

State of West Virginia  
Department of Environmental Protection - Office of Oil and Gas  
Well Operator's Report of Well Work

API 47 - 103 - 03092 County Wetzel District Green  
Quad Center Point Pad Name Reilly GRN WZ Field/Pool Name \_\_\_\_\_  
Farm name WV DNR Public Lands Corp Well Number Reilly N GRN WZ 5H  
Operator (as registered with the OOG) TRIBUNE RESOURCES, LLC  
Address 3861 Ambassador Caffery Pkw City Lafayette State LA Zip 70503

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4371714.5 Easting 526689.7  
Landing Point of Curve Northing 4371474.4 Easting 526430.3  
Bottom Hole Northing 4367262.1 Easting 528952.9

Elevation (ft) 1,474' GL Type of Well  New  Existing Type of Report  Interim  Final  
Permit Type  Deviated  Horizontal  Horizontal 6A  Vertical Depth Type  Deep  Shallow  
Type of Operation  Convert  Deepen  Drill  Plug Back  Redrilling  Rework  Stimulate  
Well Type  Brine Disposal  CBM  Gas  Oil  Secondary Recovery  Solution Mining  Storage  Other \_\_\_\_\_  
Type of Completion  Single  Multiple Fluids Produced  Brine  Gas  NGL  Oil  Other \_\_\_\_\_  
Drilled with  Cable  Rotary

Drilling Media Surface hole  Air  Mud  Fresh Water Intermediate hole  Air  Mud  Fresh Water  Brine  
Production hole  Air  Mud  Fresh Water  Brine  
Mud Type(s) and Additive(s)  
Surface – fresh water, 8.8 ppg, Intermediate – water based mud, 9.1 ppg, Vertical to KOP – water based mud, 9.4 ppg  
Curve / Lateral – Synthetic Oil Based Mud, 12.8 to 13 ppg

Date permit issued 05/05/2022 Date drilling commenced 12/6/2022 Date drilling ceased 12/15/2023  
Date completion activities began 02/09/2023 Date completion activities ceased 06/02/2023  
Verbal plugging (Y/N) N Date permission granted \_\_\_\_\_ Granted by \_\_\_\_\_

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 536 Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 1316 Void(s) encountered (Y/N) depths N  
Coal depth(s) ft N/A Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

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Reviewed by:  
[Signature]  
04/19/2024

API 47- 103 - 03092 Farm name WV DNR Public Lands Corp Well number Reilly N GRN WZ 5H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	26"	20"	128'	New	J-55/96		Y
Surface	17-1/2"	13-3/8"	649'	New	J-55/54.5		Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2986'	New	J-55/40		Y
Intermediate 2							
Intermediate 3							
Production	8-1/2"	5-1/2"	24255'	New	P-110/20		Y
Tubing		2 7/8"	8082'	New	L-80		
Packer type and depth set							

Comment Details Full circulation on all casing jobs

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	Class A	188				Surface	8
Surface	Class A	536	15.6	1.19	115 bbls	Surface	8
Coal							
Intermediate 1	Class A	940	15	1.29	216 bbls	Surface	8
Intermediate 2							
Intermediate 3							
Production	Class A	5263	15.2	1.12	959 bbls	2000'	8
Tubing							

Drillers TD (ft) 24272' MD Loggers TD (ft) 24272' MD

Deepest formation penetrated Marcellus Plug back to (ft) \_\_\_\_\_

Plug back procedure \_\_\_\_\_

Kick off depth (ft) 6800'

Check all wireline logs run  caliper  density  deviated/directional  induction  
 neutron  resistivity  gamma ray  temperature  sonic

Well cored  Yes  No Conventional Sidewall Were cuttings collected  Yes  No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING \_\_\_\_\_

Surface - centralizer run every three joints.

Intermediate - centralizer run every three joints.

Production - centralizer run every three joints from TD to vertical, then every 5 joints from KOP to surface.

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WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS \_\_\_\_\_

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WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS \_\_\_\_\_

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED \_\_\_\_\_

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PRODUCING FORMATION(S)	DEPTHS	
Marcellus	7438'	TVD 7941' MD

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 2204 psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 16395 mcfpd Oil 79 bpd NGL 0 bpd Water 156 bpd GAS MEASURED BY  Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
	0		0		
Freshwater	536	Not Logged	536	Not Logged	
Pittsburgh Coal	1066	Not Logged	1066	Not Logged	
Saltwater	1316	N/A	N/A	N/A	
Big Injun	2342	2551	2342	2551	Sand/Shale, Saltwater
Berea	2912	2925	2925	2949	Sand/Shale, Saltwater
Gordon	3115	3182	3130	3197	Sand/Shale, oil and Saltwater
Middlesex	6994	7105	7119	7263	Shale/Organic Shale, Natural Gas and Salt Water
Geneseo	7105	7140	7263	7316	Organic Shale, Natural Gas and Salt Water
Tully	7140	7156	7316	7343	Limestone, Saltwater
Hamilton	7156	7223	7343	7490	Shale/Organic Shale, Natural Gas and Salt Water
Marcellus	7223	Not Reached	7490	Not Reached	Organic Shale, Natural Gas and Salt Water
Onondaga (Pilot Hole)	7274	Not Reached	Not Reached	Not Reached	Limestone, Natural Gas and Saltwater

Please insert additional pages as applicable.

Drilling Contractor H&P Drilling  
Address 912 N Eagle Valley Rd City Howard State PA Zip 16841

Logging Company Schlumberger  
Address 4600 J. Barry Ct., Ste. 200 City Canonsburg State PA Zip 15317

Cementing Company Schlumberger  
Address 4600 J. Barry Ct., Ste. 200 City Canonsburg State PA Zip 15317

Stimulating Company Profrac  
Address 800 Mountain Vw Dr City Smithfield State PA Zip 15478

Please insert additional pages as applicable.

Completed by Lee L. Lawson Telephone 337-769-0032  
Signature \_\_\_\_\_ Title Regulatory/HSE Director Date \_\_\_\_\_

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Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

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# Perforation Record Reilly N GRN WZ 5H



Int #	Minimum of Top (ftKB)	Maximum of Btm (ftKB)	Sum of Calculated Shot Total	Target Form
1	24,053.0	24,229.0	50	Marcellus Shale
2	23,841.0	24,024.0	45	Marcellus Shale
3	23,629.0	23,812.0	45	Marcellus Shale
4	23,417.0	23,600.0	45	Marcellus Shale
5	23,206.0	23,388.0	45	Marcellus Shale
6	22,993.0	23,176.0	45	Marcellus Shale
7	22,781.0	22,964.0	45	Marcellus Shale
8	22,569.0	22,752.0	45	Marcellus Shale
9	22,357.0	22,538.0	45	Marcellus Shale
10	22,145.0	22,328.0	45	Marcellus Shale
11	21,933.0	22,116.0	45	Marcellus Shale
12	21,721.0	21,904.0	45	Marcellus Shale
13	21,509.0	21,692.0	45	Marcellus Shale
14	21,297.0	21,480.0	45	Marcellus Shale
15	21,085.0	21,268.0	45	Marcellus Shale
16	20,873.0	21,056.0	45	Marcellus Shale
17	20,661.0	20,844.0	45	Marcellus Shale
18	20,449.0	20,632.0	45	Marcellus Shale
19	20,237.0	20,420.0	45	Marcellus Shale
20	20,027.0	20,208.0	45	Marcellus Shale
21	19,813.0	19,996.0	45	Marcellus Shale
22	19,601.0	19,784.0	45	Marcellus Shale
23	19,389.0	19,572.0	45	Marcellus Shale
24	19,177.0	19,360.0	45	Marcellus Shale
25	18,965.0	19,147.0	45	Marcellus Shale
26	18,753.0	18,936.0	45	Marcellus Shale
27	18,541.0	18,724.0	45	Marcellus Shale
28	18,329.0	18,512.0	45	Marcellus Shale
29	18,117.0	18,300.0	45	Marcellus Shale
30	17,905.0	18,088.0	45	Marcellus Shale
31	17,693.0	17,876.0	45	Marcellus Shale
32	17,481.0	17,664.0	45	Marcellus Shale
33	17,269.0	17,452.0	45	Marcellus Shale
34	17,057.0	17,240.0	45	Marcellus Shale
35	16,845.0	17,028.0	45	Marcellus Shale
36	16,633.0	16,816.0	45	Marcellus Shale
37	16,421.0	16,604.0	45	Marcellus Shale
38	16,209.0	16,392.0	45	Marcellus Shale
39	15,997.0	16,176.0	45	Marcellus Shale
40	15,785.0	15,968.0	45	Marcellus Shale
41	15,573.0	15,754.0	45	Marcellus Shale
42	15,361.0	15,544.0	45	Marcellus Shale
43	15,149.0	15,332.0	45	Marcellus Shale
44	14,937.0	15,120.0	45	Marcellus Shale
45	14,725.0	14,908.0	45	Marcellus Shale
46	14,513.0	14,696.0	45	Marcellus Shale
47	14,303.0	14,484.0	45	Marcellus Shale
48	14,089.0	14,272.0	45	Marcellus Shale
49	13,877.0	14,060.0	45	Marcellus Shale
50	13,665.0	13,848.0	45	Marcellus Shale
51	13,453.0	13,635.0	45	Marcellus Shale
52	13,241.0	13,424.0	45	Marcellus Shale
53	13,029.0	13,212.0	45	Marcellus Shale
54	12,817.0	13,000.0	45	Marcellus Shale
55	12,605.0	12,788.0	45	Marcellus Shale
56	12,393.0	12,577.0	45	Marcellus Shale
57	12,181.0	12,365.0	45	Marcellus Shale
58	11,969.0	12,153.0	45	Marcellus Shale
59	11,757.0	11,941.0	45	Marcellus Shale
60	11,545.0	11,729.0	45	Marcellus Shale

