

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

API 47-103-03100 County Wetzel District Green
Quad Pine Grove, WV Pad Name Wiley Pad Field/Pool Name _____
Farm name Coastal Lumber Company Well Number WILEY N GRN WZ 3H
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 369906.0 Easting 1632235.3
Landing Point of Curve Northing 369394.3 Easting 1632027.9
Bottom Hole Northing 380894.0 Easting 1637102.6

Elevation (ft) 1,286.8' 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 05/24/2019 Date drilling commenced 07/25/2019 Date drilling ceased 08/07/2019
Date completion activities began 9/15/2019 Date completion activities ceased 12/19/2019
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

Reviewed by: DMH
Date: 7/7/20

API 47-103 - 03100

Farm name Coastal Lumber Company

Well number WILEY N GRN WZ 3H

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"	100'	New	J-55/98		Y
Surface	17-1/2"	13-3/8"	1143'	New	J-55/54.5		Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	3390'	New	J-55/40		Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"	5-1/2"	17664'	New	P-110/20		
Tubing							
Packer type and depth set							

Comment Details Full circulation and good returns on all strings and cement jobs.

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	Class A	176		1.21	213	Surface	N/A
Surface	Class A	989	15.6	1.19	1177	Surface	17.5
Coal							
Intermediate 1	Class A	1106	15.2/15.6	1.25/1.18	1353	Surface	8
Intermediate 2							
Intermediate 3							
Production	Class A	3737	14.5	1.17	4372	3995	
Tubing							

Drillers TD (ft) 17674'

Loggers TD (ft) 17674' MD

Deepest formation penetrated Marcellus

Plug back to (ft) _____

Plug back procedure _____

Kick off depth (ft) 6700

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 - every three joints.

Intermediate - every three joints.

Production - every three joints from TD to KOP, every five 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 _____

API 47- 103 - 03100 Farm name Coastal Lumber Company Well number WILEY N GRN WZ 3H

PRODUCING FORMATION(S)	DEPTHS		
Marcellus	7225	TVD	7509 MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2811 psi Bottom Hole _____ psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 12638 mcfpd Oil 125 bpd NGL 0 bpd Water 165 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 ₂ 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	7047	7205	Shale/Organic Shale, Natural Gas and Salt Water
Geneseo	7105	7142	7205	7271	Organic Shale, Natural Gas and Salt Water
Tully	7142	7157	7271	7300	Limestone, Saltwater
Hamilton	7157	7225	7300	7509	Shale/Organic Shale, Natural Gas and Salt Water
Marcellus	7225	Not Reached	7509	Not Reached	Organic Shale, Natural Gas and Salt Water
Onondaga	Not Reached	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 Excellence Logging
Address 7136 S. Yale Ave. Suite 414 City Tulsa State OK Zip 74136

Cementing Company BJ Services
Address 88 Heckmans Gap Rd City Mill Hall State PA Zip 17751

Stimulating Company BJ Services
Address 88 Heckmans Gap Rd City Mill Hall State PA Zip 17751

Please insert additional pages as applicable.

Completed by LEE L. LAWSON Telephone 337-769-4064
Signature [Signature] Title REGULATORY/HSE DIRECTOR Date _____

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

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Energy Administration

**PERFORATION RECORD
WILEY N GRN WZ 3H**

Stage No.	Perforation Date	Perforated from (MD ft.)	Perforated to (MD ft.)	Number of Perforations	Formations
1	10/11/2019	17542	17386	40	Marcellus
2	10/15/2019	17347	17191	40	Marcellus
3	10/16/2019	17158	16993	48	Marcellus
4	10/17/2019	16960	16795	48	Marcellus
5	10/18/2019	16762	16597	48	Marcellus
6	10/19/2019	16564	16399	48	Marcellus
7	10/20/2019	16366	16201	48	Marcellus
8	10/22/2019	16168	16003	48	Marcellus
9	10/23/2019	15970	15805	48	Marcellus
10	10/24/2019	15771	15607	48	Marcellus
11	10/29/2019	15574	15409	48	Marcellus
12	10/31/2019	15376	15211	48	Marcellus
13	11/3/2019	15178	15013	48	Marcellus
14	11/4/2019	14980	14815	48	Marcellus
15	11/5/2019	14782	14617	48	Marcellus
16	11/6/2019	14578	14419	48	Marcellus
17	11/7/2019	14386	14224	48	Marcellus
18	11/8/2019	14188	14023	48	Marcellus
19	11/9/2019	13990	13825	48	Marcellus
20	11/10/2019	13792	13627	48	Marcellus
21	11/12/2019	13594	13429	48	Marcellus
22	11/12/2019	13393	13231	48	Marcellus
23	11/14/2019	13198	13033	48	Marcellus
24	11/15/2019	12997	12835	48	Marcellus
25	11/15/2019	12802	12637	48	Marcellus
26	11/17/2019	12604	12439	48	Marcellus
27	11/18/2019	12404	12241	48	Marcellus
28	11/19/2019	12208	12043	48	Marcellus
29	11/20/2019	12010	11845	48	Marcellus
30	11/20/2019	11812	11647	48	Marcellus
31	11/23/2013	11614	11449	48	Marcellus
32	11/24/2019	11417	11251	48	Marcellus
33	11/25/2019	11218	11053	48	Marcellus
34	11/25/2019	11020	10855	48	Marcellus
35	11/27/2019	10820	10657	48	Marcellus
36	11/28/2019	10624	10459	48	Marcellus
37	11/29/2019	10426	10261	48	Marcellus
38	11/30/2019	10228	10064	48	Marcellus
39	12/1/2019	10030	9865	48	Marcellus
40	12/1/2019	9832	9667	48	Marcellus
41	12/3/2019	9634	9469	48	Marcellus
42	12/3/2019	9436	9269	48	Marcellus

