

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

API 47-103-03322 County Wetzel District Green  
Quad Pine Grove, WV Pad Name Wiley Pad Field/Pool Name \_\_\_\_\_  
Farm name Coastal Lumber Company Well Number WILEY GRN WZ 9H  
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 369873.7 Easting 1632286.0  
Landing Point of Curve Northing 370559.4 Easting 1634097.5  
Bottom Hole Northing 361924.3 Easting 1639102.0

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 08/14/2019 Date drilling ceased 09/14/2019  
Date completion activities began 9/15/2019 Date completion activities ceased 12/19/2019  
Verbal plugging (Y/N) N Date permission granted \_\_\_\_\_ Granted by \_\_\_\_\_  
OFFICE OF OIL AND GAS

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 - 03322 Farm name Coastal Lumber Company Well number WILEY GRN WZ 9H

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"	120'	New	J-55/98		Y
Surface	17-1/2"	13-3/8"	1104'	New	J-55/54.5		Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	3471'	New	J-55/40		Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"	5-1/2"	17930'	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 <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	Class A	188	15.6	1.20	225	Surface	
Surface	Class A	989	15.6	1.19	1177	Surface	16.5
Coal							
Intermediate 1	Class A	1137	15.2/15.6	1.25/1.18	1384	Surface	8
Intermediate 2							
Intermediate 3							
Production	Class A	3607	14.5	1.17	4220	3430	
Tubing							

Drillers TD (ft) 17954' Loggers TD (ft) 17954' MD  
 Deepest formation penetrated Marcellus Plug back to (ft) \_\_\_\_\_  
 Plug back procedure \_\_\_\_\_

Kick off depth (ft) 7081

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 - one every three joints. Intermediate - one every three joints. Production - one every three joints from TD to KOP, one every five joints from KOP to surface.

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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 - 03322

Farm name Coastal Lumber Company

Well number WILEY GRN WZ 9H

PRODUCING FORMATION(S)

DEPTHS

Marcellus 7223 TVD 7490 MD

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 2759 psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 12670 mcfpd Oil 110 bpd NGL 0 bpd Water 39 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)

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	7006	7116	7475	7636	Shale/Organic Shale, Natural Gas and Salt Water
Geneseo	7116	7151	7636	7696	Organic Shale, Natural Gas and Salt Water
Tully	7151	7166	7696	7724	Limestone, Saltwater
Hamilton	7166	7235	7724	7895	Shale/Organic Shale, Natural Gas and Salt Water
Marcellus	7235	Not Reached	7895	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 \_\_\_\_\_ Title REGULATORY/HSE DIRECTOR Date \_\_\_\_\_

**PERFORATION RECORD  
WILEY N GRN WZ 9H**

Stage No.	Perforation Date	Perforated from (MD ft.)	Perforated to (MD ft.)	Number of Perforations	Formations
1	10/11/2019	17808	17652	40	Marcellus
2	10/24/2019	17619	17454	48	Marcellus
3	10/24/2019	17421	17256	48	Marcellus
4	10/26/2019	17223	17058	48	Marcellus
5	10/28/2019	17025	16860	48	Marcellus
6	10/29/2019	16827	16662	48	Marcellus
7	10/30/2019	16627	16464	48	Marcellus
8	11/1/2019	16431	16266	48	Marcellus
9	11/4/2019	16233	16068	48	Marcellus
10	11/4/2019	16035	15870	48	Marcellus
11	11/6/2019	15837	15672	48	Marcellus
12	11/7/2019	15639	15474	48	Marcellus
13	11/8/2019	15441	15276	48	Marcellus
14	11/9/2019	15237	15078	48	Marcellus
15	11/10/2019	15045	14880	48	Marcellus
16	11/11/2019	14844	14682	48	Marcellus
17	11/12/2019	14649	14484	48	Marcellus
18	11/13/2019	14451	14286	48	Marcellus
19	11/14/2019	14251	14088	48	Marcellus
20	11/15/2019	14055	13890	48	Marcellus
21	11/16/2019	13852	13692	48	Marcellus
22	11/17/2019	13659	13494	48	Marcellus
23	11/19/2019	13461	13269	48	Marcellus
24	11/20/2019	13263	13098	48	Marcellus
25	11/20/2019	13063	12900	48	Marcellus
26	11/23/2019	12867	12702	48	Marcellus
27	11/23/2019	12669	12504	48	Marcellus
28	11/24/2019	12471	12306	48	Marcellus
29	11/25/2019	12276	12109	48	Marcellus
30	11/26/2019	12075	11910	48	Marcellus
31	11/28/2019	11877	11710	48	Marcellus
32	11/28/2018	11679	11514	48	Marcellus
33	11/29/2019	11481	11316	48	Marcellus
34	11/30/2019	11283	11118	48	Marcellus
35	12/1/2019	11085	10920	48	Marcellus
36	12/2/2019	10887	10722	48	Marcellus
37	12/3/2019	10689	10524	48	Marcellus
38	12/4/2019	10491	10326	48	Marcellus
39	12/6/2019	10293	10128	48	Marcellus
40	12/7/2019	10095	9930	48	Marcellus
41	12/7/2019	9897	9732	48	Marcellus
42	12/8/2019	9699	9534	48	Marcellus

