

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

API 47-103-03104 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 7H
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 369884.4 Easting 1632269.0
Landing Point of Curve Northing 370116.9 Easting 1633495.1
Bottom Hole Northing 361474.8 Easting 1638441.3

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 7/11/2019 Date drilling ceased 7/25/2019
Date completion activities began 9/15/2019 Date completion activities ceased 12/19/2019
Verbal plugging (Y/N) N Date permission granted _____ Granted by _____

REC'D
Office of Oil and Gas
JUN 28 2020
WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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:
DWGH
7/7/20

API 47-103 - 03104

Farm name Coastal Lumber Company

Well number WILEY N GRN WZ 7H

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"	1088'	New	J-55/54.5		Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	3413'	New	J-55/40		Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"	5-1/2"	17708'	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	15.6	1.20	225	Surface	N/A
Surface	Class A	880	15.6	1.19	1048	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	3757	14.5	1.17	4396	3379	
Tubing							

Drillers TD (ft) 17708' MD Loggers TD (ft) 17708' MD

Deepest formation penetrated Marcellus Plug back to (ft) _____

Plug back procedure _____

Kick off depth (ft) 6828

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.

Checked by _____
Date JUN 20 2020

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

API 47- 103 - 03104 Farm name Coastal Lumber Company Well number WILEY N GRN WZ 7H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
See	attached				

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
See	attached							

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JUN 24 2013
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Please insert additional pages as applicable.

API 47- 103 - 03104 Farm name Coastal Lumber Company Well number WILEY N GRN WZ 7H

PRODUCING FORMATION(S)	DEPTHS		
		TVD	MD
Marcellus	7223	7490	MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2703 psi Bottom Hole _____ psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 12694 mcfpd Oil 124 bpd NGL 0 bpd Water 105 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	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	7010	7112	7202	7339	Shale/Organic Shale, Natural Gas and Salt Water
Geneseo	7112	7148	7339	7398	Organic Shale, Natural Gas and Salt Water
Tully	7148	7164	7398	7427	Limestone, Saltwater
Hamilton	7164	7232	7427	7604	Shale/Organic Shale, Natural Gas and Salt Water
Marcellus	7232	Not Reached	7604	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 _____

Official State Seal
JUL 23 2010
W. Virginia Dept. of Environmental Protection

**PERFORATION RECORD
WILEY N GRN WZ 7H**

Stage No.	Perforation Date	Perforated from (MD ft.)	Perforated to (MD ft.)	Number of Perforations	Formations
1	10/10/2019	17588	17434	40	Marcellus
2	10/15/2019	17395.5	17241.5	40	Marcellus
3	10/16/2019	17207	17040	48	Marcellus
4	10/17/2019	17000	16836	48	Marcellus
5	10/18/2019	16809	16644	48	Marcellus
6	10/19/2019	16607	16443	48	Marcellus
7	10/24/2019	16410	16244	48	Marcellus
8	10/24/2019	16210	16045	48	Marcellus
9	10/25/2019	16012	15846	48	Marcellus
10	10/26/2019	15813	15649	48	Marcellus
11	10/29/2019	15614	15448	48	Marcellus
12	10/30/2019	15415	15249	48	Marcellus
13	11/1/2019	15216	15050	48	Marcellus
14	11/3/2019	15015	14851	48	Marcellus
15	11/4/2019	14818	14652	48	Marcellus
16	11/6/2019	14619	14453	48	Marcellus
17	11/6/2019	14420	14253	48	Marcellus
18	11/8/2019	14221	14055	48	Marcellus
19	11/9/2019	14018	13856	48	Marcellus
20	11/10/2019	13823	13657	48	Marcellus
21	11/11/2019	13624	13458	48	Marcellus
22	11/12/2019	13425	13259	48	Marcellus
23	11/13/2019	13226	13060	48	Marcellus
24	11/14/2019	13027	12861	48	Marcellus
25	11/15/2019	12828	12662	48	Marcellus
26	11/16/2019	12629	12466	48	Marcellus
27	11/17/2019	12430	12264	48	Marcellus
28	11/18/2019	12231	12064	48	Marcellus
29	11/20/2019	12032	11863	48	Marcellus
30	11/20/2019	11829	11667	48	Marcellus
31	11/21/2019	11634	11468	48	Marcellus
32	11/23/2019	11435	11269	48	Marcellus
33	11/24/2019	11236	11071	48	Marcellus
34	11/25/2019	11037	10871	48	Marcellus
35	11/26/2019	10838	10669	48	Marcellus
36	11/28/2019	10639	10473	48	Marcellus
37	11/28/2019	10440	10274	48	Marcellus
38	11/29/2019	10241	10075	48	Marcellus
39	11/30/2019	10042	9876	48	Marcellus
40	12/1/2019	9843	9677	48	Marcellus
41	12/2/2019	9644	9478	48	Marcellus
42	12/3/2019	9445	9279	48	Marcellus