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# Perforation Record Reilly N GRN WZ 5H



Int #	Minimum of Top (ftKB)	Maximum of Btm (ftKB)	Sum of Calculated Shot Total	Target Form
61	11,333.0	11,517.0	45	Marcellus Shale
62	11,121.0	11,305.0	45	Marcellus Shale
63	10,909.0	11,093.0	45	Marcellus Shale
64	10,697.0	10,881.0	45	Marcellus Shale
65	10,485.0	10,669.0	45	Marcellus Shale
66	10,273.0	10,457.0	45	Marcellus Shale
67	10,061.0	10,242.0	45	Marcellus Shale
68	9,849.0	10,033.0	45	Marcellus Shale
69	9,637.0	9,821.0	45	Marcellus Shale
70	9,425.0	9,604.0	45	Marcellus Shale
71	9,213.0	9,397.0	45	Marcellus Shale
72	9,001.0	9,185.0	45	Marcellus Shale
73	8,789.0	8,973.0	45	Marcellus Shale
74	8,577.0	8,761.0	45	Marcellus Shale
75	8,365.0	8,549.0	45	Marcellus Shale
76	8,153.0	8,337.0	45	Marcellus Shale
77	7,941.0	8,125.0	45	Marcellus Shale

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# Stimulation Record Reilly N GRN WZ 5H



Interval Number	End Date	Slurry Rate Avg (gpm)	P Treat Avg (psi)	P Breakdown (psi)	Proppant Total (lb)	Vol Clean Total (bbl)	Vol N2 Total (bbl)
1	3/29/2023	80	9,120.0	7,010.0	428,200.0	10,269.80	0.00
2	3/29/2023	81	9,401.0	6,968.0	426,000.0	8,421.20	0.00
3	3/29/2023	79	9,443.0	6,712.0	424,900.0	8,122.50	0.00
4	3/30/2023	81	9,502.0	6,724.0	424,950.0	8,286.80	0.00
5	3/30/2023	79	9,450.0	7,089.0	425,100.0	7,824.40	0.00
6	3/30/2023	84	9,422.0	8,525.0	427,180.0	8,256.30	0.00
7	3/30/2023	83	9,404.0	7,003.0	424,440.0	8,993.70	0.00
8	3/31/2023	81	9,384.0	7,152.0	424,700.0	7,714.60	0.00
9	3/31/2023	82	9,456.0	7,072.0	424,480.0	8,106.60	0.00
10	4/1/2023	82	9,441.0	6,936.0	424,520.0	7,936.50	0.00
11	4/1/2023	84	9,483.0	6,628.0	422,420.0	8,102.20	0.00
12	4/1/2023	86	9,497.0	6,871.0	424,380.0	7,959.40	0.00
13	4/2/2023	83	9,392.0	6,498.0	426,120.0	7,898.90	0.00
14	4/2/2023	85	9,512.0	6,974.0	424,580.0	7,877.20	0.00
15	4/2/2023	84	9,478.0	7,133.0	424,440.0	7,885.00	0.00
16	4/2/2023	85	9,442.0	7,101.0	424,960.0	7,928.20	0.00
17	4/3/2023	83	9,464.0	7,055.0	423,800.0	7,753.30	0.00
18	4/3/2023	88	9,410.0	7,314.0	425,360.0	7,908.30	0.00
19	4/3/2023	88	9,459.0	6,975.0	424,480.0	7,907.80	0.00
20	4/3/2023	86	9,428.0	7,058.0	424,420.0	7,835.00	0.00
21	4/4/2023	86	9,466.0	7,128.0	423,780.0	7,742.50	0.00
22	4/4/2023	86	9,374.0	7,421.0	426,240.0	7,757.70	0.00
23	4/4/2023	88	9,459.0	6,897.0	425,160.0	7,914.10	0.00
24	4/5/2023	88	9,410.0	7,126.0	426,440.0	7,731.00	0.00
25	4/5/2023	88	9,389.0	6,954.0	424,860.0	7,688.10	0.00
26	4/5/2023	89	9,317.0	6,291.0	427,020.0	7,752.40	0.00
27	4/6/2023	90	9,367.0	6,548.0	425,760.0	7,755.10	0.00
28	4/6/2023	89	9,311.0	6,709.0	425,680.0	7,749.80	0.00
29	4/6/2023	89	9,339.0	6,425.0	424,560.0	7,618.10	0.00
30	4/7/2023	88	9,348.0	6,630.0	425,060.0	7,654.80	0.00
31	4/7/2023	90	9,277.0	6,766.0	424,300.0	7,955.50	0.00
32	4/7/2023	90	9,158.0	7,163.0	424,380.0	7,730.40	0.00
33	4/8/2023	90	9,329.0	6,626.0	424,240.0	7,632.20	0.00
34	4/8/2023	90	9,218.0	7,017.0	427,240.0	7,903.40	0.00
35	4/8/2023	90	9,088.0	6,617.0	425,700.0	7,521.70	0.00
36	4/9/2023	90	8,970.0	6,389.0	423,660.0	7,604.70	0.00
37	4/9/2023	90	8,824.0	6,357.0	424,600.0	7,679.60	0.00
38	4/9/2023	90	9,003.0	7,144.0	426,300.0	7,634.80	0.00
39	4/9/2023	89	8,794.0	7,313.0	424,660.0	7,565.00	0.00
40	4/10/2023	90	9,116.0	6,882.0	422,980.0	7,648.50	0.00
41	4/10/2023	90	8,744.0	7,399.0	424,480.0	7,653.40	0.00
42	4/10/2023	90	8,747.0	6,776.0	426,420.0	7,533.20	0.00
43	4/11/2023	90	8,778.0	7,401.0	425,320.0	7,739.80	0.00
44	4/11/2023	90	8,675.0	8,100.0	423,780.0	7,647.70	0.00
45	4/11/2023	90	8,609.0	7,600.0	423,960.0	7,468.00	0.00
46	4/11/2023	90	8,645.0	7,033.0	423,640.0	7,566.00	0.00
47	4/12/2023	90	8,836.0	6,864.0	423,460.0	7,556.40	0.00
48	4/12/2023	90	8,718.0	7,522.0	426,340.0	7,610.20	0.00
49	4/12/2023	90	8,659.0	7,118.0	424,680.0	7,393.00	0.00
50	4/13/2023	89	8,613.0	7,373.0	425,460.0	7,484.00	0.00
51	4/13/2023	90	8,626.0	6,951.0	424,440.0	7,415.30	0.00
52	4/13/2023	90	8,666.0	6,874.0	425,620.0	7,448.00	0.00
53	4/14/2023	90	8,521.0	6,430.0	424,120.0	7,534.10	0.00
54	4/14/2023	90	8,448.0	7,155.0	425,300.0	7,426.10	0.00
55	4/14/2023	91	8,406.0	7,480.0	424,600.0	7,450.10	0.00
56	4/14/2023	90	8,579.0	7,219.0	424,840.0	7,294.90	0.00
57	4/15/2023	89	8,650.0	6,630.0	424,880.0	7,342.00	0.00
58	4/15/2023	90	8,423.0	6,721.0	425,060.0	7,228.80	0.00
59	4/15/2023	90	8,370.0	6,539.0	423,200.0	7,424.00	0.00
60	4/16/2023	90	8,268.0	6,697.0	422,800.0	7,551.80	0.00

