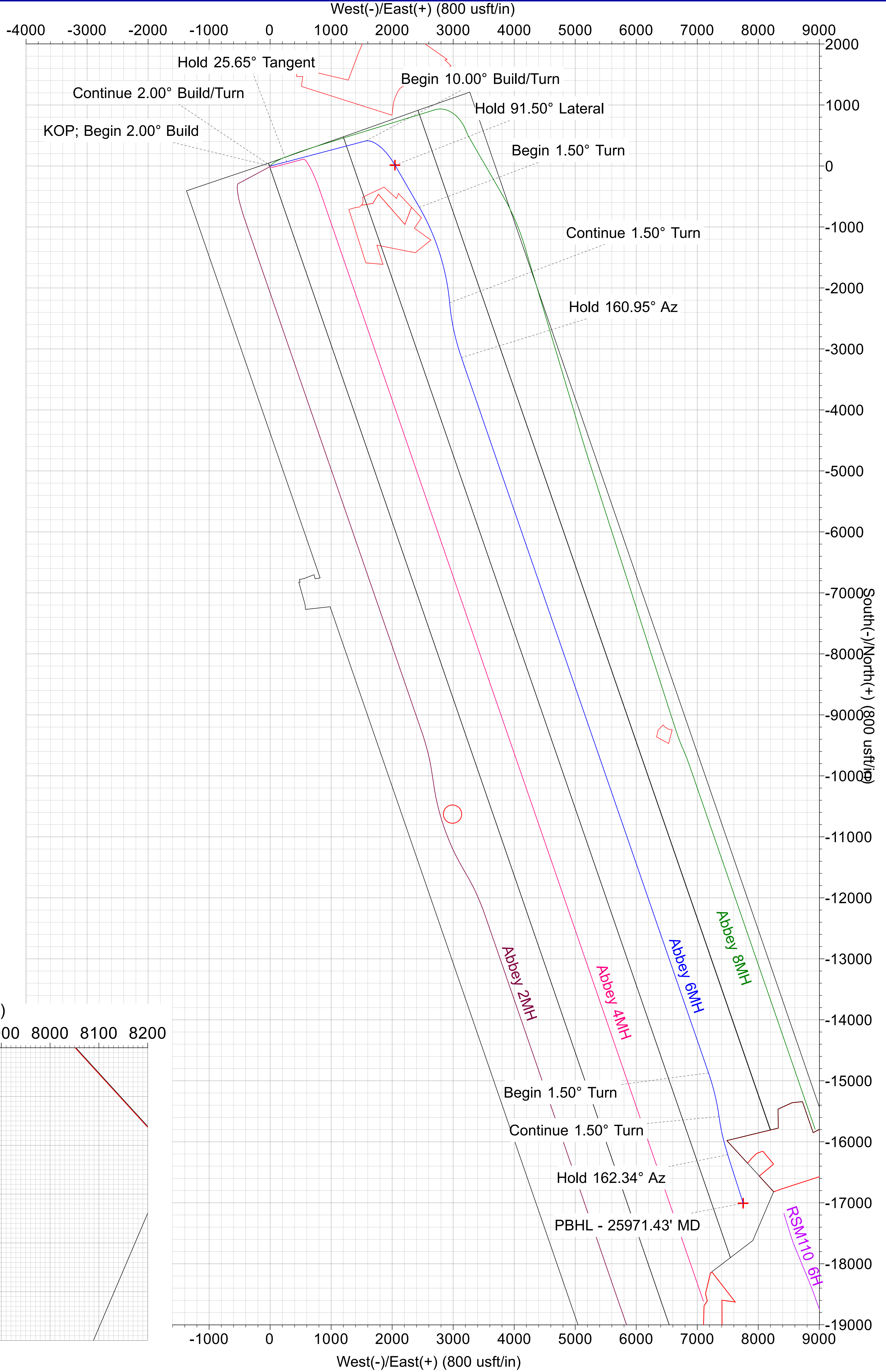
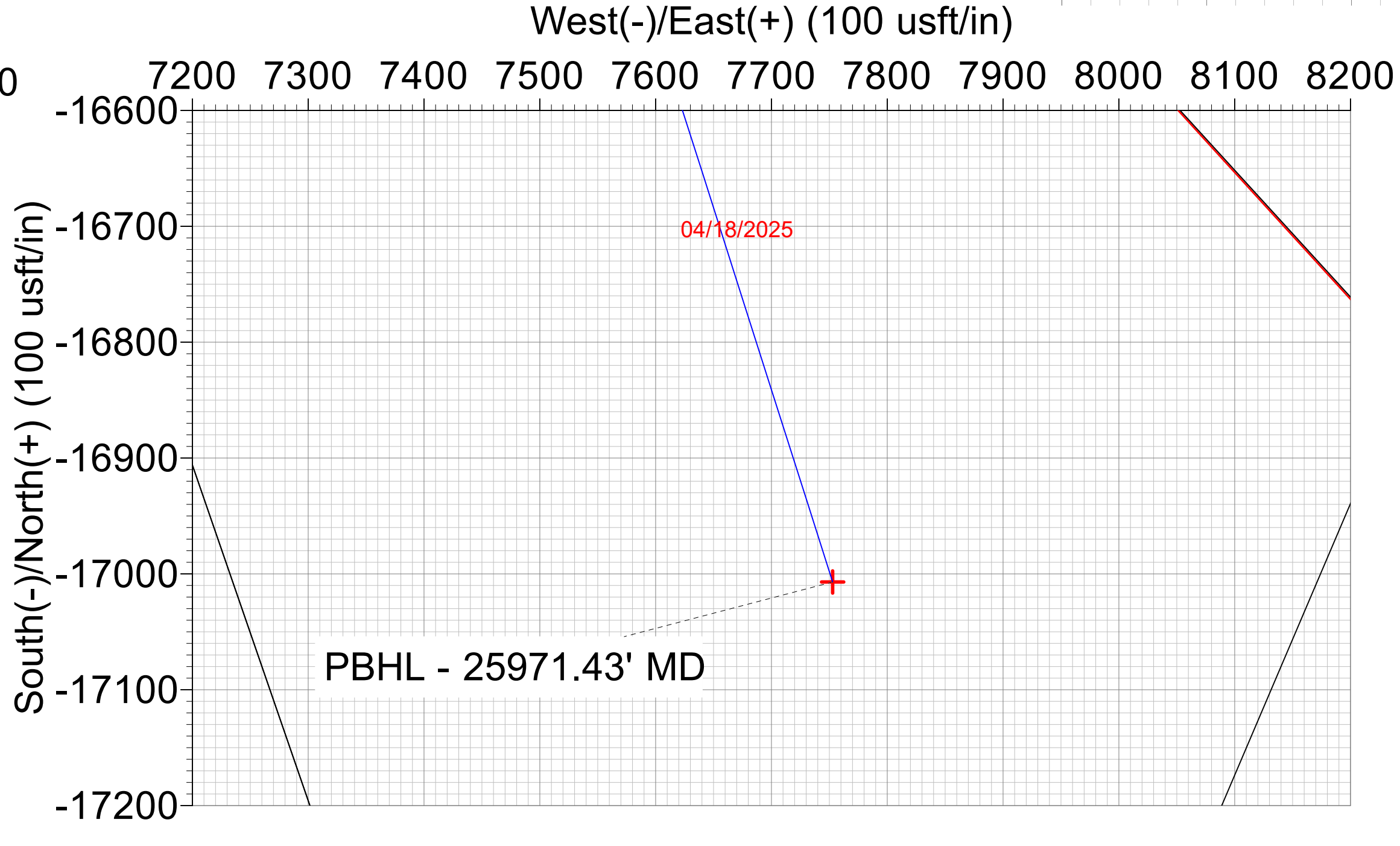
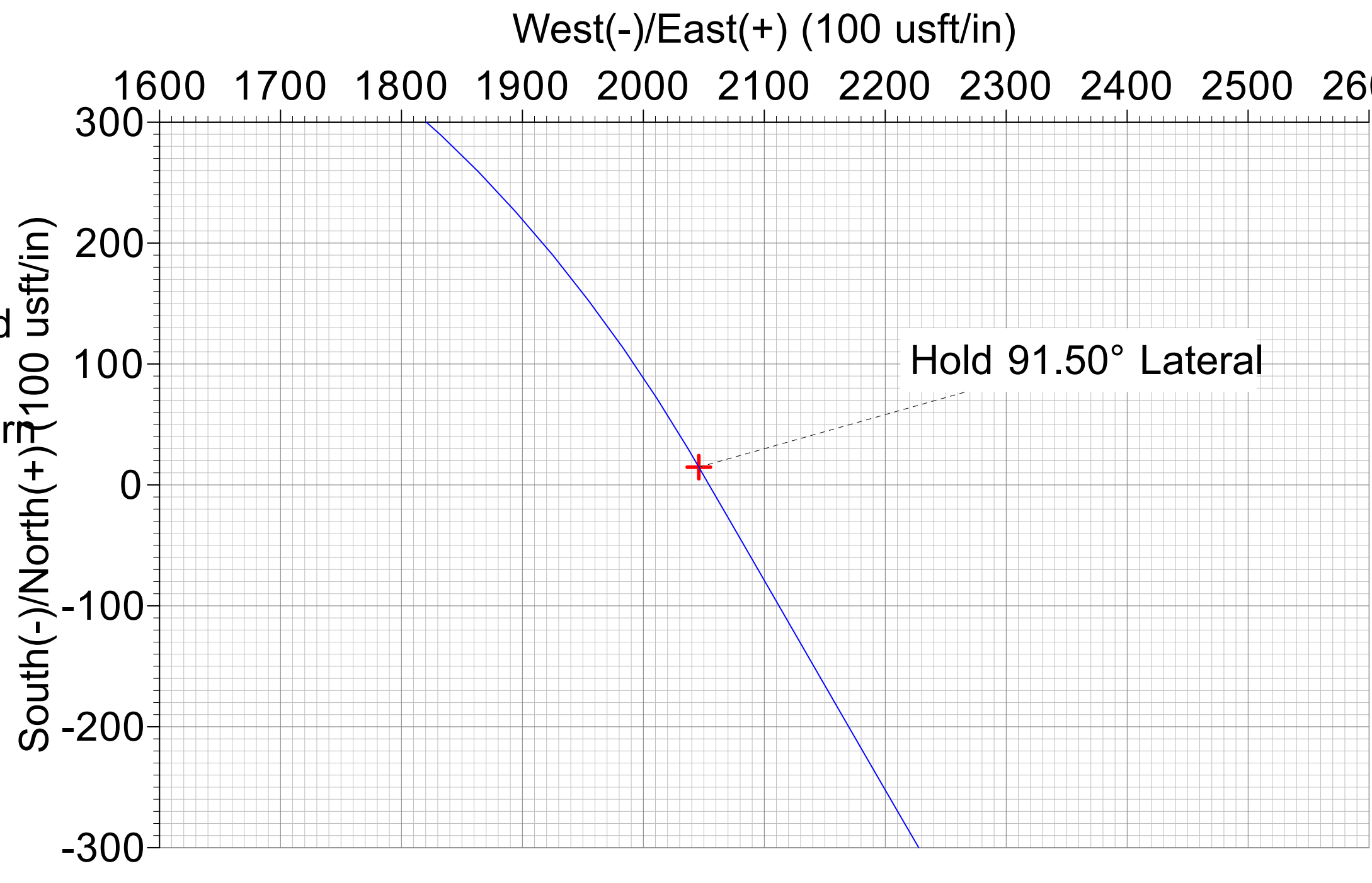
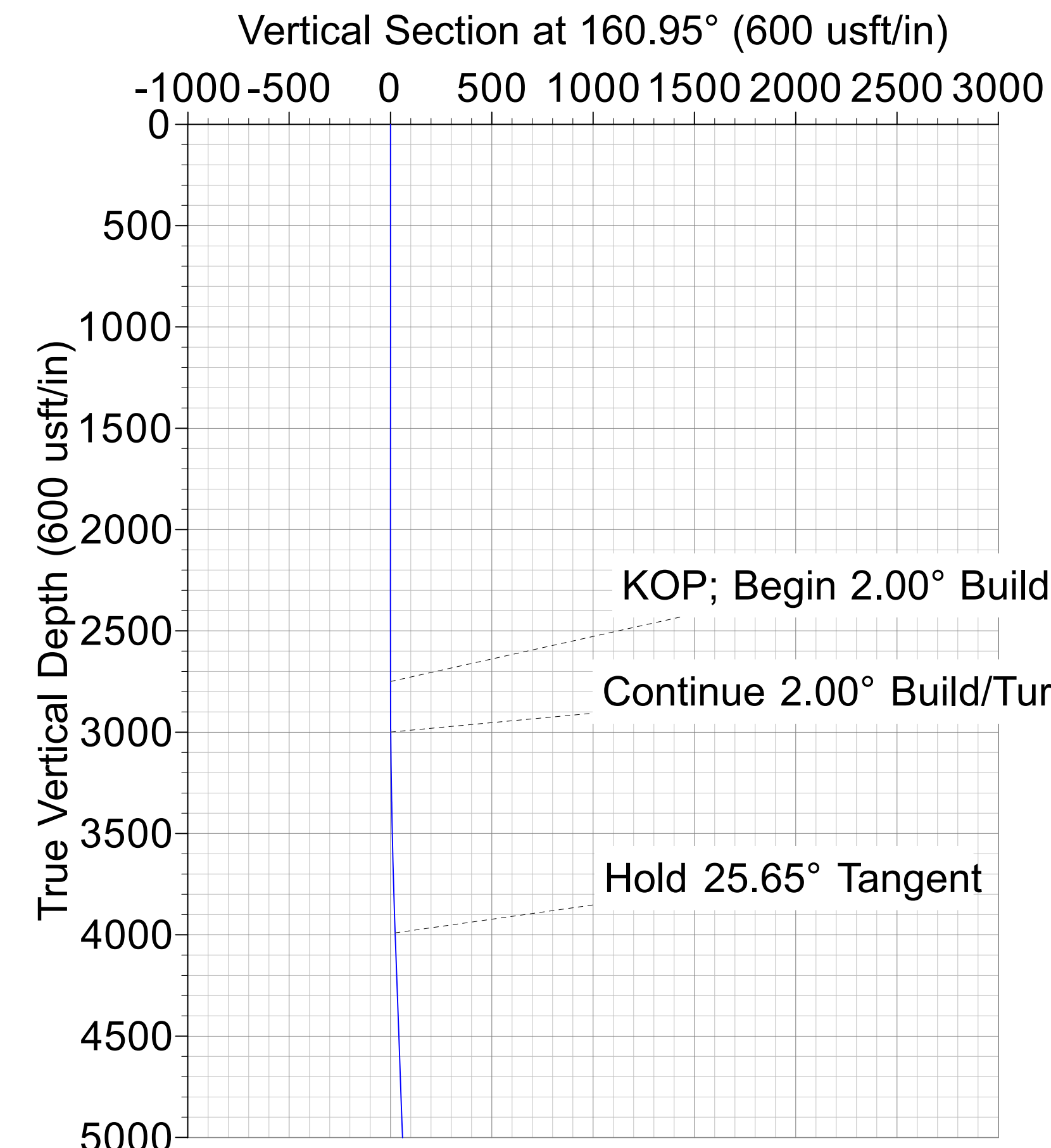
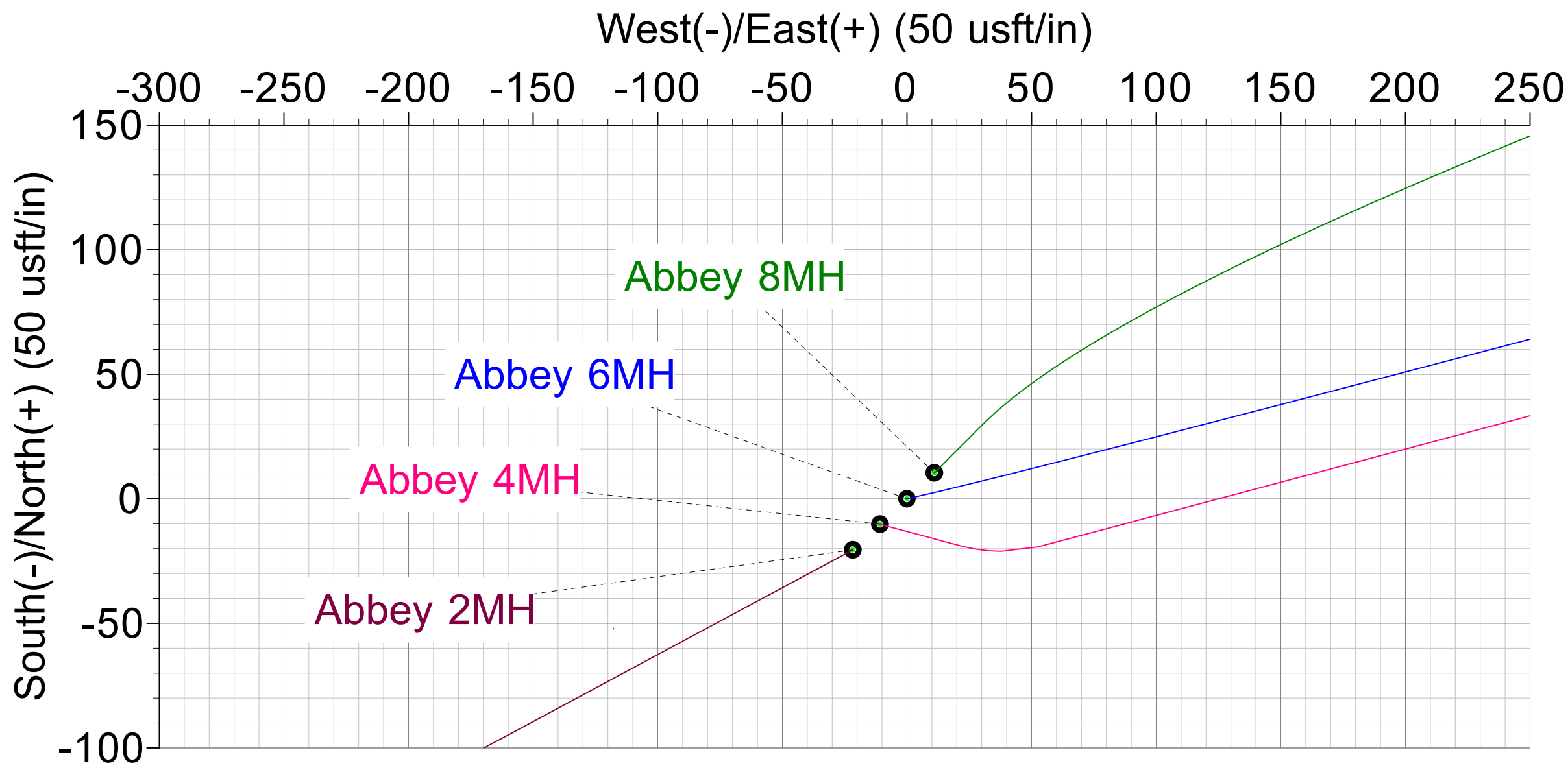
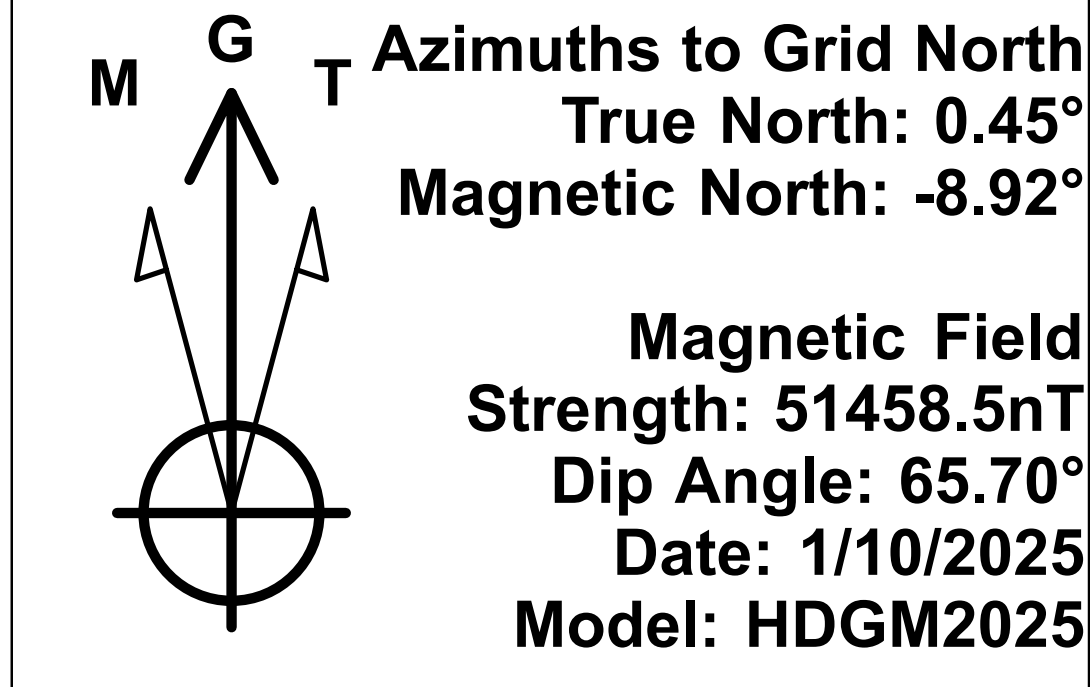