**PERFORATION RECORD  
WILEY N GRN WZ 9H**

Stage No.	Perforation Date	Perforated from (MD ft.)	Perforated to (MD ft.)	Number of Perforations	Formations
43	12/9/2019	9501	9334	48	Marcellus
44	12/10/2019	9303	9138	48	Marcellus
45	12/11/2019	9105	8973	40	Marcellus
46	12/11/2018	8907	8742	48	Marcellus
47	12/12/2019	8709	8544	48	Marcellus
48	12/13/2019	8511	8346	48	Marcellus
49	12/14/2019	8313	8148	48	Marcellus
50	12/14/2019	8108	7930	48	Marcellus

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**STIMULATION RECORD  
WILEY N GRN WZ 9H**

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	10/24/2019	77.3	8484	8852	549654	15367	N/A
2	10/24/2019	85.6	8826	9220	490556	13848	N/A
3	10/26/2019	85.8	8699	8946	602415	13951	N/A
4	10/28/2019	86.4	8829	8986	599964	14759	N/A
5	10/29/2019	85.7	8732	8922	600965	13814	N/A
6	10/30/2019	90.5	9063	9063	583812	13866	N/A
7	10/31/2019	89.6	8919	9112	607433	13971	N/A
8	11/3/2019	87.2	8654	9096	600205	13911	N/A
9	11/4/2019	91.7	8765	9023	598579	13906	N/A
10	11/6/2019	89.3	8825	9214	603766	13877	N/A
11	11/7/2019	86	8938	9190	599868	13826	N/A
12	11/8/2019	88.8	8794	9019	604946	13850	N/A
13	11/9/2019	90.9	8563	8842	600233	13881	N/A
14	11/10/2019	96.3	8944	8625	601605	12199	N/A
15	11/11/2019	92.5	8889	9243	600257	12172	N/A
16	11/12/2019	91	8873	9276	601281	12137	N/A
17	11/13/2019	93.6	8867	9247	601391	12103	N/A
18	11/14/2019	91.9	8672	9092	583486	11992	N/A
19	11/15/2019	90	8866	9293	600877	12738	N/A
20	11/16/2019	88.5	8507	8929	602277	13177	N/A
21	11/17/2019	89.7	8427	9131	510819	11685	N/A
22	11/18/2019	88.6	8636	9090	602272	12400	N/A
23	11/19/2019	90.1	8453	8771	601374	12289	N/A
24	11/20/2019	96.3	8777	9160	600570	11857	N/A
25	11/21/2019	89.6	8911	9286	520120	12289	N/A
26	11/23/2019	89.6	8353	9202	601893	12309	N/A
27	11/24/2019	92.7	8477	8678	602693	12280	N/A
28	11/25/2019	90.7	8325	8614	601267	12217	N/A
29	11/26/2019	91.9	8217	8587	600726	12206	N/A
30	11/27/2019	91.4	8160	8519	601174	12182	N/A
31	11/28/2019	90.9	8100	8501	592607	12108	N/A
32	11/29/2019	93.1	8344	8732	600948	12163	N/A
33	11/30/2019	93.2	8279	8550	602175	12137	N/A
34	12/1/2019	91.6	8204	8640	579286	13498	N/A
35	12/2/2019	95	8025	8395	601277	12142	N/A
36	12/3/2019	93.7	8097	8428	602053	12214	N/A
37	12/4/2019	90	7818	8066	600755	12241	N/A
38	12/6/2019	93.4	7917	8600	602132	11958	N/A
39	12/6/2019	93.7	8119	8536	599964	12344	N/A
40	12/7/2019	93.9	7950	8566	599149	12230	N/A