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# Stimulation Record Reilly N GRN WZ 5H



Interval Number	End Date	Slurry Rate Avg (gpm)	P Treat Avg (psi)	P Breakdown (psi)	Proppant Total (lb)	Vol Clean Total (bbl)	Vol N2 Total (bbl)
61	4/16/2023	90	8,204.0	7,102.0	424,520.0	7,217.00	0.00
62	4/16/2023	90	8,265.0	6,938.0	423,980.0	7,220.10	0.00
63	4/17/2023	90	8,219.0	6,425.0	424,460.0	7,316.10	0.00
64	4/17/2023	91	8,115.0	6,479.0	425,020.0	7,351.90	0.00
65	4/17/2023	90	8,141.0	6,540.0	423,920.0	7,298.00	0.00
66	4/17/2023	90	8,118.0	6,665.0	423,460.0	7,249.00	0.00
67	4/18/2023	90	8,117.0	7,154.0	423,880.0	7,073.90	0.00
68	4/18/2023	90	8,054.0	6,971.0	424,520.0	7,224.90	0.00
69	4/18/2023	91	7,962.0	7,585.0	426,120.0	7,235.90	0.00
70	4/19/2023	91	7,950.0	6,939.0	424,720.0	6,975.00	0.00
71	4/19/2023	91	7,899.0	6,609.0	427,160.0	7,179.10	0.00
72	4/19/2023	90	7,937.0	6,643.0	424,120.0	7,013.00	0.00
73	4/19/2023	91	7,537.0	6,436.0	424,240.0	7,082.90	0.00
74	4/19/2023	90	7,854.0	6,645.0	424,320.0	7,138.10	0.00
75	4/20/2023	91	7,690.0	6,706.0	425,300.0	7,038.00	0.00
76	4/20/2023	90	7,661.0	7,189.0	424,780.0	7,313.00	0.00
77	4/20/2023	90	7,642.0	7,588.0	424,890.0	8,335.90	0.00

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# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	3/29/2023
Job End Date:	4/20/2023
State:	West Virginia
County:	Wayne
API Number:	47-103-03092-00-00
Operator Name:	Tribune Resources, LLC
Well Name and Number:	Reilly N GRN WZ 5H
Latitude:	39.49463800
Longitude:	-80.68960700
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,525
Total Base Water Volume (gal):	23,624,160
Total Base Non Water Volume:	0

## Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Tribune	Carrier/Base Fluid	Water	7732-18-5	100.00000	85.50751	None
Proppant	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	14.18905	None
Hydrochloric Acid (7.5%)	CNR	Acidizing	Water Hydrochloric Acid (Hydrogen Chloride)	7732-18-5 7647-01-0	85.00000 37.00000	0.20222 0.08802	None None
ProSlick 907	Solvay	Friction Reducer	Hydro-treated light distillate Ethoxylated Tridecanol Non-ionic surfactant	64742-47-8 Proprietary Proprietary	30.00000 5.00000 2.00000	0.01040 0.00173 0.00069	None None None
BioSuite GQ123x	BioSuite	Biocide	Glutaral	111-30-8	15.00000	0.00321	None
Acid Pack Pro LT	CNR	Acid Inhibitor and Iron Control	Quaternary ammonium compounds, benzyl-C-12-16-alkyldimethyl, chlorides	68424-85-1	5.00000	0.00107	None



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Other Chemical(s)	Listed Above	See Trade Name(s) List	Proprietary Blend	Proprietary	60.00000	0.00031	None	
			Ethylene Glycol	7732-18-5	30.00000	0.00015	None	
ProChek 170	ProFrac	Scale Inhibitor	Methyl alcohol	67-56-1	5.00000	0.00045	None	
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.								
			Water	7732-18-5	85.00000	0.20222		
			Ethoxylated Tridecanol	Proprietary	5.00000	0.00173		
			Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	88424-85-1	5.00000	0.00107		
			Non-ionic surfactant	Proprietary	2.00000	0.00069		
			Ethylene Glycol	7732-18-5	30.00000	0.00015		

\* Total Water Volume sources may include fresh water, produced water, and/or recycled water

\*\* Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided. Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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# Tribune Resources N GRN WZ 5H MWD Off to 24272ft MD Survey Geodetic Report

## Definitive Survey

**Report Date:** January 06, 2023 - 10:17 PM (UTC 0)  
**Client:** Tribune Resources  
**Field:** WV Wetzel County (NAD 27)  
**Structure / Slot:** Tribune Resources Reilly South Pad / Reilly N GRN WZ 5H  
**Well:** Reilly N GRN WZ 5H  
**Borehole:** Original Borehole  
**UBHI / API / JobNumber:** Unknown / Unknown / Unknown  
**Survey Name / Version:** Tribune Resources N GRN WZ 5H MWD Off to 24272ft MD / 2  
**Survey Date:** December 05, 2022  
**Tort / AHD / DDI / ERD Ratio:** 228.788 \* / 16107.243 ft / 7.167 / 2.394  
**Coordinate Reference System:** NAD27 West Virginia State Plane, Northern Zone, US Feet  
**Location Lat / Long:** N 39°29'40.3720" W 80°41'23.2080"  
**Location Grid N/E Y/X:** N 364458.317 RUS , E 1664243.102 RUS  
**CRS Grid Convergence Angle:** -0.7588"  
**Grid Scale Factor:** 0.99994336  
**Engine Version:** 2022.3.0.19

**Survey / DLS Computation:** Minimum Curvature / Lubinski  
**Vertical Section Azimuth:** 150.000 \*(Grid North)  
**Vertical Section Origin:** 0.000 ft, 0.000 R  
**TVD Reference Datum:** RKB  
**TVD Reference Elevation:** 1501.600 ft above MSL  
**Seabed / Ground Elevation:** 1474.000 ft above MSL  
**Magnetic Declination:** -8.030"  
**Total Gravity Field Strength:** 969.2955mgn (8.0665 Based)  
**Gravity Model:** GARM  
**Total Magnetic Field Strength:** 51740.59 nT  
**Magnetic Dip Angle:** 66.372°  
**Declination Date:** December 03, 2022  
**Magnetic Declination Model:** HDGM 2022  
**North Reference:** Grid  
**Total Corr Mag:** -7.2777"  
**Local Coord Referenced To:** Well Head