**PERFORATION RECORD
WILEY N GRN WZ 7H**

Stage No.	Perforation Date	Perforated from (MD ft.)	Perforated to (MD ft.)	Number of Perforations	Formations
43	12/4/2019	9246	9080	48	Marcellus
44	12/7/2019	9046	8881	48	Marcellus
45	12/8/2019	8848	8682	48	Marcellus
46	12/9/2019	8649	8483	48	Marcellus
47	12/10/2019	8450	8284	48	Marcellus
48	12/11/2019	8251	8085	48	Marcellus
49	12/12/2019	8052	7886	48	Marcellus
50	12/13/2019	7858	7708	48	Marcellus

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**STIMULATION RECORD
WILEY N GRN WZ 7H**

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	10/15/2019	81.3	8419	9141	396438	8458	N/A
2	10/16/2019	79.2	8575	9213	396716	8127	N/A
3	10/17/2019	82.4	8459	9008	400159	9808	N/A
4	10/18/2019	87.1	8633	9034	401625	8447	N/A
5	10/19/2019	84.5	8460	9071	398257	9873	N/A
6	10/20/2019	87.8	8745	9057	402193	8189	N/A
7	10/24/2019	85.4	8766	9202	403548	8353	N/A
8	10/25/2019	90.4	8533	8918	402009	8233	N/A
9	10/26/2019	86.7	8763	9039	399893	8278	N/A
10	10/28/2019	90.9	8561	8789	402678	8204	N/A
11	10/30/2019	90.5	8598	8825	398574	8025	N/A
12	10/31/2019	94.1	8921	9094	400008	8207	N/A
13	11/1/2019	91.1	8626	8936	400077	8217	N/A
14	11/4/2019	91.3	8498	9257	400087	8091	N/A
15	11/5/2019	90.6	8887	9237	400326	8144	N/A
16	11/6/2019	89.4	8789	8987	400398	8114	N/A
17	11/7/2019	90.8	8536	8934	404661	8160	N/A
18	11/9/2019	91.3	8325	8831	402462	8117	N/A
19	11/10/2019	91.8	8459	8917	400588	7175	N/A
20	11/11/2019	92.2	8788	9198	401236	7094	N/A
21	11/12/2019	97.1	8800	8937	400375	7043	N/A
22	11/13/2019	96.1	8787	9214	409743	7136	N/A
23	11/14/2019	93.9	8722	9151	401807	7025	N/A
24	11/15/2019	96.1	8648	8900	402153	6881	N/A
25	11/16/2019	92.8	8514	8989	401471	6986	N/A
26	11/17/2019	93.1	8517	8909	400628	7167	N/A
27	11/18/2019	91.6	8439	8878	398144	7184	N/A
28	11/19/2019	90.5	8478	9047	401344	7189	N/A
29	11/20/2019	96.4	8629	8970	403915	7019	N/A
30	11/20/2019	94.5	8522	8736	401458	7229	N/A
31	11/23/2019	95	8417	8701	404695	7194	N/A
32	11/24/2019	94.4	8156	8512	404103	7104	N/A
33	11/25/2019	91.7	7902	8197	401885	7067	N/A
34	11/26/2019	90.1	7983	8250	402944	7102	N/A
35	11/27/2019	95.3	7764	7957	401119	7090	N/A
36	11/28/2019	90	8250	9000	400887	8136	N/A
37	11/29/2019	92.5	7815	8298	401360	7076	N/A
38	11/30/2019	92.6	7976	8251	401356	7013	N/A
39	12/1/2019	93.9	7945	8095	404504	7034	N/A
40	12/2/2019	95.3	7765	7928	401312	7000	N/A

**STIMULATION RECORD
WILEY N GRN WZ 7H**

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	94.4	7640	7910	403228	7007	N/A
42	12/3/2019	90.5	7547	7856	402911	7120	N/A
43	12/7/2019	97.1	7626	7944	402428	7146	N/A
44	12/8/2019	95.5	7664	7910	401610	7131	N/A
45	12/9/2019	94.7	7500	8201	401613	7093	N/A
46	12/10/2019	97	7571	7869	400087	7062	N/A
47	12/11/2019	93.5	7276	7667	401078	7117	N/A
48	12/12/2019	93	7239	7805	403405	7134	N/A
49	12/13/2019	94	7362	8026	402789	7084	N/A
50	12/14/2019	95.4	7525	8415	400584	6904	N/A

CO. 110 11/2019
 JUN 20 2020
 WILEY N GRN WZ 7H
 ENR. 11/2019



Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	10/15/2019
Job End Date:	12/14/2019
State:	West Virginia
County:	Wetzel
API Number:	47-103-03104-00-00
Operator Name:	Tribune Resources, LLC
Well Name and Number:	GRNWZ7H
Latitude:	39.50940700
Longitude:	-80.69174000
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,000
Total Base Water Volume (gal):	15,544,983
Total Base Non Water Volume:	0