**STIMULATION RECORD  
WILEY N GRN WZ 9H**

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	12/7/2019	91.5	7801	8202	600607	12251	N/A
42	12/8/2019	94.9	7716	8105	600624	12238	N/A
43	12/9/2019	93.6	7725	8083	600412	13362	N/A
44	12/10/2019	93.7	7567	8053	600503	12798	N/A
45	12/11/2019	92.5	7576	8855	600660	12877	N/A
46	12/12/2019	99.6	8026	8908	530397	11350	N/A
47	12/13/2019	95	7389	7898	601027	12160	N/A
48	12/14/2019	93.8	7327	7953	603510	12242	N/A
49	12/14/2019	100.5	8067	8896	600939	11895	N/A
50	12/15/2019	100.1	7835	9065	615450	12208	N/A

Office of Oil and Gas

JUN 20 2020

Environmental Section



# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	10/24/2019
Job End Date:	12/15/2019
State:	West Virginia
County:	Wetzel
API Number:	47-103-03322-00-00
Operator Name:	Tribune Resources, LLC
Well Name and Number:	WILEY GRN WZ 9H
Latitude:	39.50937800
Longitude:	-80.69168500
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,000
Total Base Water Volume (gal):	27,026,557
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
FRW-18	BJ Services	Friction Reducer					
				Listed Below			
CI-14	BJ Services	Corrosion Inhibitor					
				Listed Below			

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Water	Operator	Carrier							
							Listed Below		
FraCare SI-01	BJ Services	Scale Inhibitor							
							Listed Below		
Calcium Chloride	BJ Services	Salts							
							Listed Below		
BIOC11139A	BJ Services	Biocide							
							Listed Below		
HCl, 5.1 - 7.5%	BJ Services	Acidizing							
							Listed Below		
FraCare Bren C - III NE	BJ Services	Scale Inhibitor							
							Listed Below		
GW-3LDF	BJ Services	Gelling Agent							
							Listed Below		
ResCare IC 300L	BJ Services	Iron Control							
							Listed Below		
Sand, White	BJ Services	Proppant							

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ThinFrac MP	BJ Services	Friction Reducer		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	87.74882		
			Crystalline Silica (Quartz)	14808-60-7	100.00000	11.57984		
			Water	7732-18-5	100.00000	0.54328		
			Acrylamide Modified Acrylic Polymer	Trade Secret	60.00000	0.04122		
			Hydrochloric Acid	7647-01-0	7.50000	0.03815		
			Petroleum distillates	64742-47-8	30.00000	0.02061		
			Sodium Chloride	7647-14-5	5.00000	0.00344		
			Sorbitan monooleate ethoxylated	Trade Secret	5.00000	0.00344		
			Sorbitan monooleate	Trade Secret	5.00000	0.00344		
			Alcohols ethoxylated	Trade Secret	5.00000	0.00344		
			Benzyl-(C12-C16 Alkyl)-Dimethyl-Ammonium Chloride	68424-85-1	30.00000	0.00263		
			Citric Acid	77-92-9	60.00000	0.00222		
			Guar Gum	9000-30-0	60.00000	0.00171		
			Organo phosphorus salt	Trade Secret	5.00000	0.00129		
			Glutaraldehyde	111-30-8	10.00000	0.00088		
			Petroleum Distillates	64742-47-8	30.00000	0.00086		
			Paraffinic Petroleum Distillate	64742-55-8	30.00000	0.00086		
			Methanol	67-56-1	100.00000	0.00085		
			Acetic acid	127-08-2	1.00000	0.00069		
			Purified Water	7732-18-5	99.20000	0.00062		
			Ethanol	64-17-5	5.00000	0.00044		
			Polyoxyalkylenes	68951-67-7	30.00000	0.00026		