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	TVDSS (ft)	DLS (ft/100ft)	Northing (ft)	Easting (ft)	Latitude (°N)	Longitude (°W)
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.60160		364,458.32	1,664,243.10	N 39°29'40.37"	W 80°41'23.21"
	142.00	0.14	78.32	142.00	0.05	0.04	0.17	-1,359.60	0.10	364,458.35	1,664,243.27	N 39°29'40.37"	W 80°41'23.21"
	232.00	0.31	42.98	232.00	0.02	0.24	0.44	-1,269.60	0.24	364,458.55	1,664,243.55	N 39°29'40.38"	W 80°41'23.20"
	319.00	0.28	55.61	319.00	-0.07	0.52	0.77	-1,182.60	0.09	364,458.84	1,664,243.87	N 39°29'40.38"	W 80°41'23.20"
	411.00	0.17	333.92	411.00	-0.22	0.76	0.88	-1,090.60	0.51	364,459.05	1,664,243.98	N 39°29'40.38"	W 80°41'23.20"
	501.00	0.13	330.68	501.00	-0.45	0.91	0.77	-1,000.60	0.05	364,459.29	1,664,243.87	N 39°29'40.38"	W 80°41'23.20"
	590.00	0.19	3.90	590.00	-0.68	1.20	0.73	-911.60	0.12	364,459.52	1,664,243.83	N 39°29'40.38"	W 80°41'23.20"
	680.00	0.26	211.81	680.00	-0.70	1.18	0.83	-821.60	0.49	364,459.50	1,664,243.73	N 39°29'40.38"	W 80°41'23.20"
	769.00	0.29	241.39	769.00	-0.61	0.90	0.33	-732.60	0.16	364,459.22	1,664,243.43	N 39°29'40.38"	W 80°41'23.20"
	859.00	0.36	187.78	859.00	-0.40	0.59	0.49	-642.60	0.51	364,458.63	1,664,243.19	N 39°29'40.38"	W 80°41'23.21"
	948.00	0.30	206.33	948.00	-0.05	0.03	-0.06	-553.61	0.15	364,458.34	1,664,243.04	N 39°29'40.37"	W 80°41'23.21"
	1,038.00	0.63	200.73	1,037.99	0.38	-0.64	-0.35	-463.61	0.37	364,457.67	1,664,242.76	N 39°29'40.37"	W 80°41'23.21"
	1,128.00	0.45	204.20	1,127.99	0.90	-1.43	-0.67	-373.61	0.20	364,456.89	1,664,242.44	N 39°29'40.37"	W 80°41'23.22"
	1,217.00	0.57	191.91	1,216.98	1.44	-2.18	-0.90	-284.62	0.18	364,456.14	1,664,242.20	N 39°29'40.35"	W 80°41'23.22"
	1,307.00	0.38	220.75	1,306.98	1.87	-1.77	-0.91	-194.62	0.53	364,455.47	1,664,241.91	N 39°29'40.34"	W 80°41'23.23"
	1,396.00	0.49	200.76	1,395.98	2.21	-3.42	-1.52	-105.62	0.21	364,454.89	1,664,241.59	N 39°29'40.34"	W 80°41'23.23"
	1,486.00	0.17	147.43	1,485.98	2.58	-3.90	-1.58	-16.62	0.48	364,454.42	1,664,241.52	N 39°29'40.33"	W 80°41'23.23"
	1,576.00	0.25	116.54	1,575.97	2.88	-4.10	-1.33	74.37	0.15	364,454.22	1,664,241.77	N 39°29'40.33"	W 80°41'23.22"
	1,665.00	0.14	0.80	1,664.97	2.95	-4.07	-1.16	163.37	0.38	364,454.24	1,664,241.94	N 39°29'40.33"	W 80°41'23.22"
	1,755.00	0.32	1.91	1,754.97	2.64	-3.71	-1.15	253.37	0.20	364,454.60	1,664,241.85	N 39°29'40.34"	W 80°41'23.22"
	1,844.00	0.51	338.76	1,843.97	2.04	-3.10	-1.28	342.37	0.28	364,455.22	1,664,241.82	N 39°29'40.34"	W 80°41'23.22"
	1,934.00	0.79	316.81	1,933.97	1.04	-2.27	-1.85	432.37	0.41	364,456.05	1,664,241.25	N 39°29'40.35"	W 80°41'23.23"
	2,024.00	0.98	318.88	2,023.95	-0.32	-1.24	-2.78	522.35	0.21	364,457.08	1,664,240.32	N 39°29'40.36"	W 80°41'23.24"
	2,113.00	1.42	314.68	2,112.94	-2.13	0.11	-4.07	611.34	0.50	364,458.43	1,664,239.04	N 39°29'40.37"	W 80°41'23.23"
	2,203.00	1.74	309.46	2,202.99	-4.49	1.74	-5.91	701.30	0.39	364,460.88	1,664,237.15	N 39°29'40.38"	W 80°41'23.28"
	2,293.00	1.19	330.09	2,292.97	-6.70	3.44	-7.43	791.27	0.84	364,461.76	1,664,235.67	N 39°29'40.41"	W 80°41'23.30"
	2,382.00	0.69	338.78	2,381.86	-8.15	4.74	-8.09	880.26	0.58	364,463.06	1,664,235.01	N 39°29'40.42"	W 80°41'23.31"
	2,472.00	0.34	340.69	2,471.86	-8.95	5.50	-8.37	970.28	0.39	364,463.82	1,664,234.73	N 39°29'40.43"	W 80°41'23.32"
	2,562.00	0.30	109.84	2,561.86	-9.03	5.67	-8.24	1,060.26	0.64	364,463.99	1,664,234.66	N 39°29'40.42"	W 80°41'23.31"
	2,651.00	0.28	129.68	2,650.85	-9.26	5.26	-7.81	1,149.25	0.39	364,463.88	1,664,235.49	N 39°29'40.42"	W 80°41'23.31"
	2,741.00	0.66	130.85	2,740.85	-7.37	4.59	-6.81	1,238.25	0.03	364,462.90	1,664,236.30	N 39°29'40.42"	W 80°41'23.30"
	2,830.00	0.32	144.14	2,829.84	-6.64	4.05	-6.27	1,328.24	0.40	364,462.37	1,664,236.83	N 39°29'40.41"	W 80°41'23.29"
	2,920.00	0.36	150.36	2,919.84	-6.11	3.60	-5.98	1,418.24	0.06	364,461.92	1,664,237.12	N 39°29'40.41"	W 80°41'23.28"
	2,995.00	0.27	230.84	2,994.84	-5.95	3.41	-6.00	1,463.24	0.52	364,461.73	1,664,237.10	N 39°29'40.41"	W 80°41'23.28"
	3,013.00	0.69	201.49	3,012.84	-6.04	3.29	-6.37	1,511.24	1.00	364,461.61	1,664,236.73	N 39°29'40.40"	W 80°41'23.29"
	3,103.00	0.78	265.86	3,102.83	-6.50	3.17	-7.52	1,601.23	0.12	364,461.49	1,664,235.58	N 39°29'40.40"	W 80°41'23.30"
	3,192.00	0.80	261.69	3,191.82	-7.00	3.04	-8.74	1,690.22	0.07	364,461.35	1,664,234.37	N 39°29'40.40"	W 80°41'23.32"
	3,282.00	3.30	270.15	3,281.76	-8.53	2.95	-11.95	1,780.18	2.79	364,461.27	1,664,231.15	N 39°29'40.40"	W 80°41'23.36"
	3,371.00	5.01	274.97	3,370.52	-12.05	3.30	-18.38	1,868.92	1.95	364,461.51	1,664,224.72	N 39°29'40.41"	W 80°41'23.56"
	3,461.00	6.28	273.82	3,460.08	-16.99	3.99	-27.22	1,958.48	1.44	364,462.22	1,664,215.81	N 39°29'40.41"	W 80°41'23.66"
	3,550.00	7.75	271.35	3,548.41	-22.77	4.30	-38.09	2,046.81	1.68	364,462.62	1,664,205.08	N 39°29'40.41"	W 80°41'23.69"
	3,640.00	8.68	273.33	3,637.49	-29.66	4.84	-50.94	2,138.89	1.08	364,463.15	1,664,177.53	N 39°29'40.41"	W 80°41'23.88"
	3,730.00	10.13	276.66	3,726.28	-38.12	6.15	-65.58	2,224.88	1.72	364,464.47	1,664,177.53	N 39°29'40.42"	W 80°41'24.05"
	3,819.00	12.99	275.61	3,813.46	-46.81	8.04	-83.31	2,311.86	3.22	364,466.36	1,664,159.30	N 39°29'40.43"	W 80°41'24.17"
	3,908.00	17.23	277.64	3,905.64	-52.19	10.70	-105.85	2,398.94	3.64	364,469.01	1,664,137.26	N 39°29'40.46"	W 80°41'24.56"
	3,998.00	19.02	276.70	3,996.31	-78.64	14.08	-132.89	2,484.71	3.12	364,472.40	1,664,110.22	N 39°29'40.49"	W 80°41'24.91"
	4,088.00	21.80	275.55	4,089.71	-96.92	17.37	-163.74	2,568.11	3.16	364,475.69	1,664,079.37	N 39°29'40.52"	W 80°41'25.30"
	4,178.00	20.73	273.63	4,183.59	-115.46	20.00	-196.27	2,651.99	1.42	364,478.31	1,664,046.84	N 39°29'40.54"	W 80°41'25.71"
	4,267.00	21.29	272.99	4,266.67	-132.88	21.72	-228.14	2,735.07	0.76	364,480.04	1,664,014.98	N 39°29'40.57"	W 80°41'26.13"
	4,357.00	19.35	270.27	4,356.99	-149.39	22.93	-259.74	2,818.33	1.84	364,480.85	1,663,983.38	N 39°29'40.58"	W 80°41'26.52"
	4,447.00	16.87	272.46	4,445.58	-165.30	23.28	-290.30	2,903.98	0.83	364,481.58	1,663,952.82	N 39°29'40.55"	W 80°41'26.91"
	4,536.00	19.16	270.74	4,489.47	-180.88	24.10	-320.02	2,987.87	1.03	364,482.42	1,663,923.10	N 39°29'40.57"	W 80°41'27.29"
	4,626.00	20.06	270.65	4,474.24	-196.30	24.47	-350.22	3,072.64	1.00	364,482.78	1,663,892.90	N 39°29'40.57"	W 80°41'27.68"
	4,715.00	19.64	270.26	4,457.96	-211.62	24.71	-380.44	3,158.36	0.49	364,483.33	1,663,862.59	N 39°29'40.57"	W 80°41'28.06"
	4,805.00	20.11	272.99	4,442.85	-227.02	25.35	-410.30	3,241.25	0.81	364,483.56	1,663,832.82	N 39°29'40.57"	W 80°41'28.45"
	4,894.00	21.62	273.54	4,419.79	-260.81	28.34	-472.14	3,409.19	1.71	364,486.65	1,663,770.99	N 39°29'40.59"	W 80°41'28.83"
	4,974.00	21.31	270.69	4,394.55	-278.12	29.56	-505.04	3,492.95	1.21	364,487.67	1,663,738.09	N 39°29'40.59"	W 80°41'29.23"
	5,064.00	20.68	273.83	4,373.68	-293.97	29.23	-537.89	3,578.98	1.21	364,488.57	1,663,708.55	N 39°29'40.58"	W 80°41'29.65"
	5,153.00	19.86	268.91	4,352.12	-308.62	28.45	-567.98	3,660.52	1.18	364,489.01	1,663,675.18	N 39°29'40.58"	W 80°41'30.49"
	5,243.00	19.53	270.31	4,329.53	-323.53	28.25	-598.14	3,745.31	0.54	364,488.56	1,663,645.00	N 39°29'40.57"	W 80°41'30.84"
	5,333.00	18.84	270.03	4,303.99	-339.29	28.44	-627.49	3,830.38	1.10	364,488.65	1,663,615.65	N 39°29'40.57"	W 80°41'31.22"
	5,422.00	17.94	270.45	4,276.51	-352.31	28.45	-655.35	3,914.91	0.89	364,488.77	1,663,587.79	N 39°29'40.57"	W 80°41'31.57"
	5,512.00	17.68	272.44	4,249.15	-366.75	28.15	-683.01	4,000.55	0.76	364,489.04	1,663,561.13	N 39°29'40.57"	W 80°41'31.92"
	5,602.00	18.02	272.23	4,221.88	-381.58	28.69	-710.72	4,086.17	0.17	364,488.59	1,663,532.42	N 39°29'40.55"	W 80°41'32.28"
	5,691.00	18.76	272.91	4,195.77	-397.10	31.58	-739.51	4,170.37	1.97	364,489.89	1,663,503.64	N 39°29'40.58"	W 80°41'32.65"
	5,781.00	20.56	271.78	4,169.46	-413.69	32.84	-770.50						