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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
BIOC11139A	BJ Services	Biocide					
				Listed Below			
HCl, 5.1 - 7.5%	BJ Services	Acidizing					
				Listed Below			

Calcium Chloride	BJ Services	Salts																	
						Listed Below													
Sand, White	BJ Services	Proppant																	
						Listed Below													
ThinFrac MP	BJ Services	Friction Reducer																	
						Listed Below													
ResCare IC 300L	BJ Services	Iron Control																	
						Listed Below													
FRW-18	BJ Services	Friction Reducer																	
						Listed Below													
CI-14	BJ Services	Corrosion Inhibitor																	
						Listed Below													
Water	Operator	Carrier																	
						Listed Below													
GW-3LDF	BJ Services	Gelling Agent																	
						Listed Below													
FraCare SI-01	BJ Services	Scale Inhibitor																	
						Listed Below													

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					Listed Below			
FraCare Bren C - III NE	BJ Services	Scale Inhibitor						
					Listed Below			
FRW-15A Prime	BJ Services	Friction Reducer						
Items above are Trade Names with the exception of Base Water. Items below are the individual ingredients.								
			Water		7732-18-5	100.00000	85.57353	
			Crystalline Silica (Quartz)		14808-60-7	100.00000	13.42239	
			Water		7732-18-5	100.00000	0.85582	
			Hydrochloric Acid		7647-01-0	7.50000	0.06425	
			Acrylamide Modified Acrylic Polymer		Trade Secret	60.00000	0.03050	
			Petroleum distillates		64742-47-8	30.00000	0.01525	
			Distillates (petroleum), hydrotreated light		64742-47-8	30.00000	0.00381	
			Citric Acid		77-92-9	60.00000	0.00375	
			Guar Gum		9000-30-0	60.00000	0.00358	
			Sodium Chloride		7647-14-5	5.00000	0.00269	
			Petroleum Distillates		64742-47-8	30.00000	0.00269	
			Benzyl-(C12-C16 Alkyl)-Dimethyl-Ammonium Chloride		68424-85-1	30.00000	0.00268	
			Alcohols ethoxylated		Trade Secret	5.00000	0.00254	
			Sorbian monooleate		Trade Secret	5.00000	0.00254	
			Sorbitan monooleate ethoxylated		Trade Secret	5.00000	0.00254	
			Paraffinic Petroleum Distillate		64742-55-8	30.00000	0.00179	
			Methanol		67-56-1	100.00000	0.00144	
			Organo phosphorus salt		Trade Secret	5.00000	0.00122	

					62649-23-4	30.00000	0.00090	
			Poly (acrylamide-co-acrylic acid) partial sodium salt					
			Glutaraldehyde		111-30-8	10.00000	0.00089	
			Purified Water		7732-18-5	99.20000	0.00082	
			Calcium Chloride		10043-52-4	98.00000	0.00071	
			Alcohols, C11-14-iso-, C13-rich, ethoxylated		78330-21-9	4.90000	0.00062	
			Acetic acid		127-08-2	1.00000	0.00051	
			Ethanol		64-17-5	5.00000	0.00045	
			Polyoxyalkylenes		68951-67-7	30.00000	0.00043	
			Isotridecanol, ethoxylated		9043-30-5	5.00000	0.00030	
			1-Butoxy-2-Propanol		5131-66-8	5.00000	0.00030	
			Cyrstalline Silica, Quartz (SiO2)		14808-60-7	5.00000	0.00030	
			Fatty Acids		61790-12-3	10.00000	0.00014	
			Modified Thiourea Polymer		68527-49-1	7.00000	0.00010	
			Ammonium Chloride		12125-02-9	3.00000	0.00009	
			Propargyl Alcohol		107-19-7	5.00000	0.00007	
			Olefin		64743-02-8	5.00000	0.00007	
			Ethoxylated Alcohol		68551-12-2	2.00000	0.00006	
			Oleamide DEA		93-83-4	2.00000	0.00006	
			Tetrasodium EDTA		64-02-8	0.10000	0.00005	
			Acetic acid, Potassium Salt		64-19-7	0.10000	0.00005	
			Polyoxyethylene Sorbitan Monooleate		9005-65-6	0.50000	0.00002	
			Sorbitan Monooleate		1338-43-8	0.50000	0.00002	
			Formaldehyde		50-00-0	1.00000	0.00001	
			Hydrochloric acid		7647-01-0	1.00000	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	

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			Hemicellulase	9025-56-3	0.20000	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)