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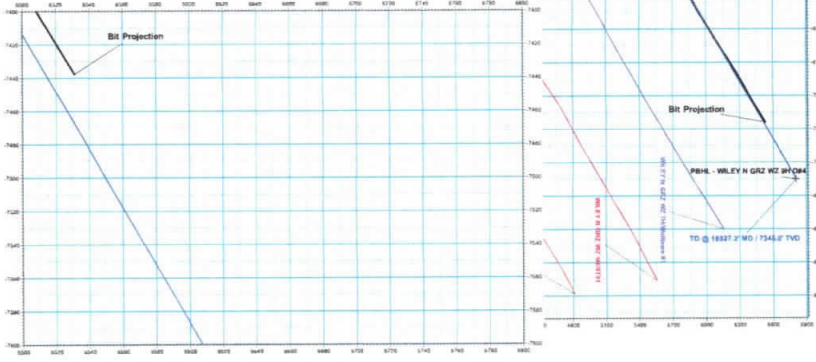
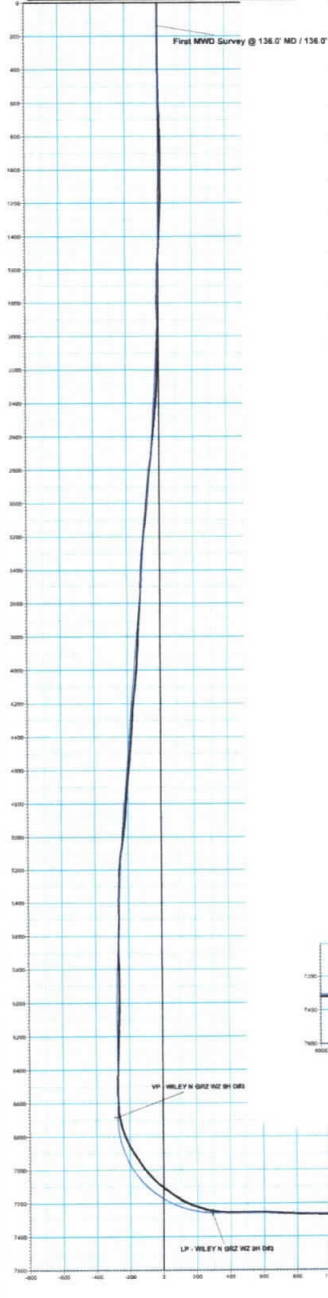
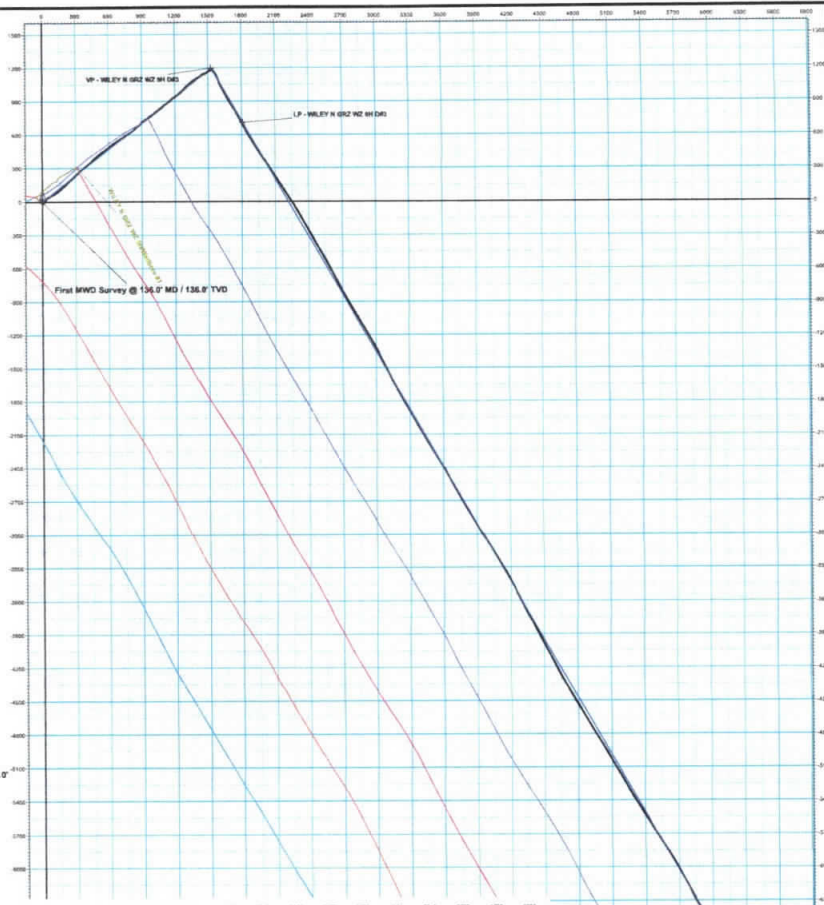
Company Name: Tribune Resources  
 WILEY N GRZ WZ 9H  
 Wetzel CO., WV  
 Rig: Original Well Elevation  
 Created By: Brandon Salazar  
 Date: 09/03/2019