SECTION DETAILS										
	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	2750.00	0.00	0.00	2750.00	0.00	0.00	0.00	0.00	0.00	KOP: Begin 2.00° Build
	3000.00	5.00	77.00	2999.68	2.45	10.62	2.00	77.00	1.15	Continue 2.00° Build/Turn
	4032.67	25.65	75.25	3990.25	70.21	273.47	2.00	-2.14	22.90	Hold 25.65° Tangent
	7118.41	25.65	75.25	6771.89	410.23	1565.23	0.00	0.00	123.12	Begin 10.00° Build/Turn
	7966.63	91.50	150.00	7230.00	14.79	2045.93	10.00	75.56	653.80	Hold 91.50° Lateral
7	8766.63	91.50	150.00	7209.06	-677.79	2445.79	0.00	0.00	1438.96	Begin 1.50° Turn
8	10420.46	91.56	174.81	7164.27	-2241.37	2941.71	1.50	89.54	3078.77	Continue 1.50° Turn
9	11344.25	91.50	160.95	7139.52	-3142.04	3135.16	1.50	-90.04	3993.26	Hold 160.95° Az
10	23756.64	91.50	160.95	6814.60	-14870.64	7185.09	0.00	0.00	16401.40	Begin 1.50° Turn
11	24493.06	91.50	172.00	6795.26	-15585.28	7356.99	1.50	89.85	17133.00	Continue 1.50° Turn
12	25137.02	91.50	162.34	6778.36	-16212.20	7499.78	1.50	-89.87	17772.20	Hold 162.34° Az
13	25971.43	91.50	162.34	6756.50	-17007.00	7752.87	0.00	0.00	18606.08	PBHL - 25971.43' MD

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LP v7 - Abbey 6MH	7230.00	14.79	2045.93	319011.75	1772384.98	39.3737797	-80.1937493
PBHL v7 - Abbey 6MH	6756.50	-17007.00	7752.87	301989.97	1778091.92	39.3271664	-80.1731109

Project: Harrison County, WV (NAD83 - GRID)
Site: Abbey Pad
Well: Abbey 6MH
Wellbore: Wellbore #1
Design: Design #8

Abbey 6MH



Diversified Production, LLC

Harrison County, WV (NAD83 - GRID)

Abbey Pad

Abbey 6MH

Wellbore #1

Plan: Design #8



Standard Plan Report

28 January, 2025

Total Report Version 1.70

COMPASS 5000.16 Build 97



Company:	Diversified Production, LLC	Local Co-ordinate Reference:	Well Abbey 6MH
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 6MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #8	Database:	.Total Directional Production DB

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

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

Well	Abbey 6MH					
Well Position	+N/-S	0.00 usft	Northing:	318,996.96 usft	Latitude:	39.3736956
	+E/-W	0.00 usft	Easting:	1,770,339.05 usft	Longitude:	-80.2009860
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	996.00 usft
Grid Convergence:		-0.45 °				

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

Design	Design #8				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:		0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	160.95	

Survey Tool Program	Date	1/28/2025			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	650.00	Design #8 (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
650.00	25,971.20	Design #8 (Wellbore #1)	MWD+HRGM	OWSG MWD + HRGM	



Company:	Diversified Production, LLC	Local Co-ordinate Reference:	Well Abbey 6MH
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 6MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #8	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	
3,000.00	5.00	77.00	2,999.68	2.45	10.62	2.00	2.00	0.00	77.00	
4,032.67	25.65	75.25	3,990.25	70.21	273.47	2.00	2.00	-0.17	-2.14	
7,118.41	25.65	75.25	6,771.89	410.23	1,565.23	0.00	0.00	0.00	0.00	
7,966.63	91.50	150.00	7,230.00	14.79	2,045.93	10.00	7.76	8.81	75.56	LP v7 - Abbey 6MH
8,766.63	91.50	150.00	7,209.06	-677.79	2,445.79	0.00	0.00	0.00	0.00	
10,420.46	91.56	174.81	7,164.27	-2,241.37	2,941.71	1.50	0.00	1.50	89.54	
11,344.25	91.50	160.95	7,139.52	-3,142.04	3,135.16	1.50	-0.01	-1.50	-90.04	
23,756.64	91.50	160.95	6,814.60	-14,870.64	7,185.09	0.00	0.00	0.00	0.00	
24,493.06	91.50	172.00	6,795.26	-15,585.28	7,356.99	1.50	0.00	1.50	89.85	
25,137.02	91.50	162.34	6,778.36	-16,212.20	7,499.78	1.50	0.00	-1.50	-89.87	
25,971.43	91.50	162.34	6,756.50	-17,007.00	7,752.87	0.00	0.00	0.00	0.00	PBHL v7 - Abbey 6I