ENVIRONMENTAL
 CHEMICALS
 JUN 23 2020
 ENVIRONMENTAL
 CHEMICALS

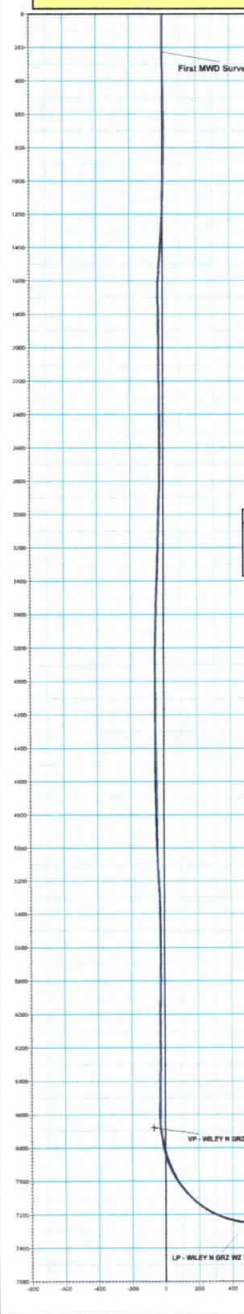
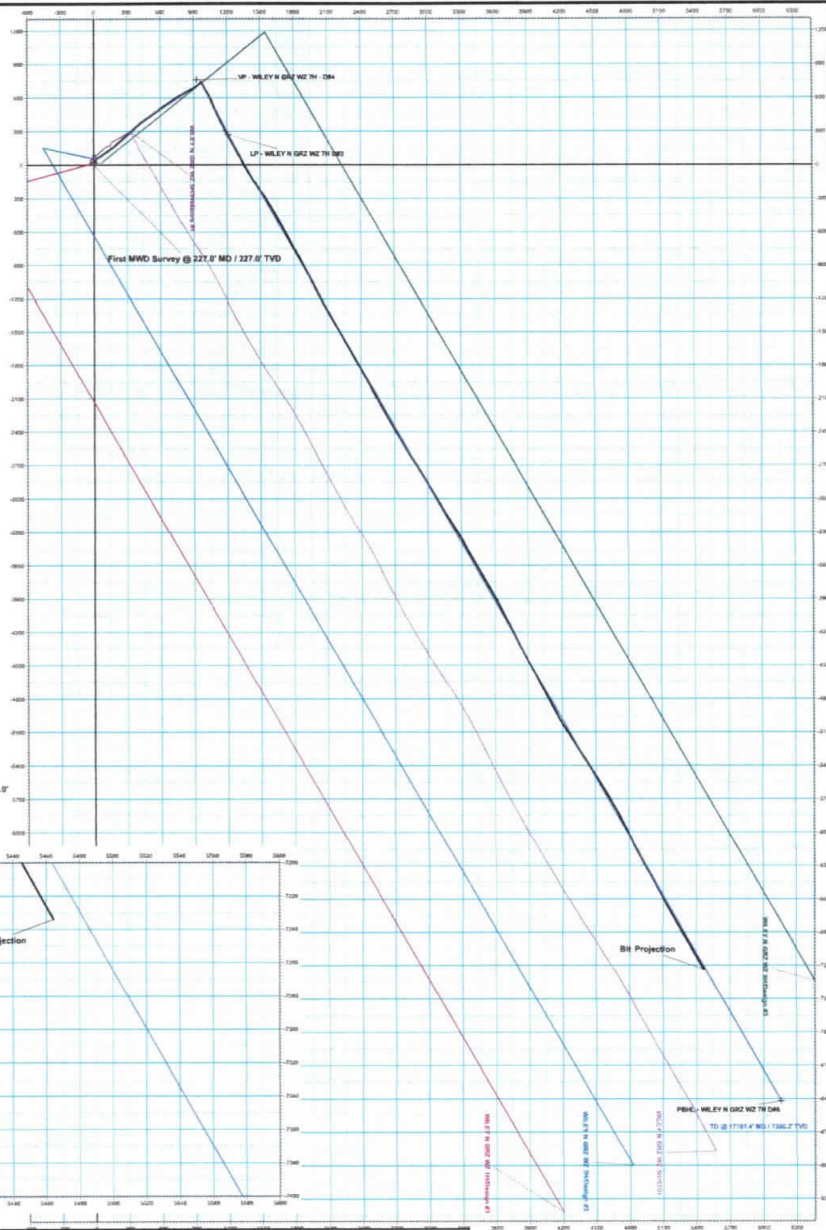
Company Name: Tribune Resources
 WILEY N GRZ WZ 7H
 Wetzel CO., WV
 Rig: H&P #471
 Created By: Brandon Salazar
 Date: 7/22/2019

WILEY N GRZ WZ 7H
 Wetzel CO., WV
 Q191168 & AM-191021
 Design #6



TRIBUNE
 RESOURCES

Azimuths to Grid North
 True North: 0.78°
 Magnetic North: -7.16°
 Magnetic Field
 Strength: 52036.1nT
 Dip Angle: 66.62°
 Date: 7/8/2019
 Model: HDGM