**PERFORATION RECORD
WILEY N GRN WZ 3H**

Stage No.	Perforation Date	Perforated from (MD ft.)	Perforated to (MD ft.)	Number of Perforations	Formations
43	12/6/2019	9238	9073	48	Marcellus
44	12/8/2019	9040	8879	48	Marcellus
45	12/9/2019	8842	8677	48	Marcellus
46	12/10/2019	8644	8477	48	Marcellus
47	12/11/2019	8446	8281	48	Marcellus
48	12/12/2019	8248	8083	48	Marcellus
49	12/13/2019	8050	7885	48	Marcellus
50	12/14/2019	7852	7664	48	Marcellus

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**STIMULATION RECORD
WILEY N GRN WZ 3H**

Stage No.	Stimulation Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	10/14/2019	74.5	8762	9205	397574	7796	N/A
2	10/15/2019	70.2	8518	9092	398332	10374	N/A
3	10/16/2019	78.6	8567	9004	393717	9151	N/A
4	10/17/2019	85.6	8695	9171	401016	8307	N/A
5	10/19/2019	90.3	8750	9215	399536	8154	N/A
6	10/19/2019	88	8829	9249	403201	8148	N/A
7	10/21/2019	90.4	8465	8849	402674	8261	N/A
8	10/22/2019	89.6	8445	8834	400321	8258	N/A
9	10/23/2019	87	8795	9239	400937	8132	N/A
10	10/29/2019	91.3	8705	9116	399896	8256	N/A
11	10/31/2019	89.9	8700	9086	388918	8116	N/A
12	11/1/2019	89.5	8821	9251	407784	8107	N/A
13	11/3/2019	88	8697	9272	406054	8166	N/A
14	11/5/2019	90.4	8607	9223	402055	8125	N/A
15	11/6/2019	91.4	8929	9272	400434	8104	N/A
16	11/7/2019	83.7	8996	9408	353548	8971	N/A
17	11/8/2019	78.9	8667	9277	398446	8213	N/A
18	11/9/2019	93.5	8731	8969	399852	7108	N/A
19	11/10/2019	91.6	8653	9101	400632	7274	N/A
20	11/11/2019	92.1	8728	9059	402220	7172	N/A
21	11/13/2019	91.2	8404	8881	400706	7204	N/A
22	11/13/2019	90.3	8366	8366	403337	7310	N/A
23	11/14/2019	90.4	8557	8968	402155	7132	N/A
24	11/15/2019	89.4	8636	8982	400959	7148	N/A
25	11/17/2019	94.1	8681	8977	400807	6997	N/A
26	11/18/2019	95.5	8843	9173	408126	7070	N/A
27	11/19/2019	95.2	8487	8882	402704	6959	N/A
28	11/20/2019	94.4	8496	8923	401500	7206	N/A
29	11/20/2019	91.4	8559	9024	401087	7232	N/A
30	11/23/2019	88.7	7713	8162	399964	7242	N/A
31	11/24/2019	92.2	8389	9048	400361	7114	N/A
32	11/24/2019	97	8266	8511	402235	7148	N/A
33	11/25/2019	95	8368	8644	399610	7180	N/A
34	11/26/2019	94.4	8300	8761	399623	7113	N/A
35	11/27/2019	95.8	8282	8744	400022	7132	N/A
36	11/28/2019	96.1	8292	8737	401178	7003	N/A
37	11/29/2019	96.2	8250	8583	400586	7491	N/A
38	11/30/2019	93.5	7942	8358	403319	7142	N/A
39	12/1/2019	93	8090	8744	401909	7235	N/A
40	12/2/2019	95.7	7769	8180	403237	7192	N/A

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**STIMULATION RECORD
WILEY N GRN WZ 3H**

Stage No.	Stimulation Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
41	12/3/2019	89.4	7683	8065	401018	8237	N/A
42	12/4/2019	90.6	7476	7792	402270	6998	N/A
43	12/8/2019	93.7	7595	7903	403907	7156	N/A
44	12/9/2019	94.9	7458	8022	405169	7131	N/A
45	12/10/2019	93.3	7259	7886	401464	7071	N/A
46	12/11/2019	94.8	7304	8221	402904	7180	N/A
47	12/12/2019	95.4	7139	7745	403070	7137	N/A
48	12/13/2019	99.2	7388	8220	401646	6974	N/A
49	12/13/2019	97.2	7238	8492	400662	6983	N/A
50	12/14/2019	94.8	7360	8103	400463	7087	N/A

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	10/14/2019
Job End Date:	12/14/2019
State:	West Virginia
County:	Wetzel
API Number:	47-103-03100-00-00
Operator Name:	Tribune Resources, LLC
Well Name and Number:	GRNWZ3H
Latitude:	39.50946400
Longitude:	-80.69186400
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,000
Total Base Water Volume (gal):	15,027,308
Total Base Non Water Volume:	0



Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
FraCare SI-01	BJ Services	Scale Inhibitor					
Water	Operator	Carrier		Listed Below			
				Listed Below			

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HCl, 5.1 - 7.5%	BJ Services	Acidizing		Listed Below			
FRW-15A Prime	BJ Services	Friction Reducer		Listed Below			
ResCare IC 300L	BJ Services	Iron Control		Listed Below			
BIOC11139A	BJ Services	Biocide		Listed Below			
Sand, White	BJ Services	Proppant		Listed Below			
FraCare Bren C - III NE	BJ Services	Scale Inhibitor		Listed Below			
FRW-18	BJ Services	Friction Reducer		Listed Below			
Cl-14	BJ Services	Corrosion Inhibitor		Listed Below			
Calcium Chloride	BJ Services	Salts		Listed Below			

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ThinFrac MP	BJ Services	Friction Reducer		Listed Below			
				Listed Below			
GW-3LDF	BJ Services	Gelling Agent		Listed Below			
Items above are Trade Names with the exception of Base Water. Items below are the individual ingredients.							
			Water	7732-18-5	100.00000	85.25773	
			Crystalline Silica (Quartz)	14808-60-7	100.00000	13.70647	
			Water	7732-18-5	100.00000	0.88250	
			Hydrochloric Acid	7647-01-0	7.50000	0.06621	
			Acrylamide Modified Acrylic Polymer	Trade Secret	60.00000	0.03217	
			Petroleum distillates	64742-47-8	30.00000	0.01609	
			Distillates (petroleum), hydrotreated light	64742-47-8	30.00000	0.00466	
			Guar Gum	9000-30-0	60.00000	0.00397	
			Citric Acid	77-92-9	60.00000	0.00386	
			Benzyl-(C12-C16 Alkyl)-Dimethyl-Ammonium Chloride	68424-85-1	30.00000	0.00284	
			Sodium Chloride	7647-14-5	5.00000	0.00268	
			Sorbian monooleate	Trade Secret	5.00000	0.00268	
			Sorbitan monooleate ethoxylated	Trade Secret	5.00000	0.00268	
			Alcohols ethoxylated	Trade Secret	5.00000	0.00268	
			Petroleum Distillates	64742-47-8	30.00000	0.00200	
			Paraffinic Petroleum Distillate	64742-55-8	30.00000	0.00199	
			Methanol	67-56-1	100.00000	0.00148	
			Organo phosphorus salt	Trade Secret	5.00000	0.00130	

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						111-30-8	10.00000	0.00095	
		Glutaraldehyde							
		Purified Water				7732-18-5	99.20000	0.00092	
		Alcohols, C11-14-iso-, C13-rich, ethoxylated				78330-21-9	4.90000	0.00076	
		Acetic acid				127-08-2	1.00000	0.00054	
		Ethanol				64-17-5	5.00000	0.00047	
		Polyoxyalkylenes				68951-67-7	30.00000	0.00044	
		Calcium Chloride				10043-52-4	98.00000	0.00037	
		Cyrstalline Silica, Quartz (SiO2)				14808-60-7	5.00000	0.00033	
		1-Butoxy-2-Propanol				5131-66-8	5.00000	0.00033	
		Isotridecanol, ethoxylated				9043-30-5	5.00000	0.00033	
		Fatty Acids				61790-12-3	10.00000	0.00015	
		Modified Thiourea Polymer				68527-49-1	7.00000	0.00010	
		Propargyl Alcohol				107-19-7	5.00000	0.00007	
		Olefin				64743-02-8	5.00000	0.00007	
		Acetic acid, Potassium Salt				64-19-7	0.10000	0.00005	
		Tetrasodium EDTA				64-02-8	0.10000	0.00005	
		Formaldehyde				50-00-0	1.00000	0.00002	
		Hydrochloric acid				7647-01-0	1.00000	0.00002	
		Poly (acrylamide-co-acrylic acid) partial sodium salt				62649-23-4	30.00000	0.00001	
		2-Butoxy-1-Propanol				15821-83-7	0.10000	0.00001	
		Sodium Benzoate				532-32-1	0.40000	0.00000	
		Potassium Sorbate				24634-61-5	0.20000	0.00000	
		Hemicellulase				9025-56-3	0.20000	0.00000	
		Ethoxylated Alcohol				68551-12-2	2.00000	0.00000	
		Ammonium Chloride				12125-02-9	3.00000	0.00000	
		Sorbitan Monooleate				1338-43-8	0.50000	0.00000	
		Oleamide DEA				93-83-4	2.00000	0.00000	

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				Polyoxyethylene Sorbitan Monooleate	9005-65-6	0.50000	0.00000
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* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

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

*** If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

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)