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	318,996.96	1,770,339.05	39.3736956	-80.2009860	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	318,996.96	1,770,339.05	39.3736956	-80.2009860	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	318,996.96	1,770,339.05	39.3736956	-80.2009860	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	318,996.96	1,770,339.05	39.3736956	-80.2009860	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	318,996.96	1,770,339.05	39.3736956	-80.2009860	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	318,996.96	1,770,339.05	39.3736956	-80.2009860	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	318,996.96	1,770,339.05	39.3736956	-80.2009860	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	318,996.96	1,770,339.05	39.3736956	-80.2009860	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	318,996.96	1,770,339.05	39.3736956	-80.2009860	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	318,996.96	1,770,339.05	39.3736956	-80.2009860	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	318,996.96	1,770,339.05	39.3736956	-80.2009860	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	318,996.96	1,770,339.05	39.3736956	-80.2009860	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	318,996.96	1,770,339.05	39.3736956	-80.2009860	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	318,996.96	1,770,339.05	39.3736956	-80.2009860	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	318,996.96	1,770,339.05	39.3736956	-80.2009860	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	318,996.96	1,770,339.05	39.3736956	-80.2009860	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	318,996.96	1,770,339.05	39.3736956	-80.2009860	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	318,996.96	1,770,339.05	39.3736956	-80.2009860	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	318,996.96	1,770,339.05	39.3736956	-80.2009860	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	318,996.96	1,770,339.05	39.3736956	-80.2009860	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	318,996.96	1,770,339.05	39.3736956	-80.2009860	0.00	0.00	0.00	0.00



Company:	Diversified Production, LLC	Local Co-ordinate Reference:	Well Abbey 6MH
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 6MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #8	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)
2,100.00	0.00	0.00	2,100.00	0.00	0.00	318,996.96	1,770,339.05	39.3736956	-80.2009860	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	318,996.96	1,770,339.05	39.3736956	-80.2009860	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	318,996.96	1,770,339.05	39.3736956	-80.2009860	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	318,996.96	1,770,339.05	39.3736956	-80.2009860	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	318,996.96	1,770,339.05	39.3736956	-80.2009860	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	318,996.96	1,770,339.05	39.3736956	-80.2009860	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	318,996.96	1,770,339.05	39.3736956	-80.2009860	0.00	0.00	0.00	0.00
2,750.00	0.00	0.00	2,750.00	0.00	0.00	318,996.96	1,770,339.05	39.3736956	-80.2009860	0.00	0.00	0.00	0.00
2,800.00	1.00	77.00	2,800.00	0.10	0.43	318,997.06	1,770,339.48	39.3736958	-80.2009845	0.05	2.00	2.00	0.00
2,900.00	3.00	77.00	2,899.93	0.88	3.83	318,997.85	1,770,342.88	39.3736981	-80.2009725	0.41	2.00	2.00	0.00
3,000.00	5.00	77.00	2,999.68	2.45	10.62	318,999.41	1,770,349.68	39.3737025	-80.2009485	1.15	2.00	2.00	0.00
3,100.00	7.00	76.39	3,099.13	4.87	20.79	319,001.83	1,770,359.84	39.3737094	-80.2009126	2.19	2.00	2.00	-0.61
3,200.00	9.00	76.04	3,198.15	8.19	34.30	319,005.15	1,770,373.36	39.3737188	-80.2008649	3.46	2.00	2.00	-0.34
3,300.00	11.00	75.83	3,296.63	12.41	51.14	319,009.37	1,770,390.20	39.3737307	-80.2008054	4.96	2.00	2.00	-0.22
3,400.00	13.00	75.67	3,394.44	17.53	71.29	319,014.49	1,770,410.34	39.3737452	-80.2007343	6.70	2.00	2.00	-0.15
3,500.00	15.00	75.56	3,491.46	23.54	94.72	319,020.50	1,770,433.77	39.3737622	-80.2006516	8.67	2.00	2.00	-0.11
3,600.00	17.00	75.48	3,587.59	30.43	121.40	319,027.39	1,770,460.45	39.3737817	-80.2005574	10.86	2.00	2.00	-0.09
3,700.00	19.00	75.41	3,682.69	38.20	151.30	319,035.16	1,770,490.36	39.3738037	-80.2004519	13.28	2.00	2.00	-0.07
3,800.00	21.00	75.35	3,776.66	46.83	184.39	319,043.79	1,770,523.44	39.3738281	-80.2003350	15.92	2.00	2.00	-0.06
3,900.00	23.00	75.30	3,869.37	56.32	220.62	319,053.28	1,770,559.68	39.3738549	-80.2002071	18.77	2.00	2.00	-0.05
4,000.00	25.00	75.26	3,960.72	66.65	259.96	319,063.61	1,770,599.01	39.3738841	-80.2000683	21.85	2.00	2.00	-0.04
4,032.67	25.65	75.25	3,990.25	70.21	273.47	319,067.17	1,770,612.52	39.3738942	-80.2000206	22.90	2.00	2.00	-0.04
4,100.00	25.65	75.25	4,050.95	77.63	301.66	319,074.59	1,770,640.71	39.3739151	-80.1999211	25.08	0.00	0.00	0.00
4,200.00	25.65	75.25	4,141.09	88.64	343.52	319,085.61	1,770,682.57	39.3739463	-80.1997733	28.33	0.00	0.00	0.00
4,300.00	25.65	75.25	4,231.24	99.66	385.38	319,096.63	1,770,724.43	39.3739774	-80.1996255	31.58	0.00	0.00	0.00
4,400.00	25.65	75.25	4,321.38	110.68	427.24	319,107.65	1,770,766.30	39.3740086	-80.1994778	34.83	0.00	0.00	0.00
4,500.00	25.65	75.25	4,411.53	121.70	469.11	319,118.66	1,770,808.16	39.3740397	-80.1993300	38.08	0.00	0.00	0.00
4,600.00	25.65	75.25	4,501.67	132.72	510.97	319,129.68	1,770,850.02	39.3740709	-80.1991822	41.32	0.00	0.00	0.00
4,700.00	25.65	75.25	4,591.82	143.74	552.83	319,140.70	1,770,891.88	39.3741020	-80.1990344	44.57	0.00	0.00	0.00
4,800.00	25.65	75.25	4,681.96	154.76	594.69	319,151.72	1,770,933.75	39.3741332	-80.1988867	47.82	0.00	0.00	0.00
4,900.00	25.65	75.25	4,772.11	165.78	636.55	319,162.74	1,770,975.61	39.3741643	-80.1987389	51.07	0.00	0.00	0.00
5,000.00	25.65	75.25	4,862.25	176.80	678.42	319,173.76	1,771,017.47	39.3741954	-80.1985911	54.31	0.00	0.00	0.00
5,100.00	25.65	75.25	4,952.40	187.82	720.28	319,184.78	1,771,059.33	39.3742266	-80.1984433	57.56	0.00	0.00	0.00
5,200.00	25.65	75.25	5,042.54	198.84	762.14	319,195.80	1,771,101.19	39.3742577	-80.1982955	60.81	0.00	0.00	0.00
5,300.00	25.65	75.25	5,132.69	209.86	804.00	319,206.82	1,771,143.06	39.3742889	-80.1981478	64.06	0.00	0.00	0.00
5,400.00	25.65	75.25	5,222.83	220.87	845.86	319,217.84	1,771,184.92	39.3743200	-80.1980000	67.31	0.00	0.00	0.00
5,500.00	25.65	75.25	5,312.98	231.89	887.73	319,228.86	1,771,226.78	39.3743512	-80.1978522	70.55	0.00	0.00	0.00
5,600.00	25.65	75.25	5,403.12	242.91	929.59	319,239.88	1,771,268.64	39.3743823	-80.1977044	73.80	0.00	0.00	0.00



Company:	Diversified Production, LLC	Local Co-ordinate Reference:	Well Abbey 6MH
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 6MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #8	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)
5,700.00	25.65	75.25	5,493.27	253.93	971.45	319,250.89	1,771,310.50	39.3744135	-80.1975567	77.05	0.00	0.00	0.00
5,800.00	25.65	75.25	5,583.41	264.95	1,013.31	319,261.91	1,771,352.37	39.3744446	-80.1974089	80.30	0.00	0.00	0.00
5,900.00	25.65	75.25	5,673.56	275.97	1,055.18	319,272.93	1,771,394.23	39.3744758	-80.1972611	83.55	0.00	0.00	0.00
6,000.00	25.65	75.25	5,763.70	286.99	1,097.04	319,283.95	1,771,436.09	39.3745069	-80.1971133	86.79	0.00	0.00	0.00
6,100.00	25.65	75.25	5,853.85	298.01	1,138.90	319,294.97	1,771,477.95	39.3745380	-80.1969655	90.04	0.00	0.00	0.00
6,200.00	25.65	75.25	5,944.00	309.03	1,180.76	319,305.99	1,771,519.82	39.3745692	-80.1968178	93.29	0.00	0.00	0.00
6,300.00	25.65	75.25	6,034.14	320.05	1,222.62	319,317.01	1,771,561.68	39.3746003	-80.1966700	96.54	0.00	0.00	0.00
6,400.00	25.65	75.25	6,124.29	331.07	1,264.49	319,328.03	1,771,603.54	39.3746315	-80.1965222	99.78	0.00	0.00	0.00
6,500.00	25.65	75.25	6,214.43	342.09	1,306.35	319,339.05	1,771,645.40	39.3746626	-80.1963744	103.03	0.00	0.00	0.00
6,600.00	25.65	75.25	6,304.58	353.10	1,348.21	319,350.07	1,771,687.26	39.3746938	-80.1962266	106.28	0.00	0.00	0.00
6,700.00	25.65	75.25	6,394.72	364.12	1,390.07	319,361.09	1,771,729.13	39.3747249	-80.1960789	109.53	0.00	0.00	0.00
6,800.00	25.65	75.25	6,484.87	375.14	1,431.93	319,372.11	1,771,770.99	39.3747561	-80.1959311	112.78	0.00	0.00	0.00
6,900.00	25.65	75.25	6,575.01	386.16	1,473.80	319,383.12	1,771,812.85	39.3747872	-80.1957833	116.02	0.00	0.00	0.00
7,000.00	25.65	75.25	6,665.16	397.18	1,515.66	319,394.14	1,771,854.71	39.3748183	-80.1956355	119.27	0.00	0.00	0.00
7,100.00	25.65	75.25	6,755.30	408.20	1,557.52	319,405.16	1,771,896.57	39.3748495	-80.1954877	122.52	0.00	0.00	0.00
7,118.41	25.65	75.25	6,771.89	410.23	1,565.23	319,407.19	1,771,904.28	39.3748552	-80.1954605	123.12	0.00	0.00	0.00
7,150.00	26.60	82.10	6,800.27	412.94	1,578.85	319,409.91	1,771,917.90	39.3748630	-80.1954124	125.00	10.00	3.01	21.67
7,200.00	28.72	91.87	6,844.57	414.09	1,601.96	319,411.05	1,771,941.01	39.3748666	-80.1953307	131.46	10.00	4.23	19.55
7,250.00	31.44	100.26	6,887.85	411.37	1,626.81	319,408.34	1,771,965.86	39.3748597	-80.1952427	142.14	10.00	5.44	16.77
7,300.00	34.62	107.34	6,929.78	404.81	1,653.22	319,401.78	1,771,992.27	39.3748422	-80.1951491	156.96	10.00	6.37	14.16
7,350.00	38.15	113.31	6,970.04	394.46	1,680.98	319,391.42	1,772,020.03	39.3748144	-80.1950506	175.80	10.00	7.06	11.95
7,400.00	41.94	118.39	7,008.32	380.40	1,709.88	319,377.36	1,772,048.93	39.3747764	-80.1949480	198.53	10.00	7.58	10.15
7,450.00	45.93	122.75	7,044.33	362.72	1,739.71	319,359.69	1,772,078.76	39.3747285	-80.1948420	224.97	10.00	7.96	8.73
7,500.00	50.05	126.56	7,077.79	341.58	1,770.23	319,338.54	1,772,109.28	39.3746711	-80.1947335	254.92	10.00	8.25	7.61
7,550.00	54.29	129.92	7,108.45	317.12	1,801.21	319,314.08	1,772,140.26	39.3746046	-80.1946232	288.15	10.00	8.47	6.73
7,600.00	58.61	132.94	7,136.09	289.54	1,832.42	319,286.50	1,772,171.47	39.3745295	-80.1945121	324.41	10.00	8.64	6.04
7,650.00	62.99	135.70	7,160.48	259.04	1,863.62	319,256.00	1,772,202.67	39.3744465	-80.1944009	363.42	10.00	8.77	5.51
7,700.00	67.43	138.24	7,181.44	225.86	1,894.57	319,222.82	1,772,233.62	39.3743560	-80.1942905	404.89	10.00	8.87	5.09
7,750.00	71.90	140.63	7,198.81	190.24	1,925.04	319,187.21	1,772,264.09	39.3742589	-80.1941817	448.49	10.00	8.94	4.77
7,800.00	76.40	142.89	7,212.47	152.47	1,954.79	319,149.43	1,772,293.84	39.3741558	-80.1940755	493.91	10.00	9.00	4.53
7,850.00	80.92	145.08	7,222.30	112.83	1,983.60	319,109.79	1,772,322.65	39.3740476	-80.1939725	540.79	10.00	9.04	4.36
7,900.00	85.45	147.20	7,228.23	71.61	2,011.25	319,068.57	1,772,350.30	39.3739350	-80.1938735	588.77	10.00	9.06	4.25
7,950.00	89.99	149.30	7,230.22	29.14	2,037.53	319,026.10	1,772,376.58	39.3738190	-80.1937794	637.49	10.00	9.08	4.20
7,966.63	91.50	150.00	7,230.00	14.79	2,045.93	319,011.75	1,772,384.98	39.3737798	-80.1937493	653.80	10.00	9.08	4.19
8,000.00	91.50	150.00	7,229.13	-14.10	2,062.61	318,982.86	1,772,401.66	39.3737008	-80.1936895	686.55	0.00	0.00	0.00
8,100.00	91.50	150.00	7,226.51	-100.67	2,112.59	318,896.29	1,772,451.65	39.3734642	-80.1935103	784.69	0.00	0.00	0.00
8,200.00	91.50	150.00	7,223.89	-187.25	2,162.58	318,809.72	1,772,501.63	39.3732276	-80.1933312	882.84	0.00	0.00	0.00



