

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

API 47-103-03098 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 1H
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 4373363.3 Easting 526484.3
Landing Point of Curve Northing 4373123.4 Easting 526258.7
Bottom Hole Northing 4370510.5 Easting 527837.6

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 08/07/2019 Date drilling ceased 08/21/2019
Date completion activities began 9/15/2019 Date completion activities ceased 12/19/2019
Verbal plugging (Y/N) N Date permission granted _____ Granted by _____

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JUN 21 2020
Vernon
Emery

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
7/7/20

API 47-103 - 03098 Farm name Coastal Lumber Company Well number WILEY N GRN WZ 1H

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"	107'	New	J-55/98		Y
Surface	17-1/2"	13-3/8"	1068'	New	J-55/54.5		Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	3376'	New	J-55/40		Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"	5-1/2"	17641'	New	P-110/20		
Tubing							
Packer type and depth set							

Comment Details Full circulation 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	188	15.6	1.20	225	Surface	N/A
Surface	Class A	989	15.6	1.19	1177	Surface	13.5
Coal							
Intermediate 1	Class A	1106	15.2/15.6	1.25/1.18	1345	Surface	9.5
Intermediate 2							
Intermediate 3							
Production	Class A	3743	14.5	1.17	4379	4542	
Tubing							

Drillers TD (ft) 17677' Loggers TD (ft) 17677' MD
 Deepest formation penetrated Marcellus Plug back to (ft) _____
 Plug back procedure _____

Kick off depth (ft) 6794

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 _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

API 47- 103 - 03098 Farm name Coastal Lumber Company Well number WILEY N GRN WZ 1H

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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Please insert additional pages as applicable.

API 47- 103 - 03098

Farm name Coastal Lumber Company

Well number WILEY N GRN WZ 1H

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 2856 psi Bottom Hole _____ psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 12610 mcfpd Oil 113 bpd NGL 0 bpd Water 77 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	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	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 _____

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

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WATER AND
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PROTECTION

**PERFORATION RECORD
WILEY N GRN WZ 1H**

Stage No.	Perforation Date	Perforated from (MD ft.)	Perforated to (MD ft.)	Number of Perforations	Formations
1	10/10/2019	17520	17362	40	Marcellus
2	10/14/2019	17322.5	17164.5	40	Marcellus
3	10/15/2019	17125	16967	40	Marcellus
4	10/16/2019	16934	16769	48	Marcellus
5	10/18/2019	16736	16571	48	Marcellus
6	10/18/2019	16538	16373	48	Marcellus
7	10/20/2019	16340	16175	48	Marcellus
8	10/20/2019	16143	15977	48	Marcellus
9	10/22/2019	15944	15779	48	Marcellus
10	10/23/2019	15745	15581	48	Marcellus
11	10/29/2019	15548	15383	48	Marcellus
12	11/2/2019	15350	15185	48	Marcellus
13	11/3/2019	15152	14987	48	Marcellus
14	11/4/2019	14954	14789	48	Marcellus
15	11/5/2019	14756	14591	48	Marcellus
16	11/6/2019	14558	14393	48	Marcellus
17	11/7/2019	14360	14195	48	Marcellus
18	11/8/2019	14162	13997	48	Marcellus
19	11/9/2019	13964	13799	48	Marcellus
20	11/10/2019	13766	13601	48	Marcellus
21	11/11/2019	13564	13403	48	Marcellus
22	11/12/2019	13370	13206	48	Marcellus
23	11/13/2019	13173	13009	48	Marcellus
24	11/14/2019	12976	12812	48	Marcellus
25	11/15/2019	12779	12615	48	Marcellus
26	11/16/2019	12582	12418	48	Marcellus
27	11/18/2019	12382	12221	48	Marcellus
28	11/22/2019	12188	12023	48	Marcellus
29	11/23/2019	11991	11827	48	Marcellus
30	11/24/2019	11958	11628	48	Marcellus
31	11/24/2019	11597	11433	48	Marcellus
32	11/25/2019	11400	11236	48	Marcellus
33	11/26/2019	11203	11039	48	Marcellus
34	11/28/2019	11006	10842	48	Marcellus
35	11/28/2019	10809	10645	48	Marcellus
36	11/29/2019	10612	10448	48	Marcellus
37	12/1/2019	10415	10251	48	Marcellus
38	12/1/2019	10218	10054	48	Marcellus
39	12/2/2019	10021	9857	48	Marcellus
40	12/3/2019	9824	9660	48	Marcellus
41	12/4/2019	9625	9463	48	Marcellus
42	12/7/2019	9430	9266	48	Marcellus