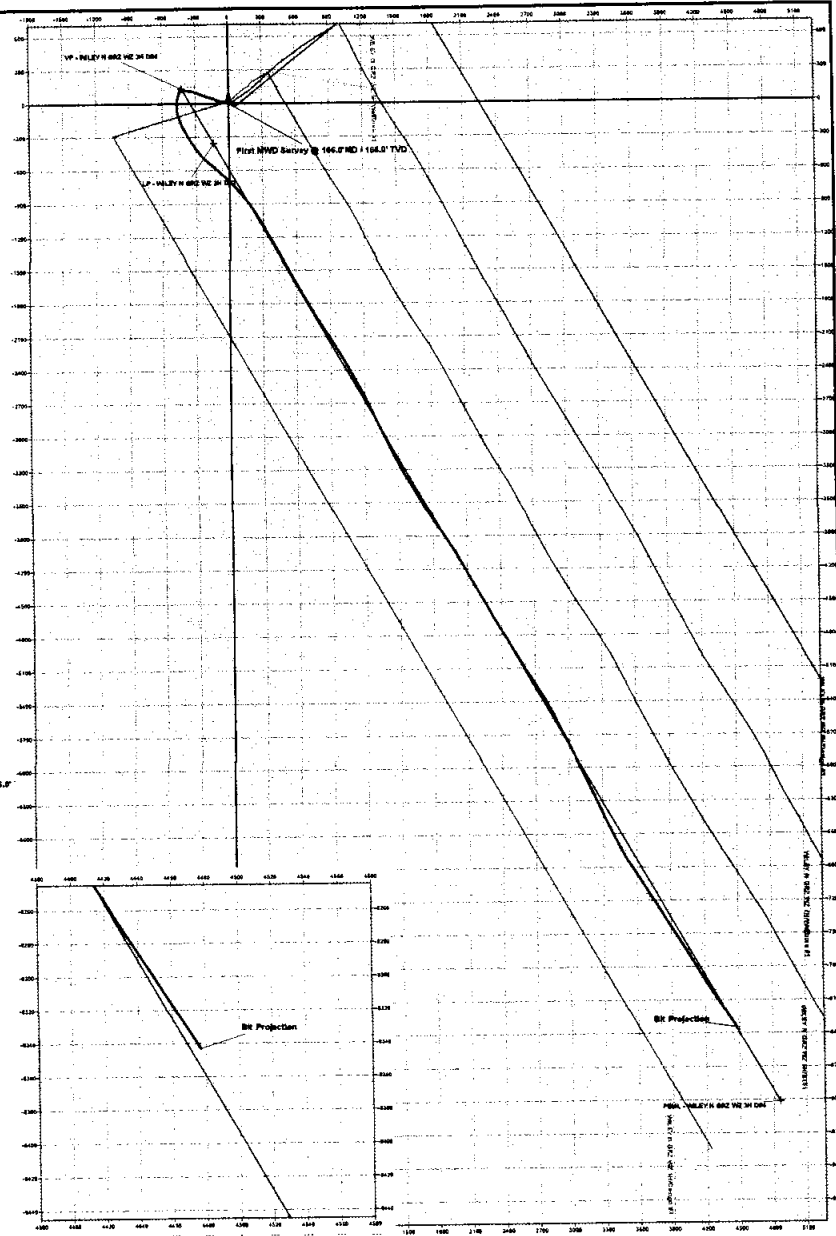
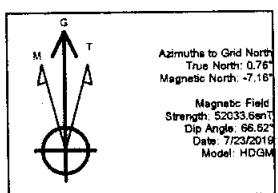
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 U.S. DEPARTMENT OF
 LABOR

Company Name: Tribune Resources
 WILEY N GRZ WZ 3H
 Wetzel CO., WV
 Rig: H&P #471
 Created By: Brandon Salazar
 Date: 8/4/2018

WILEY N GRZ WZ 3H
 Wetzel CO., WV
 Q191285 & AM-191118
 Design #4



TRIBUNE
 RESOURCES



ANNOTATIONS

MD	Inc	Azi	TVD	+H&S	+E.W	Vsac	Departure	Annotation
166.0	1.87	252.19	166.0	1.1	-1.1	31.8	1.5	First MWD Survey @ 166.0' MD / 166.0' TVD
16899.0	96.90	147.12	7346.8	-8343.8	4477.2	9483.9	19361.8	BK Projection

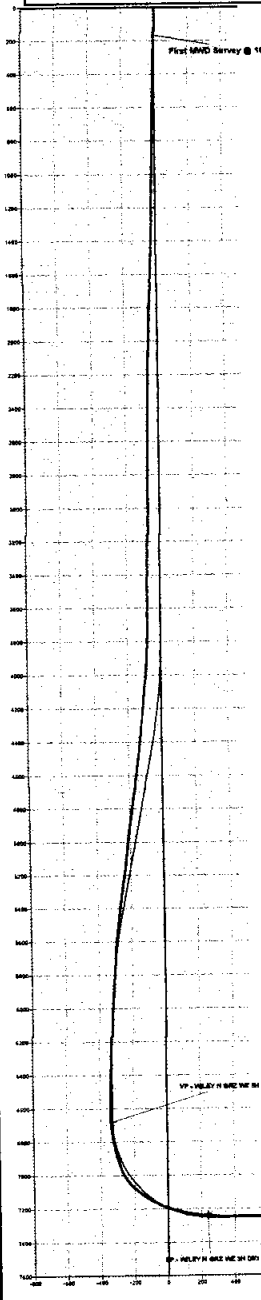
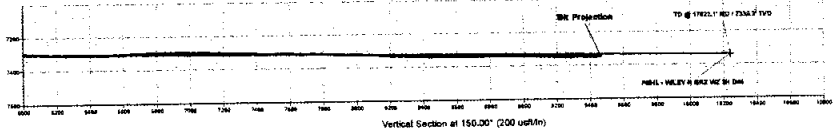
PROJECT DETAILS: Wetzel CO., WV
 Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: West Virginia Northern Zone
 System Datum: Mean Sea Level