Company:	Diversified Production, LLC	Local Co-ordinate Reference:	Well Abbey 6MH
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 6MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #8	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)
8,300.00	91.50	150.00	7,221.27	-273.82	2,212.56	318,723.14	1,772,551.61	39.3729909	-80.1931520	980.99	0.00	0.00	0.00
8,400.00	91.50	150.00	7,218.66	-360.39	2,262.54	318,636.57	1,772,601.60	39.3727543	-80.1929728	1,079.13	0.00	0.00	0.00
8,500.00	91.50	150.00	7,216.04	-446.96	2,312.52	318,550.00	1,772,651.58	39.3725177	-80.1927937	1,177.28	0.00	0.00	0.00
8,600.00	91.50	150.00	7,213.42	-533.54	2,362.51	318,463.43	1,772,701.56	39.3722811	-80.1926145	1,275.42	0.00	0.00	0.00
8,700.00	91.50	150.00	7,210.80	-620.11	2,412.49	318,376.85	1,772,751.54	39.3720444	-80.1924354	1,373.57	0.00	0.00	0.00
8,766.63	91.50	150.00	7,209.06	-677.79	2,445.79	318,319.17	1,772,784.85	39.3718868	-80.1923160	1,438.96	0.00	0.00	0.00
8,800.00	91.50	150.50	7,208.18	-706.75	2,462.35	318,290.21	1,772,801.40	39.3718076	-80.1922566	1,471.74	1.50	0.01	1.50
8,900.00	91.52	152.00	7,205.55	-794.39	2,510.43	318,202.57	1,772,849.48	39.3715680	-80.1920842	1,570.28	1.50	0.01	1.50
9,000.00	91.53	153.50	7,202.90	-883.26	2,556.20	318,113.70	1,772,895.25	39.3713250	-80.1919199	1,669.22	1.50	0.01	1.50
9,100.00	91.53	155.00	7,200.23	-973.30	2,599.62	318,023.66	1,772,938.68	39.3710787	-80.1917638	1,768.49	1.50	0.01	1.50
9,200.00	91.54	156.50	7,197.54	-1,064.44	2,640.68	317,932.52	1,772,979.73	39.3708294	-80.1916161	1,868.04	1.50	0.01	1.50
9,300.00	91.55	158.00	7,194.84	-1,156.62	2,679.34	317,840.34	1,773,018.39	39.3705771	-80.1914769	1,967.80	1.50	0.01	1.50
9,400.00	91.56	159.50	7,192.13	-1,249.79	2,715.57	317,747.18	1,773,054.62	39.3703221	-80.1913462	2,067.68	1.50	0.01	1.50
9,500.00	91.56	161.00	7,189.41	-1,343.87	2,749.34	317,653.10	1,773,088.40	39.3700645	-80.1912241	2,167.64	1.50	0.00	1.50
9,600.00	91.56	162.50	7,186.69	-1,438.80	2,780.65	317,558.16	1,773,119.70	39.3698046	-80.1911108	2,267.59	1.50	0.00	1.50
9,700.00	91.57	164.00	7,183.95	-1,534.52	2,809.46	317,462.45	1,773,148.51	39.3695424	-80.1910063	2,367.47	1.50	0.00	1.50
9,800.00	91.57	165.50	7,181.22	-1,630.96	2,835.75	317,366.01	1,773,174.80	39.3692782	-80.1909107	2,467.21	1.50	0.00	1.50
9,900.00	91.57	167.00	7,178.48	-1,728.05	2,859.51	317,268.91	1,773,198.56	39.3690121	-80.1908240	2,566.74	1.50	0.00	1.50
10,000.00	91.57	168.50	7,175.74	-1,825.73	2,880.72	317,171.23	1,773,219.77	39.3687444	-80.1907463	2,665.99	1.50	0.00	1.50
10,100.00	91.57	170.00	7,173.00	-1,923.94	2,899.37	317,073.02	1,773,238.42	39.3684751	-80.1906777	2,764.91	1.50	0.00	1.50
10,200.00	91.56	171.50	7,170.27	-2,022.60	2,915.44	316,974.36	1,773,254.49	39.3682046	-80.1906182	2,863.41	1.50	0.00	1.50
10,300.00	91.56	173.00	7,167.54	-2,121.65	2,928.92	316,875.32	1,773,267.97	39.3679330	-80.1905678	2,961.43	1.50	0.00	1.50
10,400.00	91.56	174.50	7,164.82	-2,221.01	2,939.80	316,775.95	1,773,278.85	39.3676604	-80.1905266	3,058.91	1.50	0.00	1.50
10,420.46	91.56	174.81	7,164.27	-2,241.37	2,941.71	316,755.59	1,773,280.76	39.3676045	-80.1905193	3,078.77	1.50	-0.01	1.50
10,500.00	91.55	173.61	7,162.11	-2,320.48	2,949.73	316,676.48	1,773,288.78	39.3673875	-80.1904888	3,156.17	1.50	0.00	-1.50
10,600.00	91.55	172.11	7,159.40	-2,419.67	2,962.15	316,577.30	1,773,301.20	39.3671155	-80.1904422	3,253.98	1.50	0.00	-1.50
10,700.00	91.55	170.61	7,156.69	-2,518.49	2,977.16	316,478.47	1,773,316.21	39.3668445	-80.1903864	3,352.29	1.50	0.00	-1.50
10,800.00	91.54	169.11	7,154.00	-2,616.89	2,994.75	316,380.07	1,773,333.81	39.3665747	-80.1903215	3,451.04	1.50	0.00	-1.50
10,900.00	91.54	167.61	7,151.31	-2,714.80	3,014.92	316,282.16	1,773,353.97	39.3663063	-80.1902475	3,550.17	1.50	-0.01	-1.50
11,000.00	91.53	166.11	7,148.63	-2,812.14	3,037.64	316,184.82	1,773,376.69	39.3660395	-80.1901645	3,649.60	1.50	-0.01	-1.50
11,100.00	91.52	164.61	7,145.96	-2,908.86	3,062.89	316,088.10	1,773,401.95	39.3657745	-80.1900725	3,749.26	1.50	-0.01	-1.50
11,200.00	91.51	163.11	7,143.31	-3,004.89	3,090.68	315,992.08	1,773,429.73	39.3655115	-80.1899717	3,849.10	1.50	-0.01	-1.50
11,300.00	91.50	161.61	7,140.68	-3,100.15	3,120.96	315,896.81	1,773,460.02	39.3652506	-80.1898620	3,949.03	1.50	-0.01	-1.50
11,344.25	91.50	160.95	7,139.52	-3,142.04	3,135.16	315,854.92	1,773,474.21	39.3651359	-80.1898106	3,993.26	1.50	-0.01	-1.50
11,400.00	91.50	160.95	7,138.06	-3,194.72	3,153.35	315,802.24	1,773,492.40	39.3649916	-80.1897448	4,048.99	0.00	0.00	0.00
11,500.00	91.50	160.95	7,135.44	-3,289.21	3,185.98	315,707.75	1,773,525.03	39.3647329	-80.1896269	4,148.96	0.00	0.00	0.00
11,600.00	91.50	160.95	7,132.82	-3,383.71	3,218.61	315,613.26	1,773,557.66	39.3644742	-80.1895089	4,248.92	0.00	0.00	0.00
11,700.00	91.50	160.95	7,130.21	-3,478.20	3,251.23	315,518.77	1,773,590.29	39.3642154	-80.1893909	4,348.89	0.00	0.00	0.00