9,410.00	89.21	150.31	7,477.37	1,492.63	-1,663.28	-242.04	5,975.77	0.88	362,595.14	1,664,001.08	N 39°29'21.93"	W 80°41'26.86"
9,500.00	89.15	149.37	7,476.66	1,582.62	-1,941.09	-196.83	5,977.06	1.04	362,517.34	1,684,046.29	N 39°29'21.16"	W 80°41'26.59"
9,589.00	89.42	149.60	7,479.76	1,671.61	-2,017.76	-151.64	5,976.16	0.40	362,440.67	1,664,091.47	N 39°29'20.81"	W 80°41'24.80"
9,679.00	89.21	148.77	7,480.84	1,761.50	-2,095.45	-107.22	5,975.26	0.30	362,363.99	1,664,138.69	N 39°29'21.85"	W 80°41'24.21"
9,768.00	89.11	150.10	7,482.14	1,850.59	-2,172.47	-61.64	5,980.54	0.58	362,285.90	1,664,181.47	N 39°29'21.83"	W 80°41'23.63"
9,858.00	89.06	149.56	7,483.58	1,940.58	-2,250.27	-16.41	5,981.98	0.59	362,208.18	1,664,226.69	N 39°29'21.63"	W 80°41'23.04"
9,947.00	89.35	150.44	7,484.82	2,029.57	-2,327.34	28.08	5,983.22	1.03	362,131.12	1,664,271.18	N 39°29'21.18"	W 80°41'22.46"
10,037.00	89.15	150.00	7,488.00	2,119.56	-2,405.44	72.78	5,984.40	0.54	362,053.02	1,664,315.88	N 39°29'21.64"	W 80°41'21.87"
10,127.00	89.09	150.16	7,487.38	2,209.55	-2,483.82	116.99	5,985.78	1.30	361,974.64	1,664,360.00	N 39°29'21.84"	W 80°41'21.30"
10,217.00	89.36	149.48	7,488.59	2,299.53	-2,562.02	161.25	5,986.99	1.50	361,896.46	1,664,404.64	N 39°29'21.57"	W 80°41'20.71"
10,306.00	89.55	149.66	7,489.84	2,388.53	-2,638.82	206.49	5,987.94	0.48	361,819.65	1,664,448.58	N 39°29'21.32"	W 80°41'20.13"
10,396.00	89.44	149.56	7,490.24	2,478.52	-2,716.53	251.88	5,988.64	0.35	361,741.95	1,664,494.97	N 39°29'21.35"	W 80°41'19.54"
10,486.00	89.25	150.48	7,491.27	2,568.52	-2,794.47	296.87	5,989.57	1.03	361,664.01	1,664,538.95	N 39°29'21.28"	W 80°41'18.95"
10,576.00	89.08	149.41	7,492.59	2,658.51	-2,872.35	341.95	5,990.59	1.18	361,586.13	1,664,583.03	N 39°29'21.20"	W 80°41'18.36"
10,665.00	89.28	150.12	7,493.85	2,747.50	-2,950.24	387.03	5,991.58	0.83	361,509.25	1,664,628.84	N 39°29'21.12"	W 80°41'17.78"
10,755.00	89.38	150.21	7,494.91	2,837.49	-3,027.30	432.13	5,993.31	0.14	361,431.19	1,664,674.61	N 39°29'21.05"	W 80°41'17.19"
10,844.00	89.38	150.18	7,495.87	2,926.48	-3,104.53	477.27	5,994.27	0.03	361,353.97	1,664,718.94	N 39°29'21.00"	W 80°41'16.60"
10,934.00	89.36	150.17	7,496.88	3,016.48	-3,182.60	522.52	5,995.26	0.02	361,276.90	1,664,763.55	N 39°29'20.95"	W 80°41'16.01"
11,023.00	89.73	150.37	7,497.57	3,105.47	-3,259.89	567.86	5,995.57	0.47	361,199.62	1,664,807.72	N 39°29'20.92"	W 80°41'15.42"
11,113.00	89.62	149.86	7,498.39	3,195.44	-3,337.94	613.23	5,996.48	0.80	361,120.67	1,664,852.70	N 39°29'20.87"	W 80°41'14.87"
11,202.00	89.76	150.09	7,499.39	3,284.47	-3,414.63	658.62	5,997.19	0.17	361,043.89	1,664,897.68	N 39°29'20.81"	W 80°41'14.28"
11,292.00	89.78	149.65	7,499.75	3,374.46	-3,492.45	703.99	5,997.79	0.62	360,968.07	1,664,942.89	N 39°29'20.75"	W 80°41'13.69"
11,381.00	89.78	149.65	7,499.75	3,464.46	-3,570.29	749.00	5,998.15	0.48	360,893.24	1,664,988.09	N 39°29'20.69"	W 80°41'13.10"
11,471.00	89.62	150.03	7,500.22	3,553.46	-3,647.24	794.01	5,998.62	0.33	360,818.41	1,665,033.27	N 39°29'20.63"	W 80°41'12.52"
11,561.00	89.48	150.29	7,500.92	3,642.46	-3,725.31	839.02	5,999.20	0.33	360,743.57	1,665,078.55	N 39°29'20.57"	W 80°41'11.94"
11,651.00	89.64	150.52	7,501.61	3,732.45	-3,803.69	884.03	6,000.00	0.31	360,668.75	1,665,123.83	N 39°29'20.51"	W 80°41'11.36"
11,740.00	89.68	150.50	7,502.13	3,822.45	-3,881.03	929.04	6,000.53	0.06	360,593.91	1,665,169.11	N 39°29'20.44"	W 80°41'10.77"
11,829.00	89.51	150.54	7,502.76	3,911.44	-3,958.51	974.05	6,001.16	0.21	360,519.07	1,665,214.39	N 39°29'20.38"	W 80°41'10.19"
11,919.00	89.70	150.16	7,503.38	4,001.44	-4,036.72	1,019.07	6,001.79	0.07	360,444.23	1,665,259.67	N 39°29'20.31"	W 80°41'09.61"
12,008.00	89.81	150.30	7,503.77	4,091.44	-4,114.94	1,064.08	6,002.42	0.43	360,369.39	1,665,304.95	N 39°29'20.25"	W 80°41'09.02"
12,098.00	89.84	149.99	7,504.29	4,180.43	-4,192.25	1,099.67	6,003.05	0.64	360,294.55	1,665,350.23	N 39°29'20.19"	W 80°41'08.44"
12,188.00	89.64	149.99	7,504.95	4,270.43	-4,270.41	1,144.29	6,003.68	0.82	360,219.71	1,665,395.51	N 39°29'20.13"	W 80°41'07.85"
12,277.00	89.65	150.72	7,505.50	4,359.42	-4,347.76	1,188.30	6,004.31	0.82	360,144.87	1,665,440.79	N 39°29'20.07"	W 80°41'07.27"
12,367.00	89.48	150.36	7,506.18	4,448.42	-4,426.12	1,232.31	6,004.94	0.26	360,070.03	1,665,486.07	N 39°29'20.01"	W 80°41'06.68"
12,457.00	89.81	150.41	7,506.73	4,537.41	-4,504.47	1,276.32	6,005.57	0.36	359,995.19	1,665,531.35	N 39°29'19.95"	W 80°41'06.10"