ANNOTATIONS

MD	Inc	Asl	TVD	+Ni-S	+E-W	VSecDeparture	Annotation
227.0	0.54	187.17	227.0	-1.1	-0.1	1.1	First MWD Survey @ 227.0' MD / 227.0' TVD
15335.0	89.08	188.01	7329.8	-7233.7	5464.4	9064.6	19415.8 BIR Projection

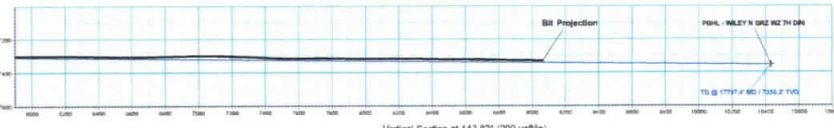
PROJECT DETAILS: Wetzel CO., WV
 Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: West Virginia Northern Zone
 System Datum: Mean Sea Level

WELL DETAILS: WILEY N GRZ WZ 7H

MD-S	+E-W	Northings	Ground Level	Eastings	Longitude
0.0	0.0	36885.25	1287.0	152218.98	80° 30' 33.570" N
					80° 41' 39.921" W


DESIGN ANNOTATIONS

MD	Inc	Asl	TVD	+Ni-S	+E-W	VSec	Departure	Annotation
4142.0	18.47	56.33	4051.9	421.2	488.8	-58.9	0.0	Turn @ 4142' MD / 4961.9' TVD
4184.0	18.47	56.33	4115.8	428.9	584.2	-58.1	17.3	PTN Head
5377.9	18.47	56.33	5272.1	648.8	532.0	-32.8	411.9	Drags 271.00'
8261.4	2.20	0.00	8162.0	748.4	988.0	-25.7	123.0	ECOS @ 8261'
8851.4	2.20	0.00	8852.0	748.4	988.0	-25.7	575.8	Build 107.00'
7745.0	89.42	158.54	7354.9	272.4	825.0	1143.0		FCR @ 89.42' Inc. / 152.58' Ann / Turn 271.00'
7833.0	89.42	158.54	7356.9	142.8	1282.4	641.9	1290.0	EDT @ 89.42' Inc. / 158.34' Ann
17787.4	89.42	158.54	7356.2	-4402.0	8158.0	19421.6	81184.2	TD @ 17787.4' MD / 7356.2' TVD



RECEIVED
 Office of Oil and Gas
 JUN 28 2020
 WV Department of
 Environmental Protection

Vertical Section at 143.82° (200 ush/n)

OPERATOR				Date:	06/23/20
		Tribune Resources Wiley N GRN WZ 7H Wetzel Co., WV H&P 471		Date:	06/23/20
				Day:	Tuesday
				Spud Date:	07/11/19
				Days Drilling:	5
				Report Time:	5:00 AM
CONTACT INFORMATION					
Loggers:	Chris Bradford	cbradford@exlog.com	Cell:(740) 213-4264		
	Alex Drunkenmiller	adrunkenmiller@exlog.com	Cell:(517) 897-4464		
Logger Supervisor:	Edward Gravatt	egravatt@exlog.com	Cell:(918) 710-0814		
Geologist:					
RECENT DRILLING ACTIVITY			MUD CHECK		
Days logging	6	Operation	DRILL	Depth	E.S.
Hole Depth	16,400' MD	Feet	2,300'	WT	CAL
Bit Depth		Avg. ROP	150 ft/hr	VIS	FILTRATE
Drlg hours		Lag Depth	16,340' MD	PV	
Bit hours		Max CG	3,178u	YP	
Bkgrnd Gas	2,930u	Max Cement Gas		GELS	
Max Gas	3,181u	Trip Gas		CK	
Trap Test	411u	Depth of Last Report	14,100' MD	H2O	
DRILLING VARIABLES					
Bit #4, Size: 8.75", Type: PDC, Provider: SECURITY, S/N: 12886993, Jets:					
WOB	34.8K	RPM	100		
SPP	5,548	SPM	75/75/74		
EX. LIME					
SURVEY	MD 16368' TVD 7329.3' AZM 150.2 INCL 90.3				
LITHOLOGY	16260' - 16350' MD: 100% SH: DRKGY, SUBBLKY TO MECH TO SUBSPLT, PRED FN TO OCC MED TXT, SFT TO BRIT TO FRM; IMBD PYR XLS.				
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	6852' TVD	7230' MD/7032' TVD/ -5721' SS			
Geneseo	7095' TVD	7350' MD/ 7119' TVD/ -5807' SS			
Tully	7123' TVD	7410' MD/ 7154' TVD/ -5843' SS			
Hamilton	7147' TVD	7440' MD/ 7170' TVD/ -5859' SS			
Marcellus	7235' TVD	7603' MD/ 7231' TVD/ -5920' SS			
Purcell	7242' TVD	7625' MD/ 7236' TVD/ -5925' SS			
Lower Marcellus	7244' TVD	7635' MD/ 7239' TVD/ -5928' SS			
Basal Marcellus	7267' TVD				
Onondaga	7285' TVD				
SHOWS	Before	During	Days of Samples: 6		
Depth '	ROP		Days of OBM: 5		
	Gas		HASPS: -		
Depth '	ROP		Trailer #: HD12		
	Gas		Bloodhound #:		