Company:	Diversified Production, LLC	Local Co-ordinate Reference:	Well Abbey 6MH
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 6MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #8	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)
11,800.00	91.50	160.95	7,127.59	-3,572.69	3,283.86	315,424.28	1,773,622.91	39.3639567	-80.1892730	4,448.86	0.00	0.00	0.00
11,900.00	91.50	160.95	7,124.97	-3,667.18	3,316.49	315,329.78	1,773,655.54	39.3636980	-80.1891550	4,548.82	0.00	0.00	0.00
12,000.00	91.50	160.95	7,122.35	-3,761.67	3,349.12	315,235.29	1,773,688.17	39.3634392	-80.1890371	4,648.79	0.00	0.00	0.00
12,100.00	91.50	160.95	7,119.74	-3,856.16	3,381.75	315,140.80	1,773,720.80	39.3631805	-80.1889191	4,748.75	0.00	0.00	0.00
12,200.00	91.50	160.95	7,117.12	-3,950.65	3,414.37	315,046.31	1,773,753.43	39.3629218	-80.1888011	4,848.72	0.00	0.00	0.00
12,300.00	91.50	160.95	7,114.50	-4,045.14	3,447.00	314,951.82	1,773,786.06	39.3626630	-80.1886832	4,948.68	0.00	0.00	0.00
12,400.00	91.50	160.95	7,111.88	-4,139.63	3,479.63	314,857.33	1,773,818.68	39.3624043	-80.1885652	5,048.65	0.00	0.00	0.00
12,500.00	91.50	160.95	7,109.26	-4,234.12	3,512.26	314,762.84	1,773,851.31	39.3621456	-80.1884473	5,148.62	0.00	0.00	0.00
12,600.00	91.50	160.95	7,106.65	-4,328.62	3,544.89	314,668.35	1,773,883.94	39.3618868	-80.1883293	5,248.58	0.00	0.00	0.00
12,700.00	91.50	160.95	7,104.03	-4,423.11	3,577.51	314,573.86	1,773,916.57	39.3616281	-80.1882113	5,348.55	0.00	0.00	0.00
12,800.00	91.50	160.95	7,101.41	-4,517.60	3,610.14	314,479.37	1,773,949.20	39.3613694	-80.1880934	5,448.51	0.00	0.00	0.00
12,900.00	91.50	160.95	7,098.79	-4,612.09	3,642.77	314,384.87	1,773,981.82	39.3611106	-80.1879754	5,548.48	0.00	0.00	0.00
13,000.00	91.50	160.95	7,096.18	-4,706.58	3,675.40	314,290.38	1,774,014.45	39.3608519	-80.1878575	5,648.44	0.00	0.00	0.00
13,100.00	91.50	160.95	7,093.56	-4,801.07	3,708.03	314,195.89	1,774,047.08	39.3605931	-80.1877395	5,748.41	0.00	0.00	0.00
13,200.00	91.50	160.95	7,090.94	-4,895.56	3,740.66	314,101.40	1,774,079.71	39.3603344	-80.1876216	5,848.38	0.00	0.00	0.00
13,300.00	91.50	160.95	7,088.32	-4,990.05	3,773.28	314,006.91	1,774,112.34	39.3600757	-80.1875036	5,948.34	0.00	0.00	0.00
13,400.00	91.50	160.95	7,085.71	-5,084.54	3,805.91	313,912.42	1,774,144.96	39.3598169	-80.1873857	6,048.31	0.00	0.00	0.00
13,500.00	91.50	160.95	7,083.09	-5,179.03	3,838.54	313,817.93	1,774,177.59	39.3595582	-80.1872677	6,148.27	0.00	0.00	0.00
13,600.00	91.50	160.95	7,080.47	-5,273.53	3,871.17	313,723.44	1,774,210.22	39.3592995	-80.1871498	6,248.24	0.00	0.00	0.00
13,700.00	91.50	160.95	7,077.85	-5,368.02	3,903.80	313,628.95	1,774,242.85	39.3590407	-80.1870318	6,348.20	0.00	0.00	0.00
13,800.00	91.50	160.95	7,075.23	-5,462.51	3,936.42	313,534.46	1,774,275.48	39.3587820	-80.1869139	6,448.17	0.00	0.00	0.00
13,900.00	91.50	160.95	7,072.62	-5,557.00	3,969.05	313,439.96	1,774,308.11	39.3585233	-80.1867959	6,548.14	0.00	0.00	0.00
14,000.00	91.50	160.95	7,070.00	-5,651.49	4,001.68	313,345.47	1,774,340.73	39.3582645	-80.1866780	6,648.10	0.00	0.00	0.00
14,100.00	91.50	160.95	7,067.38	-5,745.98	4,034.31	313,250.98	1,774,373.36	39.3580058	-80.1865600	6,748.07	0.00	0.00	0.00
14,200.00	91.50	160.95	7,064.76	-5,840.47	4,066.94	313,156.49	1,774,405.99	39.3577471	-80.1864421	6,848.03	0.00	0.00	0.00
14,300.00	91.50	160.95	7,062.15	-5,934.96	4,099.56	313,062.00	1,774,438.62	39.3574883	-80.1863242	6,948.00	0.00	0.00	0.00
14,400.00	91.50	160.95	7,059.53	-6,029.45	4,132.19	312,967.51	1,774,471.25	39.3572296	-80.1862062	7,047.96	0.00	0.00	0.00
14,500.00	91.50	160.95	7,056.91	-6,123.94	4,164.82	312,873.02	1,774,503.87	39.3569708	-80.1860883	7,147.93	0.00	0.00	0.00
14,600.00	91.50	160.95	7,054.29	-6,218.44	4,197.45	312,778.53	1,774,536.50	39.3567121	-80.1859703	7,247.90	0.00	0.00	0.00
14,700.00	91.50	160.95	7,051.68	-6,312.93	4,230.08	312,684.04	1,774,569.13	39.3564534	-80.1858524	7,347.86	0.00	0.00	0.00
14,800.00	91.50	160.95	7,049.06	-6,407.42	4,262.71	312,589.54	1,774,601.76	39.3561946	-80.1857345	7,447.83	0.00	0.00	0.00
14,900.00	91.50	160.95	7,046.44	-6,501.91	4,295.33	312,495.05	1,774,634.39	39.3559359	-80.1856165	7,547.79	0.00	0.00	0.00
15,000.00	91.50	160.95	7,043.82	-6,596.40	4,327.96	312,400.56	1,774,667.01	39.3556772	-80.1854986	7,647.76	0.00	0.00	0.00
15,100.00	91.50	160.95	7,041.20	-6,690.89	4,360.59	312,306.07	1,774,699.64	39.3554184	-80.1853806	7,747.72	0.00	0.00	0.00
15,200.00	91.50	160.95	7,038.59	-6,785.38	4,393.22	312,211.58	1,774,732.27	39.3551597	-80.1852627	7,847.69	0.00	0.00	0.00
15,300.00	91.50	160.95	7,035.97	-6,879.87	4,425.85	312,117.09	1,774,764.90	39.3549010	-80.1851448	7,947.66	0.00	0.00	0.00
15,400.00	91.50	160.95	7,033.35	-6,974.36	4,458.47	312,022.60	1,774,797.53	39.3546422	-80.1850268	8,047.62	0.00	0.00	0.00



Company:	Diversified Production, LLC	Local Co-ordinate Reference:	Well Abbey 6MH
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 6MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #8	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)
15,500.00	91.50	160.95	7,030.73	-7,068.85	4,491.10	311,928.11	1,774,830.16	39.3543835	-80.1849089	8,147.59	0.00	0.00	0.00
15,600.00	91.50	160.95	7,028.12	-7,163.35	4,523.73	311,833.62	1,774,862.78	39.3541247	-80.1847910	8,247.55	0.00	0.00	0.00
15,700.00	91.50	160.95	7,025.50	-7,257.84	4,556.36	311,739.13	1,774,895.41	39.3538660	-80.1846730	8,347.52	0.00	0.00	0.00
15,800.00	91.50	160.95	7,022.88	-7,352.33	4,588.99	311,644.63	1,774,928.04	39.3536073	-80.1845551	8,447.48	0.00	0.00	0.00
15,900.00	91.50	160.95	7,020.26	-7,446.82	4,621.61	311,550.14	1,774,960.67	39.3533485	-80.1844372	8,547.45	0.00	0.00	0.00
16,000.00	91.50	160.95	7,017.65	-7,541.31	4,654.24	311,455.65	1,774,993.30	39.3530898	-80.1843193	8,647.42	0.00	0.00	0.00
16,100.00	91.50	160.95	7,015.03	-7,635.80	4,686.87	311,361.16	1,775,025.92	39.3528311	-80.1842013	8,747.38	0.00	0.00	0.00
16,200.00	91.50	160.95	7,012.41	-7,730.29	4,719.50	311,266.67	1,775,058.55	39.3525723	-80.1840834	8,847.35	0.00	0.00	0.00
16,300.00	91.50	160.95	7,009.79	-7,824.78	4,752.13	311,172.18	1,775,091.18	39.3523136	-80.1839655	8,947.31	0.00	0.00	0.00
16,400.00	91.50	160.95	7,007.17	-7,919.27	4,784.76	311,077.69	1,775,123.81	39.3520548	-80.1838476	9,047.28	0.00	0.00	0.00
16,500.00	91.50	160.95	7,004.56	-8,013.77	4,817.38	310,983.20	1,775,156.44	39.3517961	-80.1837296	9,147.25	0.00	0.00	0.00
16,600.00	91.50	160.95	7,001.94	-8,108.26	4,850.01	310,888.71	1,775,189.06	39.3515374	-80.1836117	9,247.21	0.00	0.00	0.00
16,700.00	91.50	160.95	6,999.32	-8,202.75	4,882.64	310,794.22	1,775,221.69	39.3512786	-80.1834938	9,347.18	0.00	0.00	0.00
16,800.00	91.50	160.95	6,996.70	-8,297.24	4,915.27	310,699.72	1,775,254.32	39.3510199	-80.1833759	9,447.14	0.00	0.00	0.00
16,900.00	91.50	160.95	6,994.09	-8,391.73	4,947.90	310,605.23	1,775,286.95	39.3507611	-80.1832579	9,547.11	0.00	0.00	0.00
17,000.00	91.50	160.95	6,991.47	-8,486.22	4,980.52	310,510.74	1,775,319.58	39.3505024	-80.1831400	9,647.07	0.00	0.00	0.00
17,100.00	91.50	160.95	6,988.85	-8,580.71	5,013.15	310,416.25	1,775,352.21	39.3502437	-80.1830221	9,747.04	0.00	0.00	0.00
17,200.00	91.50	160.95	6,986.23	-8,675.20	5,045.78	310,321.76	1,775,384.83	39.3499849	-80.1829042	9,847.01	0.00	0.00	0.00
17,300.00	91.50	160.95	6,983.62	-8,769.69	5,078.41	310,227.27	1,775,417.46	39.3497262	-80.1827863	9,946.97	0.00	0.00	0.00
17,400.00	91.50	160.95	6,981.00	-8,864.18	5,111.04	310,132.78	1,775,450.09	39.3494674	-80.1826684	10,046.94	0.00	0.00	0.00
17,500.00	91.50	160.95	6,978.38	-8,958.68	5,143.66	310,038.29	1,775,482.72	39.3492087	-80.1825504	10,146.90	0.00	0.00	0.00
17,600.00	91.50	160.95	6,975.76	-9,053.17	5,176.29	309,943.80	1,775,515.35	39.3489500	-80.1824325	10,246.87	0.00	0.00	0.00
17,700.00	91.50	160.95	6,973.14	-9,147.66	5,208.92	309,849.31	1,775,547.97	39.3486912	-80.1823146	10,346.83	0.00	0.00	0.00
17,800.00	91.50	160.95	6,970.53	-9,242.15	5,241.55	309,754.81	1,775,580.60	39.3484325	-80.1821967	10,446.80	0.00	0.00	0.00
17,900.00	91.50	160.95	6,967.91	-9,336.64	5,274.18	309,660.32	1,775,613.23	39.3481737	-80.1820788	10,546.77	0.00	0.00	0.00
18,000.00	91.50	160.95	6,965.29	-9,431.13	5,306.81	309,565.83	1,775,645.86	39.3479150	-80.1819609	10,646.73	0.00	0.00	0.00
18,100.00	91.50	160.95	6,962.67	-9,525.62	5,339.43	309,471.34	1,775,678.49	39.3476563	-80.1818430	10,746.70	0.00	0.00	0.00
18,200.00	91.50	160.95	6,960.06	-9,620.11	5,372.06	309,376.85	1,775,711.11	39.3473975	-80.1817251	10,846.66	0.00	0.00	0.00
18,300.00	91.50	160.95	6,957.44	-9,714.60	5,404.69	309,282.36	1,775,743.74	39.3471388	-80.1816072	10,946.63	0.00	0.00	0.00
18,400.00	91.50	160.95	6,954.82	-9,809.09	5,437.32	309,187.87	1,775,776.37	39.3468800	-80.1814893	11,046.59	0.00	0.00	0.00
18,500.00	91.50	160.95	6,952.20	-9,903.59	5,469.95	309,093.38	1,775,809.00	39.3466213	-80.1813713	11,146.56	0.00	0.00	0.00
18,600.00	91.50	160.95	6,949.59	-9,998.08	5,502.57	308,998.89	1,775,841.63	39.3463625	-80.1812534	11,246.53	0.00	0.00	0.00
18,700.00	91.50	160.95	6,946.97	-10,092.57	5,535.20	308,904.40	1,775,874.26	39.3461038	-80.1811355	11,346.49	0.00	0.00	0.00
18,800.00	91.50	160.95	6,944.35	-10,187.06	5,567.83	308,809.90	1,775,906.88	39.3458451	-80.1810176	11,446.46	0.00	0.00	0.00
18,900.00	91.50	160.95	6,941.73	-10,281.55	5,600.46	308,715.41	1,775,939.51	39.3455863	-80.1808997	11,546.42	0.00	0.00	0.00
19,000.00	91.50	160.95	6,939.11	-10,376.04	5,633.09	308,620.92	1,775,972.14	39.3453276	-80.1807818	11,646.39	0.00	0.00	0.00
19,100.00	91.50	160.95	6,936.50	-10,470.53	5,665.71	308,526.43	1,776,004.77	39.3450688	-80.1806639	11,746.35	0.00	0.00	0.00
19,200.00	91.50	160.95	6,933.88	-10,565.02	5,698.34	308,431.94	1,776,037.40	39.3448101	-80.1805460	11,846.32	0.00	0.00	0.00