WILEY N GRZ WZ 9H  
 Wetzel CO., WV  
 Q191456 & AM-191257  
 Design #4



**G**  
**M** **T**

Azimuths to Grid North  
 True North: 0.76°  
 Magnetic North: -7.17°  
 Magnetic Field  
 Strength: 52025.7 nT  
 Dip Angle: 66.62°  
 Date: 9/19/2019  
 Model: HDGM



**ANNOTATIONS**

MD	Inc	Azi	TVD	+N-S	+E-W	VSeat	Departure	Annotation
136.0	0.54	242.83	136.0	-0.3	-0.3	0.0	0.0	First MWD Survey @ 136.0' MD / 136.0' TVD
17368.0	88.88	148.80	7368.4	-7437.3	6331.1	9796.6	11855.5	Bit Projection

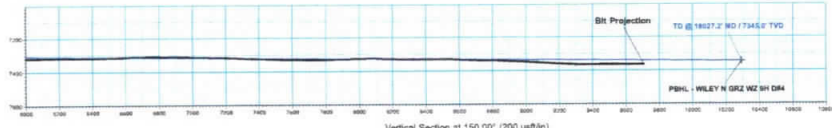
**PROJECT DETAILS: Wetzel CO., WV**  
 Geodetic System: US State Plane 1983  
 Datum: North American Datum 1983  
 Ellipsoid: GRS 1980  
 Zone: West Virginia Northern Zone  
 System Datum: Mean Sea Level

**WELL DETAILS: WILEY N GRZ WZ 9H**

Original Level:	1315.3				
+N-S	+E-W	Northing	Easting	Latitude	Longitude
8.3	6.3	38844.54	183225.06	39° 32' 33.467 N	80° 47' 39.704 W


**DESIGN ANNOTATIONS**

MD	Inc	Azi	TVD	+N-S	+E-W	VSeat	Departure	Annotation
136.0	0.54	242.83	136.0	-0.3	-0.3	0.0	0.0	First MWD Survey @ 136.0' MD / 136.0' TVD
2786.2	30.00	51.88	2786.5	230.3	302.7	-34.1	381.9	Bit @ 30.00° Inc. / 51.88° Azim
5132.4	38.00	51.63	4759.4	391.3	1225.8	-213.7	1537.8	Bit @ 38.00° Inc. / 51.63° Azim
6633.9	0.00	0.00	6184.1	1186.3	1527.8	-272.6	1941.7	Bit @ 0.00° Inc. / 0.00° Azim
7133.4	0.00	0.00	6864.1	1186.3	1527.8	-272.6	1941.7	Bit @ 0.00° Inc. / 0.00° Azim
8028.9	88.30	150.00	7257.2	726.4	1911.6	284.1	2569.9	Bit @ 88.30° Inc. / 150.00° Azim
16927.2	88.88	148.80	7368.4	-7437.3	6331.1	11232.8	11855.5	Bit @ 88.88° Inc. / 148.80° Azim