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 7H
API Well No: 47-103 - 03104

**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 2692 psig		Casing Pressure 3153 psig		Separator Pressure 558 psig		Separator Temperature 102 F			
Oil Production During Test 124		Gas Production During Test 12694		Water Production During Test 105		98370		-Salinity	
Oil Gravity 66.9		API		Producing Method (flowing, pumping, gas lift etc.) Flowing					

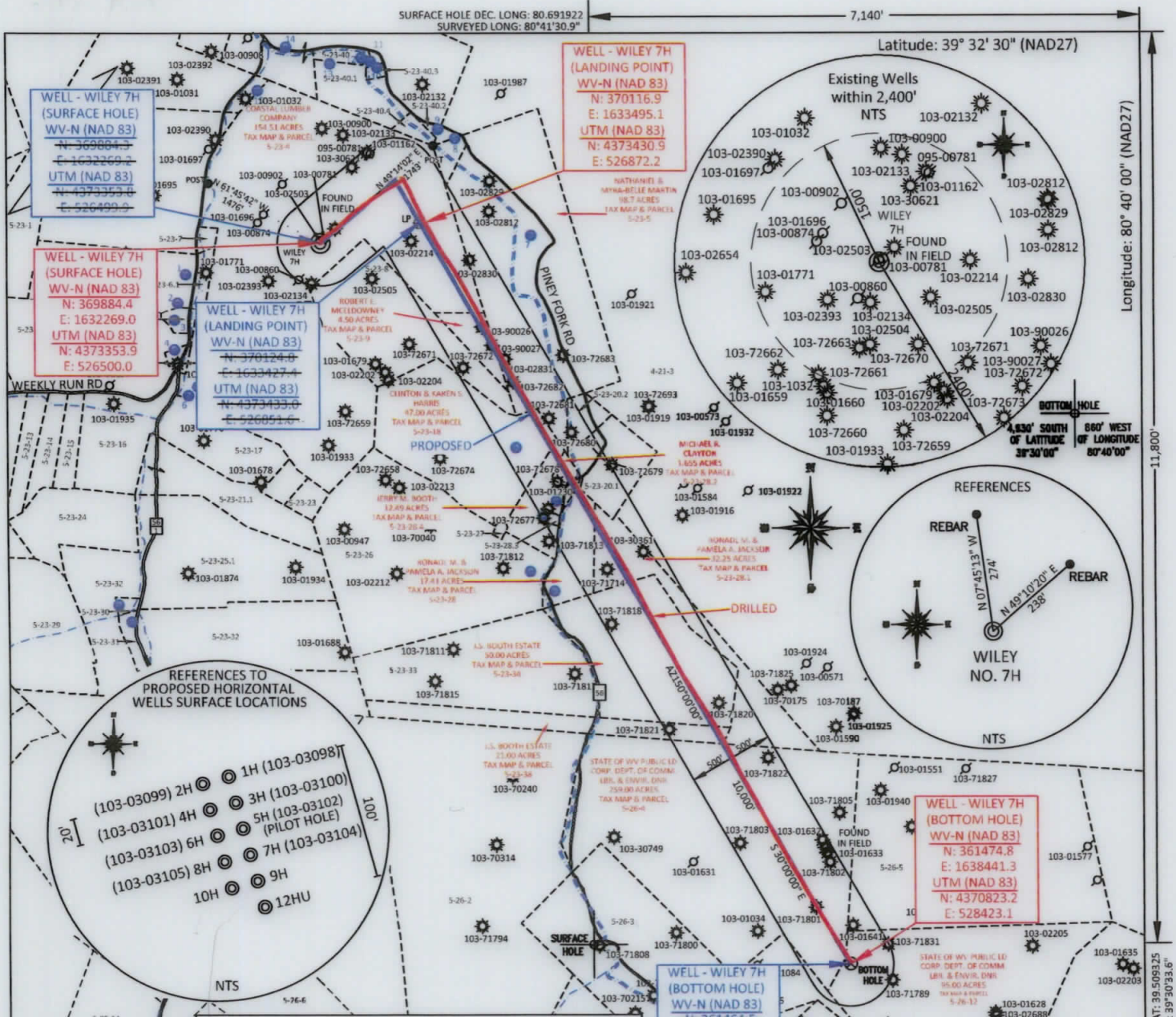
GAS PRODUCTION

Measurement Method Flange Tap <input checked="" type="checkbox"/> Pipe Tap <input type="checkbox"/> L-10 <input type="checkbox"/>			Positive Choke <input checked="" type="checkbox"/>		
Orifice diameter 2"			Pipe Diameter (inside) 2.90"		
Differential Pressure range 0-1500			Max. Static pressure range 0-800		
Differential			Prover and Orifice diameter - inches 2"		
Gas Gravity (Air = 1.0) Measured .6993 Estimated		Flowing Temperature 91.5 F		Gas Temperature 102 F	
24 Hour Coefficient		24 Hour coefficient pressure PSIA			