Company:	Diversified Production, LLC	Local Co-ordinate Reference:	Well Abbey 6MH
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 6MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #8	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)
19,300.00	91.50	160.95	6,931.26	-10,659.51	5,730.97	308,337.45	1,776,070.02	39.3445514	-80.1804281	11,946.29	0.00	0.00	0.00
19,400.00	91.50	160.95	6,928.64	-10,754.00	5,763.60	308,242.96	1,776,102.65	39.3442926	-80.1803102	12,046.25	0.00	0.00	0.00
19,500.00	91.50	160.95	6,926.03	-10,848.50	5,796.23	308,148.47	1,776,135.28	39.3440339	-80.1801923	12,146.22	0.00	0.00	0.00
19,600.00	91.50	160.95	6,923.41	-10,942.99	5,828.86	308,053.98	1,776,167.91	39.3437751	-80.1800744	12,246.18	0.00	0.00	0.00
19,700.00	91.50	160.95	6,920.79	-11,037.48	5,861.48	307,959.48	1,776,200.54	39.3435164	-80.1799565	12,346.15	0.00	0.00	0.00
19,800.00	91.50	160.95	6,918.17	-11,131.97	5,894.11	307,864.99	1,776,233.16	39.3432576	-80.1798387	12,446.11	0.00	0.00	0.00
19,900.00	91.50	160.95	6,915.56	-11,226.46	5,926.74	307,770.50	1,776,265.79	39.3429989	-80.1797208	12,546.08	0.00	0.00	0.00
20,000.00	91.50	160.95	6,912.94	-11,320.95	5,959.37	307,676.01	1,776,298.42	39.3427402	-80.1796029	12,646.05	0.00	0.00	0.00
20,100.00	91.50	160.95	6,910.32	-11,415.44	5,992.00	307,581.52	1,776,331.05	39.3424814	-80.1794850	12,746.01	0.00	0.00	0.00
20,200.00	91.50	160.95	6,907.70	-11,509.93	6,024.62	307,487.03	1,776,363.68	39.3422227	-80.1793671	12,845.98	0.00	0.00	0.00
20,300.00	91.50	160.95	6,905.08	-11,604.42	6,057.25	307,392.54	1,776,396.31	39.3419639	-80.1792492	12,945.94	0.00	0.00	0.00
20,400.00	91.50	160.95	6,902.47	-11,698.92	6,089.88	307,298.05	1,776,428.93	39.3417052	-80.1791313	13,045.91	0.00	0.00	0.00
20,500.00	91.50	160.95	6,899.85	-11,793.41	6,122.51	307,203.56	1,776,461.56	39.3414464	-80.1790134	13,145.87	0.00	0.00	0.00
20,600.00	91.50	160.95	6,897.23	-11,887.90	6,155.14	307,109.07	1,776,494.19	39.3411877	-80.1788955	13,245.84	0.00	0.00	0.00
20,700.00	91.50	160.95	6,894.61	-11,982.39	6,187.77	307,014.57	1,776,526.82	39.3409289	-80.1787776	13,345.81	0.00	0.00	0.00
20,800.00	91.50	160.95	6,892.00	-12,076.88	6,220.39	306,920.08	1,776,559.45	39.3406702	-80.1786598	13,445.77	0.00	0.00	0.00
20,900.00	91.50	160.95	6,889.38	-12,171.37	6,253.02	306,825.59	1,776,592.07	39.3404115	-80.1785419	13,545.74	0.00	0.00	0.00
21,000.00	91.50	160.95	6,886.76	-12,265.86	6,285.65	306,731.10	1,776,624.70	39.3401527	-80.1784240	13,645.70	0.00	0.00	0.00
21,100.00	91.50	160.95	6,884.14	-12,360.35	6,318.28	306,636.61	1,776,657.33	39.3398940	-80.1783061	13,745.67	0.00	0.00	0.00
21,200.00	91.50	160.95	6,881.53	-12,454.84	6,350.91	306,542.12	1,776,689.96	39.3396352	-80.1781882	13,845.63	0.00	0.00	0.00
21,300.00	91.50	160.95	6,878.91	-12,549.33	6,383.53	306,447.63	1,776,722.59	39.3393765	-80.1780703	13,945.60	0.00	0.00	0.00
21,400.00	91.50	160.95	6,876.29	-12,643.83	6,416.16	306,353.14	1,776,755.21	39.3391177	-80.1779525	14,045.57	0.00	0.00	0.00
21,500.00	91.50	160.95	6,873.67	-12,738.32	6,448.79	306,258.65	1,776,787.84	39.3388590	-80.1778346	14,145.53	0.00	0.00	0.00
21,600.00	91.50	160.95	6,871.05	-12,832.81	6,481.42	306,164.16	1,776,820.47	39.3386002	-80.1777167	14,245.50	0.00	0.00	0.00
21,700.00	91.50	160.95	6,868.44	-12,927.30	6,514.05	306,069.66	1,776,853.10	39.3383415	-80.1775988	14,345.46	0.00	0.00	0.00
21,800.00	91.50	160.95	6,865.82	-13,021.79	6,546.67	305,975.17	1,776,885.73	39.3380828	-80.1774809	14,445.43	0.00	0.00	0.00
21,900.00	91.50	160.95	6,863.20	-13,116.28	6,579.30	305,880.68	1,776,918.36	39.3378240	-80.1773631	14,545.39	0.00	0.00	0.00
22,000.00	91.50	160.95	6,860.58	-13,210.77	6,611.93	305,786.19	1,776,950.98	39.3375653	-80.1772452	14,645.36	0.00	0.00	0.00
22,100.00	91.50	160.95	6,857.97	-13,305.26	6,644.56	305,691.70	1,776,983.61	39.3373065	-80.1771273	14,745.33	0.00	0.00	0.00
22,200.00	91.50	160.95	6,855.35	-13,399.75	6,677.19	305,597.21	1,777,016.24	39.3370478	-80.1770094	14,845.29	0.00	0.00	0.00
22,300.00	91.50	160.95	6,852.73	-13,494.24	6,709.82	305,502.72	1,777,048.87	39.3367890	-80.1768916	14,945.26	0.00	0.00	0.00
22,400.00	91.50	160.95	6,850.11	-13,588.74	6,742.44	305,408.23	1,777,081.50	39.3365303	-80.1767737	15,045.22	0.00	0.00	0.00
22,500.00	91.50	160.95	6,847.50	-13,683.23	6,775.07	305,313.74	1,777,114.12	39.3362715	-80.1766558	15,145.19	0.00	0.00	0.00
22,600.00	91.50	160.95	6,844.88	-13,777.72	6,807.70	305,219.25	1,777,146.75	39.3360128	-80.1765380	15,245.15	0.00	0.00	0.00
22,700.00	91.50	160.95	6,842.26	-13,872.21	6,840.33	305,124.75	1,777,179.38	39.3357540	-80.1764201	15,345.12	0.00	0.00	0.00
22,800.00	91.50	160.95	6,839.64	-13,966.70	6,872.96	305,030.26	1,777,212.01	39.3354953	-80.1763022	15,445.09	0.00	0.00	0.00
22,900.00	91.50	160.95	6,837.02	-14,061.19	6,905.58	304,935.77	1,777,244.64	39.3352365	-80.1761844	15,545.05	0.00	0.00	0.00



Company:	Diversified Production, LLC	Local Co-ordinate Reference:	Well Abbey 6MH
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 6MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #8	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)
23,000.00	91.50	160.95	6,834.41	-14,155.68	6,938.21	304,841.28	1,777,277.27	39.3349778	-80.1760665	15,645.02	0.00	0.00	0.00
23,100.00	91.50	160.95	6,831.79	-14,250.17	6,970.84	304,746.79	1,777,309.89	39.3347190	-80.1759486	15,744.98	0.00	0.00	0.00
23,200.00	91.50	160.95	6,829.17	-14,344.66	7,003.47	304,652.30	1,777,342.52	39.3344603	-80.1758308	15,844.95	0.00	0.00	0.00
23,300.00	91.50	160.95	6,826.55	-14,439.15	7,036.10	304,557.81	1,777,375.15	39.3342016	-80.1757129	15,944.92	0.00	0.00	0.00
23,400.00	91.50	160.95	6,823.94	-14,533.65	7,068.72	304,463.32	1,777,407.78	39.3339428	-80.1755950	16,044.88	0.00	0.00	0.00
23,500.00	91.50	160.95	6,821.32	-14,628.14	7,101.35	304,368.83	1,777,440.41	39.3336841	-80.1754772	16,144.85	0.00	0.00	0.00
23,600.00	91.50	160.95	6,818.70	-14,722.63	7,133.98	304,274.34	1,777,473.03	39.3334253	-80.1753593	16,244.81	0.00	0.00	0.00
23,700.00	91.50	160.95	6,816.08	-14,817.12	7,166.61	304,179.84	1,777,505.66	39.3331666	-80.1752414	16,344.78	0.00	0.00	0.00
23,756.64	91.50	160.95	6,814.60	-14,870.64	7,185.09	304,126.32	1,777,524.14	39.3330200	-80.1751747	16,401.40	0.00	0.00	0.00
23,800.00	91.50	161.60	6,813.46	-14,911.69	7,199.00	304,085.27	1,777,538.06	39.3329076	-80.1751244	16,444.74	1.50	0.00	1.50
23,900.00	91.50	163.10	6,810.84	-15,006.95	7,229.31	303,990.02	1,777,568.36	39.3326467	-80.1750147	16,544.68	1.50	0.00	1.50
24,000.00	91.51	164.60	6,808.21	-15,102.97	7,257.11	303,894.00	1,777,596.17	39.3323836	-80.1749139	16,644.51	1.50	0.00	1.50
24,100.00	91.51	166.10	6,805.59	-15,199.68	7,282.39	303,797.28	1,777,621.45	39.3321186	-80.1748220	16,744.18	1.50	0.00	1.50
24,200.00	91.51	167.60	6,802.96	-15,297.02	7,305.13	303,699.94	1,777,644.18	39.3318519	-80.1747390	16,843.61	1.50	0.00	1.50
24,300.00	91.51	169.10	6,800.33	-15,394.93	7,325.31	303,602.04	1,777,664.36	39.3315835	-80.1746650	16,942.74	1.50	0.00	1.50
24,400.00	91.50	170.60	6,797.70	-15,493.32	7,342.92	303,503.64	1,777,681.97	39.3313137	-80.1746002	17,041.50	1.50	0.00	1.50
24,493.06	91.50	172.00	6,795.26	-15,585.28	7,356.99	303,411.69	1,777,696.04	39.3310615	-80.1745480	17,133.00	1.50	0.00	1.50
24,500.00	91.50	171.90	6,795.08	-15,592.15	7,357.96	303,404.81	1,777,697.01	39.3310427	-80.1745444	17,139.82	1.50	0.00	-1.50
24,600.00	91.50	170.40	6,792.46	-15,690.92	7,373.35	303,306.04	1,777,712.40	39.3307718	-80.1744874	17,238.20	1.50	0.00	-1.50
24,700.00	91.51	168.89	6,789.84	-15,789.26	7,391.32	303,207.71	1,777,730.37	39.3305022	-80.1744212	17,337.02	1.50	0.00	-1.50
24,800.00	91.51	167.39	6,787.21	-15,887.09	7,411.85	303,109.88	1,777,750.91	39.3302341	-80.1743460	17,436.19	1.50	0.00	-1.50
24,900.00	91.51	165.89	6,784.58	-15,984.35	7,434.94	303,012.62	1,777,774.00	39.3299675	-80.1742618	17,535.66	1.50	0.00	-1.50
25,000.00	91.50	164.39	6,781.95	-16,080.97	7,460.57	302,916.00	1,777,799.63	39.3297028	-80.1741687	17,635.36	1.50	0.00	-1.50
25,100.00	91.50	162.89	6,779.33	-16,176.88	7,488.73	302,820.08	1,777,827.78	39.3294400	-80.1740666	17,735.21	1.50	0.00	-1.50
25,137.02	91.50	162.34	6,778.36	-16,212.20	7,499.78	302,784.76	1,777,838.84	39.3293433	-80.1740266	17,772.20	1.50	0.00	-1.50
25,200.00	91.50	162.34	6,776.71	-16,272.19	7,518.89	302,724.77	1,777,857.94	39.3291790	-80.1739575	17,835.14	0.00	0.00	0.00
25,300.00	91.50	162.34	6,774.09	-16,367.44	7,549.22	302,629.52	1,777,888.27	39.3289181	-80.1738477	17,935.08	0.00	0.00	0.00
25,400.00	91.50	162.34	6,771.47	-16,462.70	7,579.55	302,534.27	1,777,918.60	39.3286572	-80.1737380	18,035.01	0.00	0.00	0.00
25,500.00	91.50	162.34	6,768.85	-16,557.95	7,609.88	302,439.01	1,777,948.93	39.3283963	-80.1736282	18,134.95	0.00	0.00	0.00
25,600.00	91.50	162.34	6,766.23	-16,653.20	7,640.21	302,343.76	1,777,979.26	39.3281354	-80.1735185	18,234.89	0.00	0.00	0.00
25,700.00	91.50	162.34	6,763.61	-16,748.46	7,670.54	302,248.51	1,778,009.59	39.3278745	-80.1734087	18,334.82	0.00	0.00	0.00
25,800.00	91.50	162.34	6,760.99	-16,843.71	7,700.87	302,153.25	1,778,039.93	39.3276136	-80.1732990	18,434.76	0.00	0.00	0.00
25,900.00	91.50	162.34	6,758.37	-16,938.96	7,731.20	302,058.00	1,778,070.26	39.3273528	-80.1731892	18,534.70	0.00	0.00	0.00
25,971.43	91.50	162.34	6,756.50	-17,007.00	7,752.87	301,989.97	1,778,091.92	39.3271664	-80.1731109	18,606.08	0.00	0.00	0.00



Company:	Diversified Production, LLC	Local Co-ordinate Reference:	Well Abbey 6MH
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 6MH	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #8	Database:	.Total Directional Production DB