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Vertical Section at 150.00' (200 ual/ft)

OPERATOR		Date: 09/04/19	
	<b>Tribune Resources</b> <b>Wiley N GRN WZ 9H</b> <b>Wetzel Co., WV</b> <b>H&amp;P 471</b>	Day: Wednesday	
		Spud Date: 08/21/19	
		Days Drilling: 9	
		Report Time: 5:00 AM	
CONTACT INFORMATION			
Loggers:	Zach Chartrand Matthew Harding	zchartrand@exlog.com mharding@exlog.com	Cell:(440) 279-3405 Cell:(724) 708-4461
Logger Supervisor:	Edward Gravatt	egravatt@exlog.com	Cell:(918) 710-0814
Geologist:	Trevor Casper	trevor.casper@tribunerresources.com	Cell:(337) 322-4315
RECENT DRILLING ACTIVITY		MUD CHECK	
Days logging	11	Operation	TD
Hole Depth	17,934' MD	Feet	484'
Bit Depth	17,950' MD	Avg. ROP	137 ft/hr
Drig hours	4 hrs	Lag Depth	17,935' MD
Bit hours	4 hrs	Max CG	754u
Bkgrrnd Gas	719u	Max Cement Ga:	N/A
Max Gas	860u	Trip Gas	N/A
Trap Test	495u	Depth of Last Report	17,450' MD
Depth	17,368'	E.S.	478
WT	13	CAL	24,871
VIS	59	FILTRATE	7.4
PV	25		
YP	14		
GELS	12/23/36		
CK	1		
H2O	19.00%		
OIL	54.50%		
SOL	24.70%		
CL	44,000		
EX. LIME	2.1		
DRILLING VARIABLES			
Bit #6, Size: 8.75", Type: PDC, Provider: SECURITY, S/N: 12890206, Jets: 7X20			
WOB	34.5K	RPM	120
PP	4,882	SPM	75/75/75
SURVEY	PTB: MD 17954' / TVD 7357.87' / INC 90.1 / AZM 151.4 / VS 10292.38'		
LITHOLOGY	Lower Marcellus  17900' MD - 17954' MD: 100% SH: BLK - GYSHBLK, SUBBLKY TO TR MECH, FN TO SL SLTY TXT, FRM, IMBD PYR XLS.		
FORMATION TOP CORRELATION			
FORMATION	PROGNOSIS	CORRELATION	
Big Injun	2,342 TVD	EPL	
Big Injun Base	2,551 TVD	EPL	
Berea	2,912 TVD	EPL	
Gordon	3,116 TVD	EPL	
Gordon Base	3,183 TVD	EPL	
Middlesex	7,004 TVD	7469' MD / 7001' TVD / -5690' SS	
Geneseo	7,113 TVD	7653' MD / 7126' TVD / -5815' SS	
Tully	7,148 TVD	7695' MD / 7150' TVD / -5839' SS	
Hamilton	7,172 TVD	7737' MD / 7173' TVD / -5862' SS	
Marcellus	7,232 TVD	7880' MD / 7230' TVD / -5919' SS	
Purcell	7,247 TVD	7944' MD / 7246' TVD / -5935' SS	
Lower Marcellus	7,252 TVD	7968' MD / 7250' TVD / -5939' SS	
Basal Marcellus	N/A	N/A	
Onondaga	7,280 TVD	TBD	
SHOWS	Before	During	Days of Samples: 9
Depth '	ROP		Days of OBM: 9
	Gas		HASPS: -
Depth '	ROP		Trailer #: HD12
	Gas		TS3 S/N#: TGD420
COMMENTS	TD REACHED @ 17954'MD AT 11:27AM ON 9/4/19.		