12,546.00	89.59	149.37	7,507.20	4,626.40	-4,582.05	1,320.46	6,006.20	0.60	359,920.35	1,665,576.63	N 39°29'19.89"	W 80°41'05.51"
12,636.00	89.55	150.88	7,507.87	4,715.39	-4,659.78	1,364.06	6,006.72	0.34	359,845.51	1,665,621.91	N 39°29'19.83"	W 80°41'04.92"
12,726.00	89.42	150.64	7,508.67	4,804.37	-4,737.31	1,408.02	6,007.07	0.30	359,770.67	1,665,667.19	N 39°29'19.77"	W 80°41'04.34"
12,815.00	89.58	150.16	7,509.45	4,893.37	-4,814.69	1,451.98	6,007.85	0.57	359,695.83	1,665,712.47	N 39°29'19.71"	W 80°41'03.75"
12,905.00	89.41	150.45	7,510.24	4,982.36	-4,892.37	1,495.97	6,008.64	0.37	359,621.00	1,665,757.75	N 39°29'19.65"	W 80°41'03.16"
12,994.00	89.31	149.87	7,511.23	5,071.35	-4,970.06	1,540.85	6,009.63	0.66	359,546.15	1,665,803.03	N 39°29'19.59"	W 80°41'02.57"
13,084.00	89.52	151.00	7,512.16	5,160.34	-5,050.34	1,585.25	6,010.56	1.27	359,471.30	1,665,848.31	N 39°29'19.53"	W 80°41'01.98"
13,174.00	89.33	150.66	7,513.07	5,250.33	-5,128.92	1,629.12	6,011.47	0.47	359,396.45	1,665,893.59	N 39°29'19.47"	W 80°41'01.40"
13,263.00	89.49	150.11	7,513.98	5,340.33	-5,206.29	1,673.10	6,012.38	0.64	359,321.60	1,665,938.87	N 39°29'19.41"	W 80°41'00.81"
13,353.00	89.27	150.25	7,514.95	5,430.32	-5,284.98	1,717.09	6,013.35	0.29	359,246.75	1,665,984.15	N 39°29'19.35"	W 80°41'00.22"
13,443.00	89.52	149.60	7,515.83	5,520.32	-5,362.24	1,762.96	6,014.23	0.81	359,171.90	1,666,029.43	N 39°29'19.29"	W 80°41'00.63"
13,532.00	89.67	149.12	7,516.39	5,610.31	-5,439.81	1,808.32	6,014.79	0.54	359,097.05	1,666,074.71	N 39°29'19.23"	W 80°41'00.04"
13,622.00	89.01	149.34	7,517.43	5,700.29	-5,516.14	1,854.36	6,015.83	0.77	359,022.20	1,666,119.99	N 39°29'19.17"	W 80°41'00.45"
13,711.00	89.48	149.88	7,518.60	5,790.28	-5,593.39	1,899.36	6,016.00	0.61	358,947.35	1,666,165.27	N 39°29'19.11"	W 80°41'00.86"
13,801.00	89.22	148.59	7,519.63	5,880.27	-5,670.23	1,944.41	6,016.03	1.47	358,872.42	1,666,210.55	N 39°29'19.05"	W 80°41'00.27"
13,890.00	89.58	149.37	7,520.56	5,970.25	-5,747.49	1,991.28	6,016.85	0.97	358,797.49	1,666,255.83	N 39°29'18.99"	W 80°41'00.68"
13,980.00	89.24	149.66	7,521.48	6,060.24	-5,824.04	2,038.94	6,017.88	0.51	358,722.56	1,666,301.11	N 39°29'18.93"	W 80°41'00.09"
14,069.00	89.18	149.01	7,522.70	6,151.22	-5,900.59	2,082.33	6,021.10	0.74	358,647.63	1,666,346.39	N 39°29'18.87"	W 80°41'00.50"
14,159.00	89.05	148.89	7,523.09	6,241.20	-5,977.69	2,126.74	6,022.49	0.20	358,572.70	1,666,391.67	N 39°29'18.81"	W 80°41'00.91"
14,248.00	89.50	149.44	7,523.16	6,331.17	-6,054.56	2,171.54	6,023.68	0.61	358,497.77	1,666,436.95	N 39°29'18.75"	W 80°41'00.32"
14,338.00	89.37	149.67	7,523.98	6,420.13	-6,130.43	2,220.05	6,024.69	0.60	358,422.84	1,666,482.23	N 39°29'18.69"	W 80°41'00.73"
14,428.00	89.92	149.06	7,524.77	6,510.10	-6,207.40	2,268.66	6,026.17	0.81	358,347.91	1,666,527.51	N 39°29'18.63"	W 80°41'00.14"
14,517.00	89.58	149.22	7,524.71	6,599.07	-6,283.78	2,314.30	6,026.11	0.39	358,272.98	1,666,572.79	N 39°29'18.57"	W 80°41'00.55"
14,607.00	89.83	148.28	7,531.66	6,689.04	-6,361.11	2,359.99	6,026.11	0.34	358,198.05	1,666,618.07	N 39°29'18.51"	W 80°41'00.96"
14,696.00	89.68	148.98	7,533.38	6,778.01	-6,437.49	2,405.98	6,027.78	0.84	358,123.12	1,666,663.35	N 39°29'18.45"	W 80°41'00.37"
14,786.00	89.38	149.35	7,535.15	6,867.98	-6,514.75	2,452.08	6,033.55	0.41	357,948.19	1,666,708.63	N 39°29'18.39"	W 80°41'00.78"
14,875.00	89.81	149.11	7,536.94	6,956.96	-6,591.21	2,497.81	6,035.34	0.28	357,873.26	1,666,753.91	N 39°29'18.33"	W 80°41'00.19"
14,965.00	89.76	149.20	7,538.88	7,045.93	-6,668.46	2,543.74	6,037.28	0.67	357,798.33	1,666,800.19	N 39°29'18.27"	W 80°41'00.60"
15,055.00	89.67	148.62	7,540.88	7,135.89	-6,745.51	2,589.20	6,039.22	0.65	357,723.40	1,666,846.47	N 39°29'18.21"	W 80°41'00.01"
15,144.00	89.63	148.93	7,542.78	7,225.85	-6,822.60	2,634.63	6,041.18	0.42	357,648.47	1,666,892.75	N 39°29'18.15"	W 80°41'00.42"
15,234.00	89.21	149.76	7,544.27	7,315.83	-6,899.01	2,680.22	6,042.67	1.29	357,573.54	1,666,938.03	N 39°29'18.09"	W 80°41'00.83"
15,323.00	89.85	148.66	7,545.78	7,404.80	-6,975.45	2,727.77	6,044.18	0.99	357,498.61	1,666,983.31	N 39°29'18.03"	W 80°41'00.24"
15,413.00	89.90	148.44	7,547.54	7,494.76	-7,052.22	2,774.72	6,045.94	0.26	357,423.68	1,667,028.59	N 39°29'17.97"	W 80°41'00.65"
15,503.00	89.08	148.56	7,548.12	7,584.73	-7,129.35	2,821.86	6,047.52	1				