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 v7 - Abbey 6MH - plan hits target center - Point	0.00	0.00	6,756.50	-17,007.00	7,752.87	301,989.96	1,778,091.92	39.3271664	-80.1731109
LP v7 - Abbey 6MH - plan hits target center - Point	0.00	360.00	7,230.00	14.79	2,045.93	319,011.75	1,772,384.98	39.3737798	-80.1937493

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2750	2750	0	0	KOP; Begin 2.00° Build
3000	3000	2	11	Continue 2.00° Build/Turn
4033	3990	70	273	Hold 25.65° Tangent
7118	6772	410	1565	Begin 10.00° Build/Turn
7967	7230	15	2046	Hold 91.50° Lateral
8767	7209	-678	2446	Begin 1.50° Turn
10,420	7164	-2241	2942	Continue 1.50° Turn
11,344	7140	-3142	3135	Hold 160.95° Az
23,757	6815	-14,871	7185	Begin 1.50° Turn
24,493	6795	-15,585	7357	Continue 1.50° Turn
25,137	6778	-16,212	7500	Hold 162.34° Az
25,971	6757	-17,007	7753	PBHL - 25971.43' MD

Checked By: _____ Approved By: _____ Date: _____



Diversified
Production LLC

WELL SITE SAFETY PLAN

Well Name: Abbey South 6MH

Pad Name: Abbey

911 Address:

39 Cathrine Drive

Shinnston, WV 26431

County: Harrison

District: Clay - Outside

UTM (meters), NAD83, Zone 17

Northing: 4,358,551.747

Easting: 568,823.044

April 2025

Kenny Willett

3/31/25

04/18/2025

ABBEY SOUTH WELL 6MH		
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	TRI-COUNTY WATER ASSOCIATION, INC.	3-6-26.3
7	TERRY D. & PATRICIA WYER	3-6-26
8	ROBERT & STEPHANIE WYER	3-6-26.4
9	DAVID & BARBARA PYBUS	3-6-37.2
10	ELTON O. JR & CONSTANCE C. FITZPATRICK	3-6-37.3
11	JOHN R. & DEBORAH P. CORDEAU IRREV TRUST	3-6-39
12	JOHN V. & NANCY A. BROSIUS	3-6-40.1
13	SEAN ALAN YOUNG	3-6-40.3
14	JOHN R. LINN HRS	3-6-48
15	JOYCE A. BOWMAN	3-68-47.29
16	EDWARD W. BRAND	3-68-47.54
17	CODY MICHAEL JONES & ARIEL NICOLE HAYES	3-68-47.90
18	JAMES ALLEN FRYMIER	3-68-47.94
19	KEVIN L CUNNINGHAM	3-68-47.119
20	TROY & ROBIN BLOSSER	3-68-47.113
21	KEVIN L. CUNNINGHAM	3-68-47.105
22	MARK V. SCHUMACHER	3-13-24
23	MARK V. SCHUMACHER	3-13-25
24	JAMES E. LOUDIN	3-13-23
25	KEVIN L. & DEBRA MANNING	3-13-22
26	SELBY R. & ROSEMARY B. WOODS	3-13-36.3
27	BRETT A. SCHROCK	P/O 3-13-39

ABBEY SOUTH WELL 6MH		
ID	SURFACE OWNER	DIST-TM-PAR
28	EVAN & WHITNEY HELMS KLIETHERMES	3-13-40
29	EVAN & WHITNEY HELMS KLIETHERMES	3-13-41
30	EVAN M. & WHITNEY M. KLIETHERMES	3-13-44
31	EVAN M. KLIETHERMES	3-13-42
32	EVAN & WHITNEY HELMS KLIETHERMES	3-14-20
33	JAMES K. ALFRED	3-14-21
34	BARBARA C. COMPTON	3-14-22
35	DAVID L. BOOTH	3-14-23.1
36	DARLENE VIVIAN & DUANE R. RHODES	3-14-23.4
37	DAVID LEE BOOTH	3-14-23.9
38	ROBIN D. FARIS	P/O 3-14-24

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 6MH
SCALE: 1" = 2,000'
DATE: MARCH 29, 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 6MH
API WELL #: 47 33 06047
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) TMD: 7,230'± TMD: 25,971'±

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

ABBAY SOUTH WELL 6MH			
ID	LEASE NUMBER	LESSOR	LEASE ACREAGE
A	101263000	WILLOW CREEK MHV	6.77
B	101282000, 101283000, 101272000, 101094000, 101069000, 101284000, 101271000, 101285000	ROGER LEE STACKHOUSE, ET AL	4.39
C	101286000	LARRY B. & LAURA L. WEAVER	4.00
D	101250000	CHARLES THOMAS LITTLE	19.45
E	101182000	TERRY D. & PATRICIA WYER	34.41
F	101287000	TRI-COUNTY WATER ASSOCIATION, INC.	0.02
G	101281000	AUGUSTA RESOURCES, LLC	47.52
H	101065000, 101065000, 101097000, 101288000, 101275000, 101295000, 101289000, 101290000, 101291000, 101292000, 101293000, 101294000, 101106000	DONALD R. REYNOLDS, ET AL	23.68
I	BP070831	J.R. VALENTINE	33.50
J	BP071104	MARY F. LINN	8.00
K	BP070955	W.F. WHITE	148.00
L	BP070384	J.C. NUZUM, ET AL	109.00
M	BP062633	W. CLYDE HERTZOG, ET AL	50.00
N	BP048028	VIONIA HERTZOG	108.00
O	BP059113	ROY ELDER, ET UX	50.00
P	BP057189	RUFUS HOLDEN, ET UX	43.00
Q	BP067174	L.R. DAVIS, ET AL	51.00
R	BP049762	CHARLES H PAYNE, ET AL	100.25
S	BP067173	LOUISE R. DAVIS, ET AL	51.00
T	BP024535	HELEN COCHRAN, ET AL	270.00

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

THRASHER

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



Diversified
Production LLC

FILE #: T70-11275 ABBEY WELL PAD
DRAWING #: ABBAY SOUTH 6MH
SCALE: 1" = 2,000'
DATE: MARCH 28, 2025

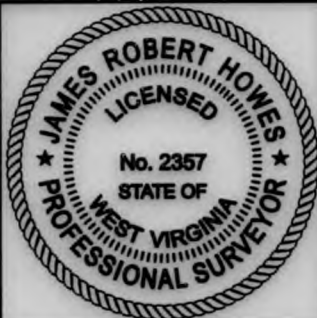
MINIMUM DEGREE
OF ACCURACY: 1/2500
PROVEN SOURCE SURVEY GRADE GPS
OF ELEVATION: (NAVD 88, US FT)

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: _____

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 #: ABBAY SOUTH 6MH
API WELL #: 47 33 06047
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: 7,230'± TMD: 25,971'±

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 2,238 feet south of Latitude: 39° 20' 00"
SHL is located on topo map 422 feet south of Latitude: 39° 22' 30"

ABBHEY SOUTH 6MH

API WELL# 47-033-06047

PAGE 3 OF 3

WELL PAD ORIENTATION DETAIL NTS



WELL RESTRICTIONS

1. THERE IS ONE DWELLING WITHIN 625 FEET OF CENTER OF PAD. A WELL LOCATION RESTRICTION WAIVER WAS OBTAINED FROM MARIA R. SASTRAM.
2. NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
3. NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
4. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
5. NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS.

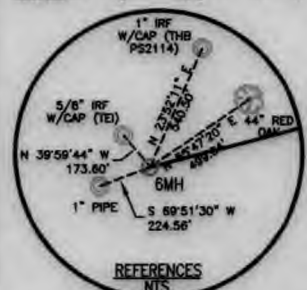
NOTES ON SURVEY

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

LINE	BEARING	DISTANCE
L1	S 69° 51' 30" W	224.56'
L2	N 55° 47' 20" E	499.84'
L3	N 23° 52' 11" E	540.50'
L4	N 39° 59' 44" W	173.60'

SURFACE HOLE LOCATION (SHL)	
UTM 17-NAD83 (M):	NAD83, WV NORTH (FT)
NORTHING: 4358551.747	NORTHING: 318996.963
EASTING: 568823.044	EASTING: 1770339.053
LANDING POINT LOCATION (LPL)	
UTM 17-NAD83 (M):	NAD83, WV NORTH (FT)
NORTHING: 4358566.633	NORTHING: 319011.754
EASTING: 569446.302	EASTING: 1772384.984
BOTTOM HOLE LOCATION (BHL)	
UTM 17-NAD83 (M):	NAD83, WV NORTH (FT)
NORTHING: 4352916.627	NORTHING: 300382.895
EASTING: 571081.092	EASTING: 1777440.680

GRID NORTH
WV STATE PLANE
NORTH ZONE NAD83 (2011)



LEGEND

- TOPO MAP POINT
- PROD. SURFACE HOLE / BOTTOM HOLE
- PROD. 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

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

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
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*See attached

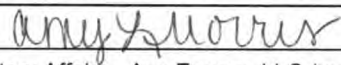
*Co-tenancy utilization - At least 7 mineral owners in tract. At least 75% of the royalty owners have executed a lease on the tract. The interests of the remaining co-tenants were acquired pursuant to the Co-tenancy Modernization and Majority Protection Act.

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

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

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	3-6-26.3	101287000	TRI-COUNTY WATER ASSOCIATION, INC.	LONG RIDGE WEST VIRGINIA, LLC	15%	75	117
E	3-6-26 3-6-26.4	101182000	TERRY D. WYER AND PATRICIA WYER	LONG RIDGE WEST VIRGINIA, LLC	16%	73	478
G	3-6-37.2 3-6-37.3	101281000	AUGUSTA RESOURCES, LLC	LONG RIDGE WEST VIRGINIA, LLC	16%	75	65
H	3-6-39	101065000	DONALD R. REYNOLDS	LONG RIDGE WEST VIRGINIA, LLC	16%	394	130
		101065000	DIANE K. REYNOLDS	LONG RIDGE WEST VIRGINIA, LLC	16%	394	130
		101097000	CGI % MICHAEL P. GEHO	LONG RIDGE WEST VIRGINIA, LLC	16%	73	103
		101288000	SARAH BETH ANDERSON FKA SARAH BETH CORBIN	LONG RIDGE WEST VIRGINIA, LLC	15%	75	67
		101275000	CHARLES WAYNE FOUTZ	LONG RIDGE WEST VIRGINIA, LLC	15%	74	536
		101295000	KAISE LYNN FOUTZ MAICH	LONG RIDGE WEST VIRGINIA, LLC	15%	74	544
		101289000	EMILY ANN FOUTZ HARTT	LONG RIDGE WEST VIRGINIA, LLC	15%	Co-tenancy	Co-tenancy
		101290000	MELANIE LYNN FOUTZ QUARLE	LONG RIDGE WEST VIRGINIA, LLC	15%	Co-tenancy	Co-tenancy
		101291000	CHARLENE A. BENNETT	LONG RIDGE WEST VIRGINIA, LLC	15%	Co-tenancy	Co-tenancy
		101292000	WACO OIL AND GAS CO., INC.	LONG RIDGE WEST VIRGINIA, LLC	15%	75	83
		101293000	MICHAEL ROSS	LONG RIDGE WEST VIRGINIA, LLC	15%	75	71
		101294000	COLLINGWOOD APPALACHIAN MINERALS II, LLC	LONG RIDGE WEST VIRGINIA, LLC	16%	73	605
I	3-6-40.1 3-6-40.3	100812000	COLLINGWOOD APPALACHIAN MINERALS III, LLC	LONG RIDGE WEST VIRGINIA, LLC	15%	73	171
			JAMES R. VALENTINE AND CLARA D. VALENTINE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	25	292
			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
J	3-6-48	100817000	MARY F. LINN, WIDOW; VELA E. VINCENT, WIDOW; OPAL A. LINN, SINGLE; DESSIE S. STEMPEL AND JAMES A. STEMPEL, HER HUSBAND; SARAH A. SINSEL AND GRANT SINSEL, HER HUSBAND; AND REYMOND C. LINN AND ARIE L. LINN, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	25	359
			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	138	270
			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	5	555
			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
			DOMINION TRANSMISSION, INC.	TRIANA ENERGY, LLC	ASSIGNMENT	33	377
			TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	39	69
			M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	39	148
K	3-6B-47.29 3-6B-47.54 3-6B-47.90 3-6B-47.94 3-6B-47.119 3-6B-47.113 3-6B-47.105	100815000	WALTER F. WHITE AND VIRGINIA E. WHITE, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	25	323
			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	138	270
			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	5	555
			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
			DOMINION TRANSMISSION, INC.	TRIANA ENERGY, LLC	PARTIAL ASSIGNMENT	33	377
			TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	39	69
			M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	39	148
L	3-13-24 3-13-25	100807000	JESSE C. NUZUM AND LOIS A. NUZUM, HIS WIFE; NARCISSUS WHITESCARVER AND L.W. WHITESCARVER, HER HUSBAND; NOLA MATTHEW, SINGLE; BESSIE FLEMING AND W. FRED FLEMING, HER HUSBAND; C.B. STARK AND ORA B. STARK, HIS WIFE; LILLIAN CHRISLIP, SINGLE; CHARLES CHRISLIP AND EVA M. CHRISLIP, HIS WIFE; CLARENCE E. STARK AND MARY M. STARK, HIS WIFE; JOHN H. CHRISLIP AND STELLA CHRISLIP, HIS WIFE; M.B. TOLLEY AND BLANCHE TOLLEY, HIS WIFE; AND MARY H. CHRISLIP, WIFE OF ALLEN R. CHRISLIP	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	25	179
			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
			CLETA HATTAN, LORI HATTAN AS POA	LONG RIDGE WEST VIRGINIA, LLC	15%	Co-tenancy	Co-tenancy
			PAUL CURREY	LONG RIDGE WEST VIRGINIA, LLC	12.5%	75	135
			Steven M. Currey and Michael A. Currey, Co-Trustees of The Currey Family Revocable Inter Vivos Trust, dated August 4, 1989	LONG RIDGE WEST VIRGINIA, LLC	15%	Co-tenancy	Co-tenancy
			SARAH A. CURREY FKA SARAH ANN WELLS	LONG RIDGE WEST VIRGINIA, LLC	12.5%	74	361