TEST RESULTS

Daily Oil 124		Daily Water 105		Daily Gas 12694		Gas-Oil Ratio 102370 scf	
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TRIBUNE RESOURCES, LLC
Well Operator
BY LEE L. LAWSON
ITS: REGULATORY/HSE DIRECTOR




REFERENCES TO PROPOSED HORIZONTAL WELLS SURFACE LOCATIONS

1H (103-03098)
 2H (103-03101)
 3H (103-03102)
 4H (103-03103)
 5H (103-03104)
 6H (103-03105)
 7H (103-03106)
 8H (103-03107)
 9H (103-03108)
 10H (103-03109)
 11H (103-03110)
 12HU (103-03111)

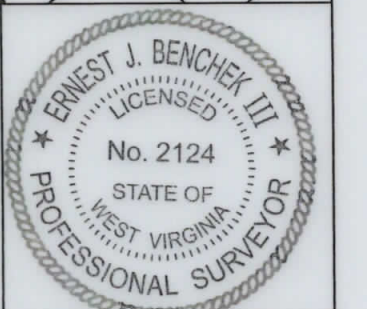
API # & DISTANCE TO WELL	
103-00900 : N 01°02'49" E 1337'	103-02503 : N 09°51'36" W 34'
103-02133 : N 12°06'50" E 1288'	103-01771 : S 75°27'14" W 1377'
095-00781 : N 27°25'09" E 1195'	103-02214 : N 88°36'12" E 1060'
103-01162 : N 29°21'40" E 1194'	103-00860 : S 30°39'50" W 494'
103-00902 : N 32°23'25" W 819'	103-02393 : S 53°49'14" W 748'
103-30621 : N 22°42'14" E 964'	103-02505 : S 55°24'19" E 729'
103-01696 : N 62°44'47" W 741'	103-02134 : S 12°32'54" W 484'
FOUND IN FIELD : N 45°06'02" E 246'	103-02504 : S 06°34'28" W 976'
103-00781 : N 45°13'49" E 61'	103-72663 : S 13°04'57" W 1037'
103-00874 : N 71°36'23" W 769'	103-72670 : S 25°06'41" E 1067'

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

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. 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 AS-BUILT ELEVATION: 1,286.8'

COUNTY/DISTRICT: WETZEL / GREEN QUADRANGLE: CENTER POINT, WV - BOTTOM HOLE

SURFACE OWNER: COASTAL LUMBER COMPANY ACREAGE: 154.51 +/-

OIL & GAS ROYALTY OWNER: CHARLES W. MCCOY JR ET AL ACREAGE: 793.515 +/-

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 ESTIMATED DEPTH: TMD: 17,708' TVD: 7,339'