WELL DETAILS: WILEY N GRZ WZ 3H

+H&S	+E.W	Northing	Ground Level	Easting	1297.0	Latitude	Longitude
0.0	0.0	388978.75	163784.93	30° 30' 33.776 N	80° 41' 37.369 W		

DEPTH ANNOTATIONS

MD	Inc	Azi	TVD	+H&S	+E.W	Vsac	Departure	Annotation
3768.8	0.90	8.00	3768.0	0.1	0.0	0.0	0.0	End of 2nd TD
4518.1	13.00	287.45	4512.2	28.3	-82.1	-71.9	97.8	End of 1st TD / 2nd TD Am
5478.1	14.90	287.45	5467.8	102.8	-218.1	-218.9	546.0	Drop 2nd TD
6228.8	0.90	8.00	6178.1	133.0	-223.2	-228.8	443.8	End of 3rd TD
6728.8	0.90	0.00	6727.1	133.0	-223.2	-228.8	443.8	End of 3rd TD
7823.8	96.90	148.00	7352.0	-358.8	138.2	228.8	11008.4	End of 3rd TD / 1st TD Am
17022.1	96.90	148.00	7328.0	-8017.2	4887.7	10228.0	11008.4	TD @ 17022.1' MD / 7328.0' TVD



CREATED BY: BRUNO SALAZAR
 JUN 20 2018
 E-1

Vertical Section at 150.00' (200 udf/in)

OPERATOR		Date: 06/13/20	
EXLOG EXCELLENCE LOGGING	Tribune Resources Wiley N GRN WZ 3H Wetzel Co., WV H&P 471		Day: Saturday
			Spud Date: 07/24/19
		Days Drillin 5	
		Report Time 5:00 AM	
CONTACT INFORMATION			
Loggers:	Chuck Niederst Alex Drunkenmiller Edward Gravatt	cniederst@exlog.com adrunkenmiller@exlog.com egravatt@exlog.com	Cell:(412) 999-##### Cell:(918) 710-
Logger Supervisor:			
Geologist:			
RECENT DRILLING ACTIVITY		MUD CHECK	
Days logging	5	Operation	DRILL
Hole Depth	11,565' MD	Feet	3,288'
Bit Depth	11,565' MD	Avg. ROP	246 ft/hr
Drig hours	69. hrs	Lag Depth	11,377' MD
Bit hours		Max CG	1,789u
Bkgnd Gas	1,361u	Max Cement Gas	
Max Gas	1,883u	Trip Gas	
Trap Test	298u	Depth of Last Report	8,089' MD
Depth	9,982'	330	
WT	12.7	28,828	
VIS	60	4.9@250	
PV	27		
YP	11		
GELS	8/14/26		
CK	1		
H2O	24.00%		
OIL	51.50%		
SOL	24.50%		
CL	51.000		
EX. LIME	4.9		
DRILLING VARIABLES			
Bit #4, Size: 8.75", Type: PDC, Provider: SECURITY, S/N: 13222708, Jets:			
WOB	31.6K	RPM	100
SPP	4,571	SPM	72/78/75
SURVEY	MD 11440' TVD 7282.6' AZM 148.9 INCL 91.0		
LITHOLOGY	LOWER MARCELLUS 11200' - 11290' MD: 100% SH: OCC DRKGY - GYSHBLK, PRED SUBBLKY TO BLKY, FN TO SMTH TXT, SFT TO BRIT.		
FORMATION TOP CORRELATION			
FORMATION	PROGNOSIS	CORRELATION	
Big Injun	2,355 TVD	EPL	
Big Injun Base	2,555 TVD	EPL	
Berea	2,915 TVD	EPL	
Gordon	3,135 TVD	EPL	
Gordon Base	3220' TVD	EPL	
Middlesex	7,000 TVD	7044' MD/ 6995' TVD	
Geneseo	7,109 TVD	7210' MD / 7108' TVD	
Tully	7,144 TVD	7275' MD / 7144' TVD	
Hamilton	7,160 TVD	7306' MD / 7160' TVD	
Marcellus	7,227 TVD	7520' MD / 7227' TVD	
Purcell	7,242 TVD	7542' MD / 7231' TVD	
Lower Marcellus	7,247 TVD	7552' MD / 7233' TVD	
Basal Marcellus	N/A	N/A	
Onondaga	7,277 TVD	TBD	
SHOWS	Before	During	Days of 5
Depth '	ROP		Days of 3
	Gas		HASPS: -
Depth '	ROP		Trailer #: HD12
	Gas		odhound #:
COMMENTS			

RECEIVED
Office of Oil and Gas
JUN 29 2020
WV Department of
Environmental Protection

WR-36
Rev. 5/08

Date: _____
Operators Well Number: WILEY N GRN WZ 3H
API Well No: 47-103 - 03100

**State of West Virginia
Department of Environmental Protection
Office of Oil and Gas**

**Well Operator's Report of
Initial Gas-Oil Ratio**

Well Operator TRIBUNE RESOURCES, LLC
Address 3861 AMBASSADOR CAFFERY PARKWAY STE. 600
LAFAYETTE, LA 70503

Designated Agent HARMAN BROWN
Address 18396 MOUNTAINEER HIGHWAY
WILEYVILLE, WV 26581

Geological Target Formation: MARCELLUS Depth 7223 feet
Perforation Interval _____ feet

Guidelines for testing:

1. A minimum of gas vented or flared.
2. A 24 hour pre-flow into pipelines or tanks.
3. Uniform producing rate during the 24 hour test per test period.
4. Measurement standards as for Form WR-39, "Report of Annual Production" (see 35CSR4-15)
5. Separate Form WR-36 for each producing formation in a multiple completion.