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

**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**

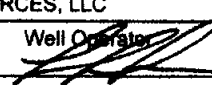
Start of Test Date <b>3/13/2020</b>		Time <b>10:00 am</b>		End of Test Date <b>3/14/2020</b>		Time <b>10:00 am</b>		Duration of Test <b>24 hr</b>	
Tubing Pressure <b>2746 psig</b>		Casing Pressure <b>3146 psig</b>		Separator Pressure <b>558 psig</b>		Separator Temperature <b>86.4 F</b>			
Oil Production During Test <b>110</b>		Gas Production During Test <b>12670</b>		Water Production During Test <b>39</b>		-Salinity <b>83962</b>			
Oil Gravity <b>69.1</b>		API		Producing Method (flowing, pumping, gas lift etc.) <b>Flowing</b>					

**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 <b>2"</b>		Pipe Diameter (inside) <b>2.90"</b>		Nominal Choke Size inches <b>27/64</b>	
Differential Pressure range <b>0-1500</b>		Max. Static pressure range <b>0-800</b>		Prover and Orifice diameter - inches <b>2"</b>	
Differential			Static		
Gas Gravity (Air = 1.0) Measured _____ Estimated <b>.7102</b>		Flowing Temperature <b>91.9 F</b>		Gas Temperature <b>86.4 F</b>	
24 Hour Coefficient		24 Hour coefficient pressure PSIA			