21,862.00	90.25	150.43	7,546.13	13,943.22	-12,650.73	5,974.73	6,044.53	0.95	351,808.33	1,670,217.48	N 39°27'36.13"	W 80°40'45.90"
21,952.00	90.81	149.81	7,545.30	14,033.21	-12,728.76	6,019.57	6,043.70	0.92	351,730.30	1,670,262.31	N 39°27'35.36"	W 80°40'45.32"
22,042.00	90.78	149.53	7,544.04	14,123.21	-12,806.60	6,064.74	6,042.44	0.13	351,652.47	1,670,307.48	N 39°27'34.60"	W 80°40'43.73"
22,132.00	90.51	149.89	7,542.95	14,213.20	-12,884.46	6,109.66	6,041.35	0.20	351,574.61	1,670,352.60	N 39°27'33.83"	W 80°40'43.14"
22,221.00	90.75	149.86	7,541.90	14,302.19	-12,961.43	6,154.53	6,040.30	0.16	351,497.65	1,670,397.27	N 39°27'33.08"	W 80°40'42.56"
22,310.00	90.81	150.28	7,540.69	14,391.18	-13,038.55	6,199.93	6,039.09	0.48	351,420.53	1,670,441.57	N 39°27'32.32"	W 80°40'41.98"
22,400.00	90.75	149.55	7,539.46	14,481.17	-13,116.42	6,244.04	6,037.86	0.81	351,342.66	1,670,486.78	N 39°27'31.56"	W 80°40'41.39"
22,489.00	90.75	149.98	7,538.30	14,570.17	-13,193.31	6,288.85	6,036.70	0.49	351,265.78	1,670,531.58	N 39°27'30.80"	W 80°40'40.81"
22,579.00	90.81	150.10	7,537.08	14,660.16	-13,271.28	6,333.78	6,035.48	0.15	351,187.62	1,670,576.51	N 39°27'30.04"	W 80°40'40.22"
22,668.00	90.19	149.88	7,536.30	14,749.15	-13,348.35	6,378.30	6,034.70	0.74	351,110.76	1,670,621.02	N 39°27'29.28"	W 80°39'59.64"
22,758.00	90.15	149.72	7,536.03	14,839.15	-13,426.13	6,423.57	6,034.43	0.18	351,032.97	1,670,666.29	N 39°27'28.52"	W 80°39'59.05"
22,847.00	90.35	149.72	7,535.65	14,928.15	-13,502.99	6,468.44	6,034.05	0.23	350,956.12	1,670,711.16	N 39°27'27.77"	W 80°39'58.47"
22,937.00	90.21	149.51	7,535.20	15,018.15	-13,580.63	6,513.96	6,033.60	0.29	350,878.49	1,670,756.68	N 39°27'27.01"	W 80°39'57.88"
23,027.00	90.35	149.50	7,534.76	15,108.14	-13,658.16	6,559.63	6,033.16	0.16	350,800.94	1,670,802.35	N 39°27'26.25"	W 80°39'57.29"
23,116.00	91.65	151.81	7,533.20	15,197.12	-13,735.74	6,603.24	6,031.60	2.97	350,723.39	1,670,848.95	N 39°27'25.48"	W 80°39'56.71"
23,206.00	90.69	149.84	7,531.44	15,287.08	-13,814.30	6,647.10	6,029.64	2.48	350,644.83	1,670,894.81	N 39°27'24.71"	W 80°39'56.14"
23,295.00	90.66	149.84	7,530.46	15,376.08	-13,891.24	6,691.82	6,028.86	0.08	350,567.89	1,670,940.52	N 39°27'23.96"	W 80°39'55.58"
23,385.00	91.35	150.44	7,528.88	15,466.06	-13,969.28	6,736.62	6,027.28	1.02	350,489.85	1,670,987.32	N 39°27'23.19"	W 80°39'54.97"
23,475.00	92.01	151.21	7,526.24	15,556.01	-14,047.83	6,780.47	6,024.64	1.12	350,411.51	1,671,033.17	N 39°27'22.42"	W 80°39'54.40"
23,564.00	91.39	149.38	7,523.60	15,644.97	-14,125.10	6,824.55	6,022.00	2.17	350,334.05	1,671,079.25	N 39°27'21.66"	W 80°39'53.83"
23,654.00	91.48	149.63	7,521.35	15,734.94	-14,202.63	6,870.20	6,019.75	0.29	350,256.52	1,671,125.90	N 39°27'20.90"	W 80°39'53.23"
23,744.00	91.53	149.72	7,518.99	15,824.90	-14,280.28	6,915.63	6,017.39	0.11	350,178.67	1,671,172.63	N 39°27'20.14"	W 80°39'52.64"
23,834.00	91.54	149.45	7,516.58	15,914.87	-14,357.87	6,961.18	6,014.98	0.30	350,101.29	1,671,219.88	N 39°27'19.38"	W 80°39'52.05"
23,923.00	91.50	149.52	7,514.21	16,003.83	-14,434.51	7,006.36	6,012.61	0.09	350,024.65	1,671,267.65	N 39°27'18.63"	W 80°39'51.46"
24,013.00	91.45	149.63	7,511.90	16,093.80	-14,512.10	7,051.92	6,010.30	0.14	349,947.07	1,671,315.60	N 39°27'17.87"	W 80°39'50.86"
24,102.00	91.35	149.48	7,509.73	16,182.77	-14,588.81	7,096.99	6,008.13	0.20	349,870.37	1,671,363.68	N 39°27'17.12"	W 80°39'50.28"
24,192.00	91.35	149.80	7,507.61	16,272.75	-14,666.36	7,142.61	6,006.01	0.13	349,792.81	1,671,411.95	N 39°27'16.36"	W 80°39'49.68"
24,282.00	91.50	149.61	7,505.27	16,362.73	-14,742.92	7,189.92	6,004.67	0.29	349,716.26	1,671,460.60	N 39°27'15.60"	W 80°39'49.33"
24,272.00	91.30	149.61	7,505.59	16,352.72	-14,735.34	7,183.07	6,003.99	0.01	349,723.84	1,671,425.75	N 39°27'15.68"	W 80°39'49.16"