TEST DATA

Start of Test Date 3/13/2020		Time 10:00 am		End of Test Date 3/14/2020		Time 10:00 am		Duration of Test 24 hr	
Tubing Pressure 2794 psig		Casing Pressure 3192 psig		Separator Pressure 558 psig		Separator Temperature 86.4 F			
Oil Production During Test 125		Gas Production During Test 12638		Water Production During Test 165		-Salinity 90962			
Oil Gravity 70.3		API		Producing Method (flowing, pumping, gas lift etc.) Flowing					

GAS PRODUCTION

Measurement Method Flange Tap <input checked="" type="checkbox"/> Pipe Tap <input type="checkbox"/> L-10 <input type="checkbox"/>			Positive Choke <input checked="" type="checkbox"/>		
			Positive flow prover <input type="checkbox"/>		
Orifice diameter 2"		Pipe Diameter (inside) 2.90"		Nominal Choke Size inches 28/64	
Differential Pressure range 0-1500		Max. Static pressure range 0-800		Prover and Orifice diameter - inches 2"	
Differential			Static		
Gas Gravity (Air = 1.0) Measured .7103 Estimated		Flowing Temperature 90.8 F		Gas Temperature 86.4 F	
24 Hour Coefficient		24 Hour coefficient pressure PSIA			

TEST RESULTS

Daily Oil 125		Daily Water 165		Daily Gas 12638		Gas-Oil Ratio 101104 scf	
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TRIBUNE RESOURCES, LLC