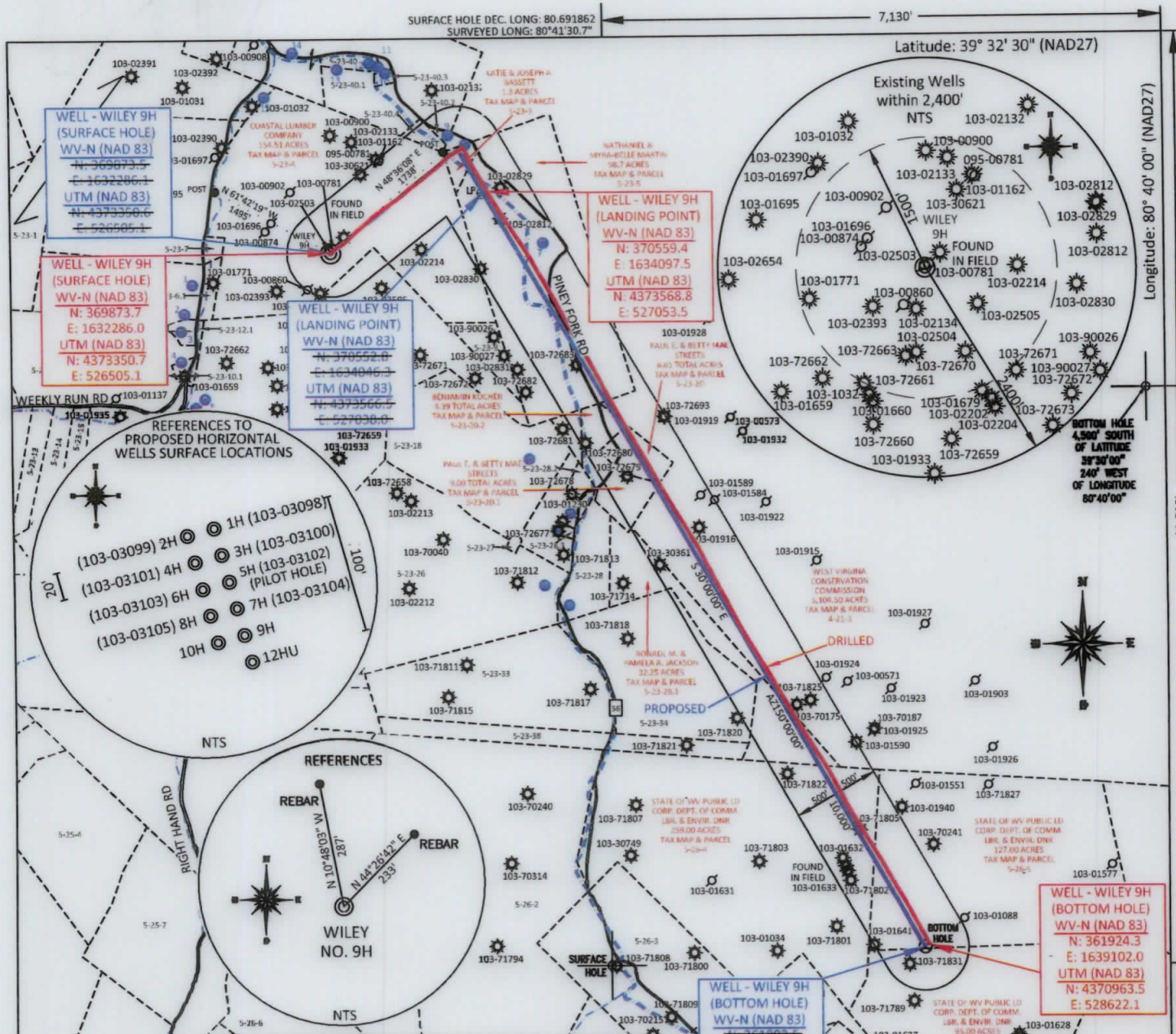
**TEST RESULTS**

Daily Oil <b>110</b>		Daily Water <b>39</b>		Daily Gas <b>12670</b>		Gas-Oil Ratio <b>115181 scf</b>	
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TRIBUNE RESOURCES, LLC  
 Well Operator  
 BY LEE L. LAWSON  JUN 20 2020  
 ITS: REGULATORY/HSE DIRECTOR

Office of Oil and Gas  
 Department of Environmental Protection



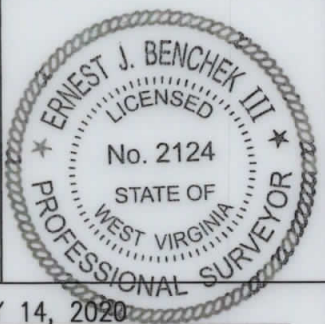


API # & DISTANCE TO WELL	
103-00900 : N 00°19'16" E 1347'	103-02503 : N 27°08'59" W 50'
103-02133 : N 11°17'02" E 1295'	103-01771 : S 76°03'25" W 1391'
095-00781 : N 26°27'55" E 1197'	103-02214 : N 87°59'28" E 1043'
103-01162 : N 28°24'13" E 1195'	103-00860 : S 32°58'58" W 494'
103-00902 : N 32°58'19" W 837'	103-02393 : S 55°14'02" W 755'
103-30621 : N 21°32'10" E 967'	103-02505 : S 55°20'43" E 709'
103-01696 : N 62°36'34" W 761'	103-02134 : S 14°48'15" W 478'
FOUND IN FIELD : N 40°29'09" E 243'	103-02504 : S 07°38'25" W 967'
103-00781 : N 26°19'07" E 60'	103-72663 : S 14°07'54" W 1031'
103-00874 : N 71°15'11" W 789'	103-72670 : S 24°31'35" E 1051'

**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

FILE #: TRB1  
 DRAWING #: 2891  
 SCALE: PLAT: 1" = 1800'  
 TACK: 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY: 1/200  
 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 THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.  
 Signed: [Signature]  
 L.L.S. #2124 : Ernest J. Benchek 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 GRN WZ 9H  
 API WELL #: 47 103 STATE COUNTY PERMIT  
 AS-BUILT ELEVATION: 1,286.8'  
 QUADRANGLE: PINE GROVE, WV - TOPHOLE  
CENTER POINT, WV - BOTTOM HOLE  
 ACREAGE: 154.51 +/-  
 ACREAGE: 5892.26 +/-  
 ESTIMATED DEPTH: TMD: 17,954' TVD: 7,357.9'  
 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.