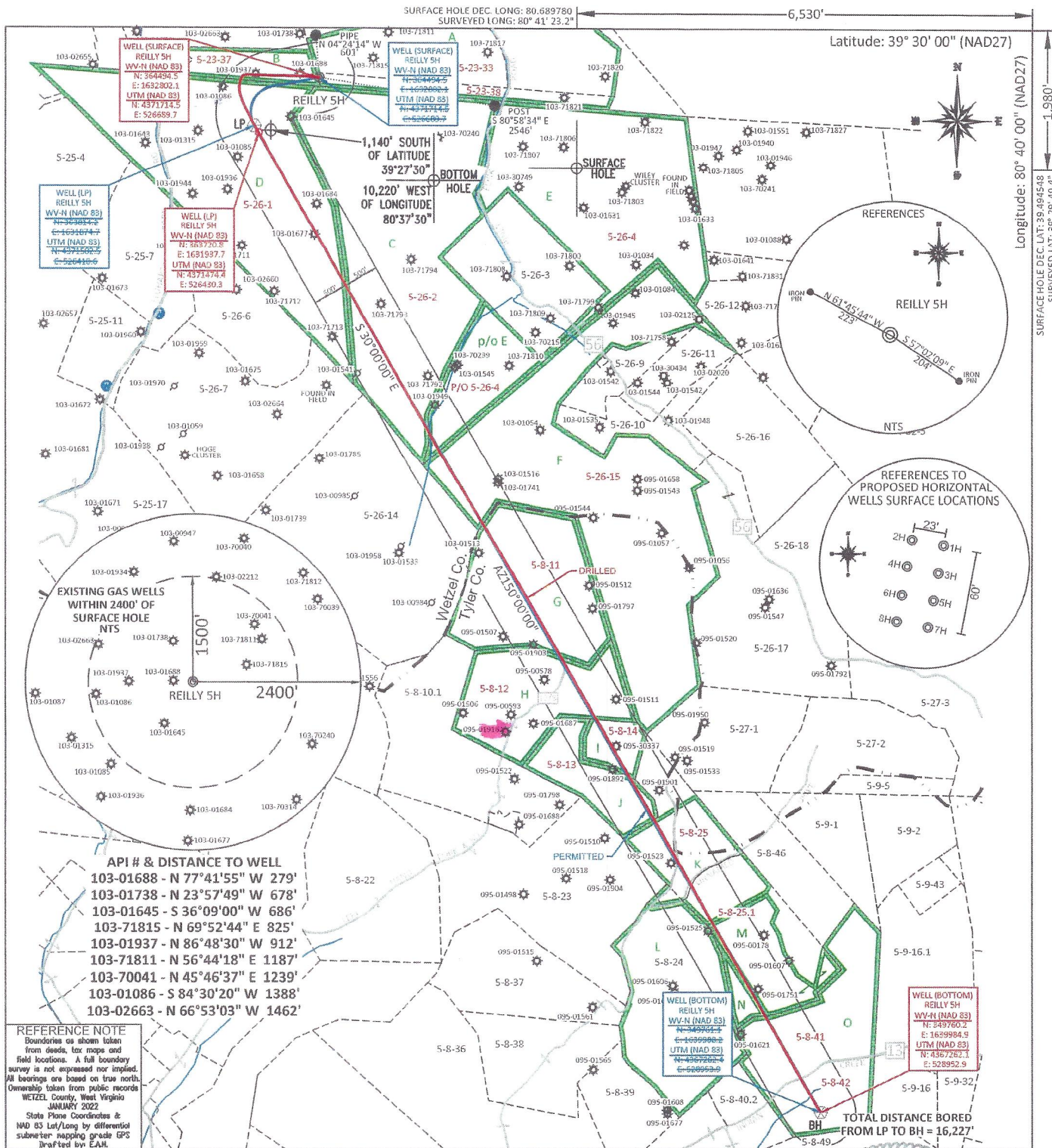
Survey Type: DefinitiveSurvey

Survey Error Model: ISCWSA0 2 sigma

Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	680.000	Act Stns	17.500	13.375		A001Mb_MWD	Original Borehole / Tribune Resources N GRN WZ 5H MWD 0ft to 24272R MD
	1	680.000	2,450.000	Act Stns	12.250	9.625		A001Mb_MWD	Original Borehole / Tribune Resources N GRN WZ 5H MWD 0ft to 24272R MD
	1	2,450.000	6,687.000	Act Stns	8.750	5.500		A001Mb_MWD	Original Borehole / Tribune Resources N GRN WZ 5H MWD 0ft to 24272R MD
	1	6,687.000	24,272.000	Act Stns	8.500	5.500		B006Mb_MWD+HGRF	Original Borehole / Tribune Resources N GRN WZ 5H MWD 0ft to 24272R MD





API # & DISTANCE TO WELL

103-01688	- N 77°41'55" W 279'
103-01738	- N 23°57'49" W 678'
103-01645	- S 36°09'00" W 686'
103-71815	- N 69°52'44" E 825'
103-01937	- N 86°48'30" W 912'
103-71811	- N 56°44'18" E 1187'
103-70041	- N 45°46'37" E 1239'
103-01086	- S 84°30'20" W 1388'
103-02663	- N 66°53'03" W 1462'

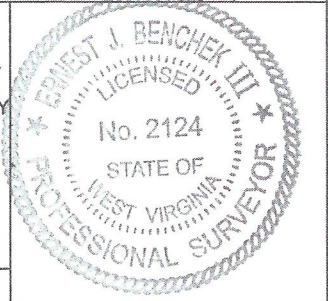
**REFERENCE NOTE**  
 Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records WETZEL County, West Virginia JANUARY 2022  
 State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS located by E.A.M.

FILE #: TRB1  
 DRAWING #: 3055  
 SCALE: PLAT: 1" = 2000'  
 THICK: 1" = 2000'

PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING GRADE GPS

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

Signed: *[Signature]*  
 L.L.S. #2124 : Ernest J. Benchek III



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

Well Type:  Oil  Waste Diposal  Production  Deep  
 Gas  Liquid Injection  Storage  Shallow

WATERSHED: FISHING CREEK

COUNTY/DISTRICT: WETZEL / GREENE QUADRANGLE: CENTER POINT  
 SURFACE OWNER: J.S. BOOTH ESTATE AND DALLISON LUMBER ACREAGE: 21.00 +/-  
 OIL & GAS ROYALTY OWNER: JAMES K. BOOTH & JERRY MARTIN BOOTH ACREAGE: 1,434.286 +/-  
 LEASE NUMBERS: \_\_\_\_\_

DATE: NOVEMBER 10, 2023  
 OPERATOR'S WELL #: Reilly N GRN WZ 5H  
 API WELL #: 47 103 03092  
 STATE COUNTY PERMIT  
 AS-BUILT ELEVATION: 1,474'

DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
 PLUG OFF FORMATION  PERFORATE NEW FORMATION  PLUG & ABANDON   
 CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY): \_\_\_\_\_

TARGET FORMATION: MARCELLUS DRILLED DEPTH: TVD: 7,506' TMD: 24,272'  
 WELL OPERATOR: TRIBUNE RESOURCES, LLC DESIGNATED AGENT: HARMAN BROWN  
 ADDRESS: 3861 AMBASSADOR CAFFERY PARKWAY SUITE 600 ADDRESS: 18396 MOUNTAINEER HIGHWAY  
 CITY: LAFAYETTE STATE: LA ZIP CODE: 70503 CITY: WILEYVILLE STATE: WV ZIP CODE: 26581

04/19/2024

*[Handwritten initials]*



PROPERTY OWNER INDEX	
5-23-38	J S BOOTH ESTATE
5-23-33	J S BOOTH ESTATE
5-23-37	BERYL FLUHARTY ET AL
5-26-1	STATE OF WEST VIRGINIA
5-26-2	STATE OF WEST VIRGINIA
5-26-4	STATE OF WEST VIRGINIA
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04/19/2024

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 DRAWING #: 3055  
 SCALE: N/A

DATE: NOVEMBER 10, 2023  
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 API WELL #: 47 103 03092  
 STATE COUNTY PERMIT