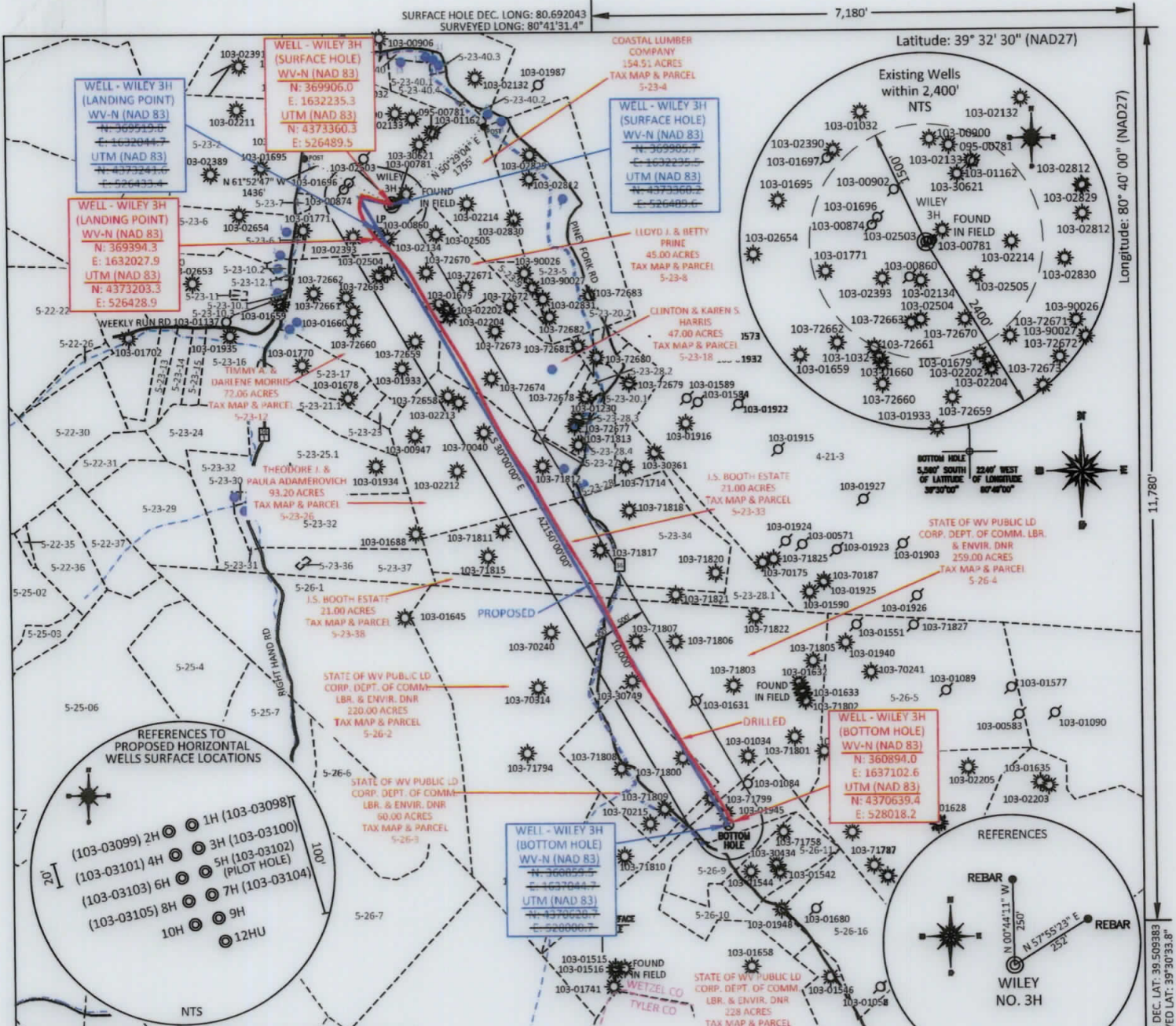
BY LEE L. LAWSON

Well Operator

ITS: REGULATORY/HSE DIRECTOR


WV Department of Environmental Protection

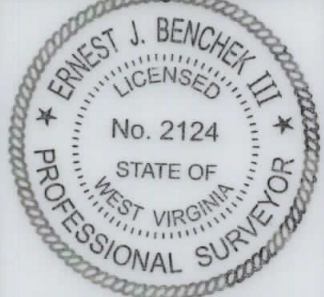
JUN 29 2020



API # & DISTANCE TO WELL	
103-00900	N 02°32'00" E 1317'
103-02133	N 13°48'02" E 1274'
095-00781	N 29°20'04" E 1192'
103-01162	N 31°16'52" E 1192'
103-00902	N 31°08'48" W 783'
103-30621	N 25°03'47" E 958'
103-01696	N 63°02'37" W 701'
FOUND IN FIELD	N 53°48'23" E 258'
103-00781	N 74°17'48" E 80'
103-00874	N 72°22'11" W 731'
103-02503	N 66°38'32" E 30'
103-01771	S 74°12'42" W 1350'
103-02214	N 89°46'18" E 1093'
103-00860	S 26°03'05" W 497'
103-02393	S 50°54'40" W 734'
103-02505	S 55°30'57" E 768'
103-02134	S 08°13'42" W 499'
103-02504	S 04°29'57" W 994'
103-72663	S 11°01'28" W 1051'
103-72670	S 26°13'39" E 1101'

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: 
 L.L.S. #2124 : Ernest J. Benckek III



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
 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 / GREEN
 SURFACE OWNER: COASTAL LUMBER COMPANY
 OIL & GAS ROYALTY OWNER: CHARLES W. MCCOY Jr ET AL
 LEASE NUMBERS:
 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
 WELL OPERATOR: TRIBUNE RESOURCES, LLC
 ADDRESS: 3861 AMBASSADOR CAFFERY PARKWAY SUITE 600
 CITY: LAFAYETTE STATE: LA ZIP CODE: 70503

DATE: JANUARY 14, 2020
 OPERATOR'S WELL #: WILEY N GRN WZ 3H AS-DRILLED
 API WELL #: 47 103 03100
 STATE COUNTY PERMIT
 AS-BUILT ELEVATION: 1,286.8'
 QUADRANGLE: PINE GROVE, WV - TOPHOLE
 CENTER POINT, WV - BOTTOM HOLE
 ACREAGE: 154.51 +/-
 ACREAGE: 1220.77 +/-
 ESTIMATED DEPTH: TMD: 17,674' TVD: 7358.7'
 DESIGNATED AGENT: HARMAN BROWN
 ADDRESS: 18396 MOUNTAINEER HIGHWAY
 CITY: WILEYVILLE STATE: WV ZIP CODE: 26581

NOTE:
 NO WATER WELLS WERE FOUND WITHIN 250' OF THE CENTER OF WELL PAD.
 NO DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF WELL PAD.

REFERENCE NOTES
 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 JULY 2018
 State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS
 Drafted by EAM