Abbey South	TAX MAP	CURRENT LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
M	3-13-23	100690000	W. CLYDE HERTZOG, SINGLE; ALICE M. HOLDEN, WIDOW; MARTIN GOODWIN, WIDOWER; VIRGIL R. HERTZOG AND FAITHE HERTZOG, HIS WIFE; MAUDE JANES, WIDOW; CLARENCE J. RECTOR AND LIZA M. RECTOR, HIS WIFE; HAYWARD H. REED AND MILDRED C. REED, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	22	321
			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
N	3-13-22	100690000	VIONIA HERTZOG	GRAFTON DRILLING COMPANY	NOT LESS THAN 1/8	7	304
			GRAFTON DRILLING COMPANY	COMET OIL AND GAS COMPANY	ASSIGNMENT	8	85
			COMET OIL AND GAS COMPANY	PITTSBURGH AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	77	293
			PITTSBURGH AND WEST VIRGINIA GAS COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	19	214
			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	138	270
			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	5	555
			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
			DOMINION TRANSMISSION, INC.	TRIANA ENERGY, LLC	PARTIAL ASSIGNMENT	33	377
			TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	39	69
			M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	39	148
O	3-13-36.3	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
P	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

Abbey South	TAX MAP	CURRENT LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
Q	3-13-40 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
R	3-13-42	100700000	CHAS. H. PAYNE AND JEAN M. PAYNE, HIS WIFE; F.C. PAYNE, SINGLE; MODENA TIGHE AND T.H. TIGHE, HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	19	163
			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	3-14-20	100790000	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	386
			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	3-14-21 3-14-22 3-14-23.1 3-14-23.4 3-14-23.9 P/O 3-14-24	100673000	HELEN M. COCHRAN, WIDOW; RACHEL COCHRAN, SINGLE; Z.B. COCHRAN & INGABE COCHRAN, HIS WIFE; HELEN LORETTA SAYERS & W.H. SAYERS, HER HUSBAND; MINERVA A. STARK & ATWELL STARK, HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	7	133
			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	138	270
			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	5	555
			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
			DOMINION TRANSMISSION, INC.	TRIANA ENERGY, LLC	ASSIGNMENT	33	377
			TRIANA ENERGY, LLC	M4 ENERGY, LLC	ASSIGNMENT	39	69
			M4 ENERGY, LLC	LONG RIDGE WEST VIRGINIA, LLC	ASSIGNMENT FARMOUT AGREEMENT	39	148

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 26342 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 7 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 30th 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 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

75-117

Taylor County
Jaron Freeman, Clerk
Instrument 20240007312
10/24/2024 @ 02:11:16 PM
OIL & GAS LEASE
Book 75 # Page 117
Pages Recorded 2
Recording Cost \$ 12.00

MEMORANDUM OF OIL AND GAS LEASE

This Memorandum of Oil and Gas Lease is made this 18 day of September, 2024, with an effective date of 9-18-24, by and between **Tri-County Water Association, Inc.**, with an address of 113 Minnicks Drive, 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 9-18-24 (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) **3-6-26.3**, being all the property owned by Lessor or to which the Lessor may have any rights in said District or adjoining Districts, containing 0.02 acres, more or less, and begin the property described in Official Records Book 336 Page 191.
3. The Lease was executed on 9-18-24, has a primary term of five (5) year(s) and commencing on 9-18-24, 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 Boothes 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 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

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 12th day of September, 2020, with an effective date of 9-12-2023, by and between **Donald R. Reynolds and Diane K. Reynolds**, with an address of PO Box 607 Jane Lew, WV 26378 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 9-12-2023 (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 Bootles Creek District, Taylor County, West Virginia, Tax Map 6 Parcel Number(s) 39, 39.1, 39.2 being all the property owned by Lessor or to which the Lessor may have any rights in said District or adjoining Districts, containing 26.0 acres, more or less, and begin the property described in Official Deed Book 350 Page 500
3. The Lease was executed on 9-12-2023, has a primary term of five (5) year(s) and commencing on 9-12-2023, 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

REX BURGARDNER
1673 CHUB RUN RD
MOUNT CLARE WV 26408-7127

73-103

Taylor County
Jaron Freeman, Clerk
Instrument 202300010071
11/02/2023 @ 10:43:46 AM
OIL & GAS LEASE
Book 73 @ Page 103
Pages Recorded 2
Recording Cost \$ 12.00

MEMORANDUM OF OIL AND GAS LEASE

This Memorandum of Oil and Gas Lease is made this 25 day of Oct, 2023, with an effective date of 25 Oct 23, by and between CGI, with an address of PO Box 7234 Fort Gordon, Ga 30905 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 25 Oct 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 Map 6 Parcel 35.0 containing 23.68 acres, more or less, and begin the property described in Official Records Book 350 Page 500, and Map 6 Parcel 39.1 containing 0.32 acres more or less, and begin the property described in Official Records Book 217 Page 87, and Map 6 Parcel 39.2 containing 2.0 acres more or less, and begin the property described in Official Records Book 350 Page 500, being all the property owned by Lessor or to which the Lessor may have any rights in said District or adjoining Districts.

3. The Lease was executed on 25 Oct 23, has a primary term of five (5) year(s) and commencing on 25 Oct 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

04/18/2025

MEMORANDUM OF OIL AND GAS LEASE

This Memorandum of Oil and Gas Lease is made this 18 day of September, 2024, with an effective date of 9-18-24, by and between **Sarah Beth Anderson FKA Sarah Beth Corbin**, with an address of 6251 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 9-18-24 (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) **3-6-39, 3-6-39.1, 3-6-39.2**, being all the property owned by Lessor or to which the Lessor may have any rights in said District or adjoining Districts, containing 26 acres, more or less, and begin the property described in Official Records Book 350 Page 500, Book 217 Page 87.

3. The Lease was executed on 9-18-24, has a primary term of five (5) year(s) and commencing on 9-18-24, 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 27 day of July, 2024, with an effective date of 7/27/24, by and between **Charles Wayne Foutz**, with an address of 2427 Divot Ln, Navasota, TX 77868, 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 7-27-24 (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) **3-6-39**, being all the property owned by Lessor or to which the Lessor may have any rights in said District or adjoining Districts, containing 23.68 acres, more or less, and begin the property described in Official Records Book 350 Page 500.

3. The Lease was executed on 7-27-24, has a primary term of five (5) year(s) and commencing on 7/27/24, 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 18th day of June, 2024, with an effective date of 6-18-24, by and between **Kasie Lynn Foutz Maich**, with an address of 2513 Hamilton Ave, Concord, CA 94519, 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 6-18-24 (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 3-6-23, P/O 3-6-23, P/O 3-6-23.1, P/O 3-6-23.1, 3-6-24**, being all the property owned by Lessor or to which the Lessor may have any rights in said District or adjoining Districts, containing 10.71 acres, 2.58 acres, 5.08 acres, 2.1 acres, 1.92 acres, 2.91 acres, more or less, and begin the property described in Official Records Book 204 Page 86, Book 339 Page 149, Book 348 Page 370.

3. The Lease was executed on 6-18-24, has a primary term of five (5) year(s) and commencing on 6-18-24, 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

75-83

MEMORANDUM OF OIL AND GAS LEASE

This Memorandum of Oil and Gas Lease is made this 7th day of August, 2024, with an effective date of Aug 7, 2024, by and between **Waco Oil & Gas Co., Inc.**, with an address of P.O. Box 397, Glenville, WV 26351, 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 Aug 7, 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) **3-6-39**, being all the property owned by Lessor or to which the Lessor may have any rights in said District or adjoining Districts, containing 23.68 acres, more or less, and begin the property described in Official Records Book 350 Page 500.

3. The Lease was executed on Aug 7, 2024, has a primary term of five (5) year(s) and commencing on Aug 7, 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

75-71

MEMORANDUM OF OIL AND GAS LEASE

This Memorandum of Oil and Gas Lease is made this 22nd day of July, 2024, with an effective date of 7-22-24, by and between **Michael Ross aka Mike Ross**, with an address of PO Box 219, Coalton, WV 26257, 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 7-22-24 (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 3-6-23; P/O 3-6-23.1;; 3-6-39**, being all the property owned by Lessor or to which the Lessor may have any rights in said District or adjoining Districts, containing 10.71 acres, 2.1 acres, and 23.68 acres, more or less, and begin the property described in Official Records Book 204 Page 86, Book 339 Page 149, Book 350 Page 500.

3. The Lease was executed on 7-22-24, has a primary term of five (5) year(s) and commencing on 7-22-24, 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

73-605

Taylor County
Jaron Freeman, Clerk
Instrument 202400002840
04/09/2024 @ 10:15:29 AM
OIL & GAS LEASE
Book 73 @ Page 605
Pages Recorded 2
Recording Cost \$ 12.00

MEMORANDUM OF OIL AND GAS LEASE

This Memorandum of Oil and Gas Lease is made this 28th day of February, 2024, with an effective date of Feb. 28, 2024, by and between **Collingwood Appalachian Minerals II, LLC**, with an address of 16000 Park Ten Pl., Unit 603, Houston, TX 77084, 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 Feb. 28, 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) **3-6-39**, being all the property owned by Lessor or to which the Lessor may have any rights in said District or adjoining Districts, containing 23.68 acres, more or less, and begin the property described in Official Records Book 350 Page 500.

3. The Lease was executed on Feb. 28, 2024, has a primary term of two (2) year(s) and commencing on Feb. 28, 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

MORGAN THOMPSON
1504 14TH ST
PARKERSBURG WV 26101-4156

Taylor County
Jaron Freeman, Clerk
Instrument 202300011118
12/15/2023 @ 09:46:58 AM
OIL & GAS LEASE
Book 73 @ Page 171
Pages Recorded 2
Recording Cost \$ 12.00

MEMORANDUM OF OIL AND GAS LEASE

This Memorandum of Oil and Gas Lease is made this 20th day of September, 2023, with an effective date of Sept. 20, 2023, by and between Collingwood Appalachian Minerals III, LLC, with an address of 16000 Park Ten Pl. Unit 603, Houston, TX 77084, 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. 20, 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 Booths Creek District, Taylor County, West Virginia, Tax Parcel Number(s) 3-6-39, 3-6-39.1, and 3-6-39.2, being all the property owned by Lessor or to which the Lessor may have any rights in said District or adjoining Districts, containing 23.68 acres, 0.32 acres, and 2 acres more or less, and begin the property described in Official Records Book 350 Page 500, Book 217 Page 87, and Book 350 Page 500.

3. The Lease was executed on Sept. 20, 2023, has a primary term of two (2) year(s) and commencing on Sept. 20, 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

Harrison County
John R. Boltes, Clerk
Instrument: 202200022696
08/22/2022 @ 11:50:20 AM
DEED ASSIGNMENT
Book 1756 @ Page 142
Pages Recorded 19
Recording Cost \$ 25.00

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, Watsonstown, PA 17777 ("**Assignor**"), and LONG RIDGE WEST VIRGINIA LLC, a Delaware limited liability company, whose address is 501 Corporate Drive, Suite 210, Canonsburg, PA 15317, successor to Ohio River Partners Shareholder LLC, a Delaware limited liability company ("**Assignee**"). The foregoing are sometimes herein referred to individually as a "**Party**" and collectively as the "**Parties**."

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

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

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

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



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 6MH

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 6MH. 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 # 11937
250000

RECEIVED
Office of Oil and Gas

APR 02 2025

WV Department of
Environmental Protection

04/18/2025