WELL OPERATOR: TRIBUNE RESOURCES, LLC DESIGNATED AGENT: HARMAN BROWN

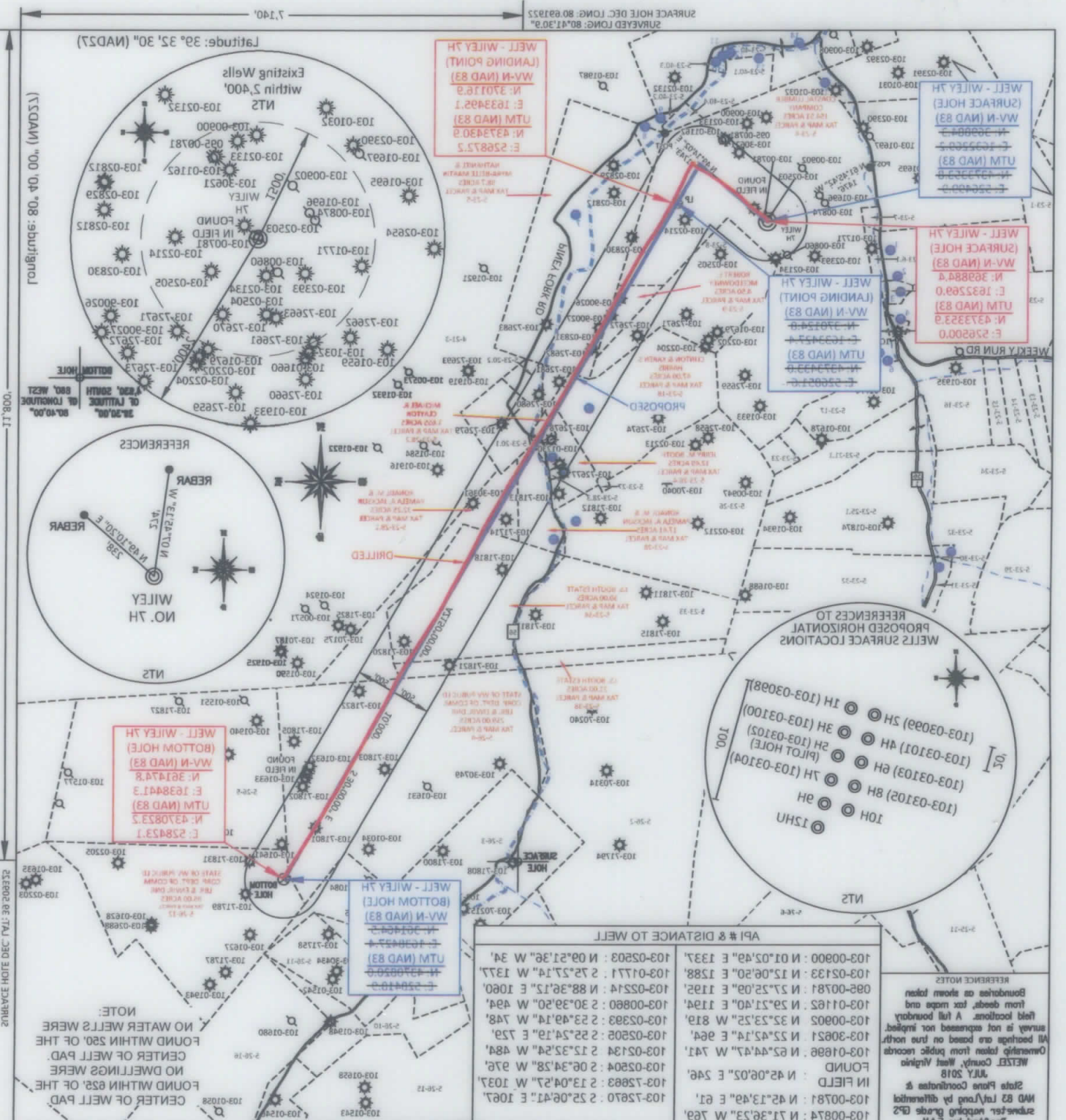
ADDRESS: 3861 AMBASSADOR CAFFERY PARKWAY SUITE 600 ADDRESS: 18396 MOUNTAINEER HIGHWAY

CITY: LAFAYETTE STATE: LA ZIP CODE: 70503 CITY: WILEYVILLE STATE: WV ZIP CODE: 26581

DATE: JANUARY 14, 2020

OPERATOR'S WELL #: WILEY N GRN WZ 7H AS-DRILLED

API WELL #: 47 103 03104
 STATE COUNTY PERMIT



<p>NOTE: FOUND WITHIN 650' OF THE CENTER OF WELL PAD. NO DWELLINGS WERE FOUND WITHIN 500' OF THE CENTER OF WELL PAD. NO WATER WELLS WERE FOUND WITHIN 500' OF THE CENTER OF WELL PAD.</p>	<p>APRIL 14, 2020</p>
<p>STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR ERNEST J. BENCHK III LICENSED No. 2124</p>	<p>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.</p> <p>Signed: <i>[Signature]</i> L.S. #2124 : Ernest J. Benchk III</p>

FILE #: TR81
DRAWING #: 2880
SCALE: PLAT 1" = 1800', MINIMUM DEGREE OF ACCURACY: 1/500
PROVEN SOURCE SUBMETER MAPPING GRADE GPS

WELL OPERATOR: TRIBUNE RESOURCES, LLC
ADDRESS: 3861 AMBASSADOR CAFEWAY PARKWAY SUITE 600
CITY: LAFAYETTE STATE: LA ZIP CODE: 70503

OIL & GAS ROYALTY OWNER: CHARLES W. MCCOY JR ET AL
SURFACE OWNER: COASTAL LUMBER COMPANY
COUNTY/DISTRICT: WETZEL \ GREEN
WATERSHED: FISHING CREEK

WELL TYPE: Gas Liquid Injection Storage Deep
 Oil Waste Disposal Production

LEASE NUMBERS:
TARGET FORMATION: MARCELLUS
WELL OPERATOR: TRIBUNE RESOURCES, LLC
DESIGNATED AGENT: HARMAN BROWN
ADDRESS: 1836 MOUNTAINEER HIGHWAY
CITY: WILMINGTON STATE: WV ZIP CODE: 26281

ESTIMATED DEPTH: TMD: 17,708' TVD: 7,730'
CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY):
PLUG OFF FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE

OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

API WELL #: 47 STATE COUNTY PERMIT 103 03104
OPERATOR'S WELL #: WILEY N GRN WZ 7H AS-DRILLED

DATE: JANUARY 14, 2020