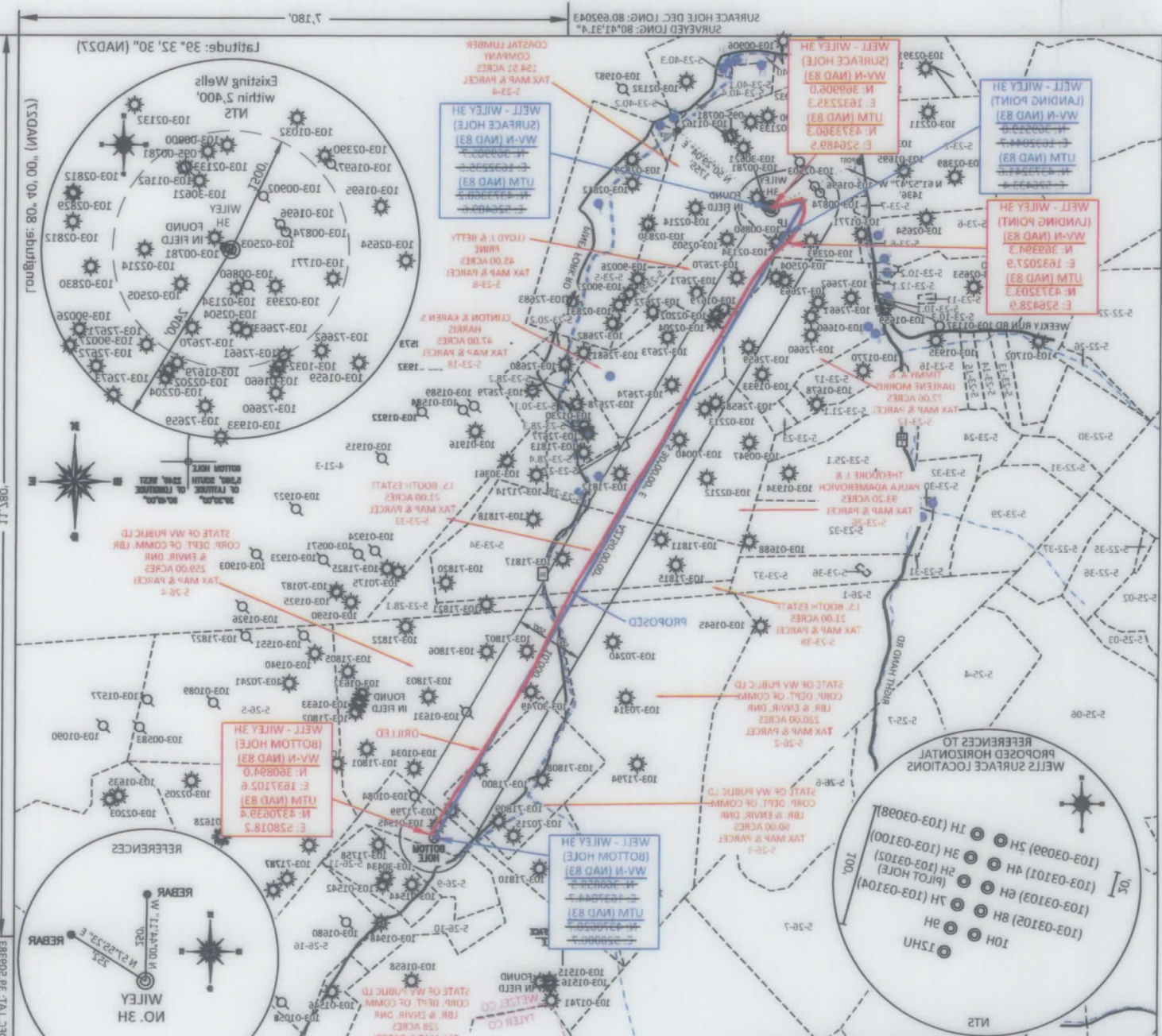
SURFACE HOLE DEC. LONG: 80.692043 SURVEYED LONG: 80°41'31.4" Longitude: 80° 40' 00" (NAD27)

7,180'

Latitude: 39° 32' 30" (NAD27)

11,780'

SURFACE HOLE DEC. LAT: 39.509883 SURVEYED LAT: 39°30'33.8"



FILE #	TRST
103-00874	N 75°25'11" W 731'
103-00781	N 74°17'48" E 80'
103-72863	2 26°13'39" E 1101'
103-72863	2 11°01'58" W 1021'
103-02504	2 04°59'27" W 994'
103-02134	2 08°13'25" W 994'
103-02505	2 25°30'27" E 768'
103-03293	2 50°24'40" W 734'
103-00880	2 56°03'02" W 427'
103-02514	N 89°46'18" E 1093'
103-01171	2 74°15'45" W 1250'
103-02133	N 13°48'02" E 1274'
103-00800	N 05°35'00" E 1317'

OF ELEVATION: GRADE GPS
 PROVEN SOURCE: SUBMETER MAPPING
 OF ACCURACY: 1/500
 MINIMUM DEGREE: 30'
 SCALE: HORIZ. 1" = 2500', VERT. 1" = 2500'
 DRAWING #: 2888
 FILE #: TRST
 I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS
 PLAN 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: Ernest J. Benchek III
 L.I.S. #2124 : Ernest J. Benchek III

CITY: LAFAYETTE STATE: LA ZIP CODE: 70503
 WELL OPERATOR: TRIBUNE RESOURCES, LLC
 DESIGNATED AGENT: HARMAN BROWN
 ESTIMATED DEPTH: TMD: 17674', TVD: 7328.7'
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY):
 PLUG OFF FORMATION PERFORATE NEW FORMATION
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 LEASE NUMBERS: OIL & GAS ROYALTY OWNER: CHARLES W. MCGOY JR ET AL
 SURFACE OWNER: COASTAL LUMBER COMPANY
 COUNTY/DISTRICT: WETZEL \ GREEN
 WATERSHED: FISHING CREEK
 Well Type: Gas Liquid Injection Storage Shallow Deep
 CHARLESTON, WV 25304
 601 57TH STREET
 OFFICE OF OIL & GAS
 WADep
 UNITED STATES TOPOGRAPHIC MAPS
 (+) DENOTES LOCATION OF WELL ON
 DATE: JANUARY 14, 2020
 OPERATOR'S WELL #: WILEY N GRN W3 3H AS-DRILLED
 STATE COUNTY PERMIT
 47 103 03100
 AS-BUILT ELEVATION: 1286.8'
 QUADRANGLE: CENTER POINT, WV - TOPHOLE
 PINE GROVE, WV - TOPHOLE

STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR ERNEST J. BENCHEK III LICENSED No. 2124