**PERFORATION RECORD
WILEY N GRN WZ 1H**

Stage No.	Perforation Date	Perforated from (MD ft.)	Perforated to (MD ft.)	Number of Perforations	Formations
43	12/8/2019	9231	9069	48	Marcellus
44	12/9/2019	9036	8872	48	Marcellus
45	12/10/2019	8840	8675	48	Marcellus
46	12/11/2019	8642	8478	48	Marcellus
47	12/12/2019	8445	8281	48	Marcellus
48	12/13/2019	8248	8084	48	Marcellus
49	12/13/2019	8048	7863	48	Marcellus
50	12/14/2019	7827	7641	48	Marcellus

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 Chief Engineer
 JUN 26 2020
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**STIMULATION RECORD
WILEY N GRN WZ 1H**

Stage No.	Stimulation Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	Amount of Proppant (lbs)	Amount of Water (bbbls)	Amount of Nitrogen/other (units)
1	10/14/2019	77.1	7753	8383	383847	9046	N/A
2	10/15/2019	78	8537	9021	396558	8571	N/A
3	10/16/2019	75.7	8557	9182	400715	8498	N/A
4	10/17/2019	84.1	8752	9127	397739	8316	N/A
5	10/18/2019	85.7	8677	9107	403014	8304	N/A
6	10/19/2019	89.7	8874	9275	403760	8184	N/A
7	10/21/2019	89.8	8636	8972	400251	8117	N/A
8	10/22/2019	89.6	8445	8834	400321	8258	N/A
9	10/23/2019	90.1	8665	8942	401743	8099	N/A
10	10/29/2019	91.1	8704	8906	400434	8180	N/A
11	10/31/2019	91.6	8851	9140	360749	8888	N/A
12	11/3/2019	96.7	8739	8962	400100	8163	N/A
13	11/3/2019	89.7	8403	8736	402135	8221	N/A
14	11/5/2019	90.6	8543	9098	402570	8130	N/A
15	11/6/2019	90.8	8970	9269	400522	8172	N/A
16	11/7/2019	93.7	8811	9094	415018	8251	N/A
17	11/8/2019	92.7	8850	9259	401070	7956	N/A
18	11/9/2019	88	8758	9229	404907	8012	N/A
19	11/10/2019	96	8809	9180	400741	7077	N/A
20	11/11/2019	90.6	8347	8996	399541	7167	N/A
21	11/12/2019	93.9	8778	9137	400405	7046	N/A
22	11/13/2019	89	8465	8785	405052	7289	N/A
23	11/14/2019	90.2	8393	8940	403140	7066	N/A
24	11/15/2019	90.2	8480	8882	403195	7116	N/A
25	11/16/2019	89.4	8347	8778	403429	7076	N/A
26	11/18/2019	91.5	8859	9218	401074	6938	N/A
27	11/19/2019	92.8	8848	9264	347984	6431	N/A
28	11/23/2019	90.7	8154	8481	402152	7193	N/A
29	11/23/2019	93.6	8370	8728	401309	7110	N/A
30	11/24/2019	93.7	8417	8845	402327	7129	N/A
31	11/24/2019	93.8	8463	9133	402679	7150	N/A
32	11/26/2019	93.4	8429	8962	401612	7080	N/A
33	11/27/2019	96.1	8293	8655	402720	7149	N/A
34	11/28/2019	95.4	8291	8778	401212	6976	N/A
35	11/29/2019	94.7	8323	8954	403390	7036	N/A
36	11/30/2019	91.8	7860	8662	401608	7600	N/A
37	12/1/2019	92.5	8412	9147	254813	6035	N/A
38	12/2/2019	96.3	7820	8266	403971	7138	N/A
39	12/3/2019	95	7789	8120	399893	6823	N/A
40	12/4/2019	91.2	7612	7942	400249	6881	N/A

**STIMULATION RECORD
WILEY N GRN WZ 1H**

Stage No.	Stimulation Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	Amount of Proppant (lbs)	Amount of Water (bbbls)	Amount of Nitrogen/other (units)
41	12/7/2019	94.6	7654	7896	402290	7160	N/A
42	12/8/2019	96.6	7773	8280	402463	6956	N/A
43	12/9/2019	94.4	7642	7984	401346	6929	N/A
44	12/9/2019	94.4	7649	8133	400582	6957	N/A
45	12/10/2019	94.2	7614	7890	400604	6865	N/A
46	12/11/2019	97.5	7591	8013	401349	6907	N/A
47	12/12/2019	99.4	7733	8171	401476	6797	N/A
48	12/13/2019	97	7297	8110	400130	6729	N/A
49	12/14/2019	94	7146	7887	403271	7113	N/A
50	12/15/2019	99.7	7400	8058	400753	6752	N/A

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	10/14/2019
Job End Date:	12/15/2019
State:	West Virginia
County:	Wetzel
API Number:	47-103-03098-00-00
Operator Name:	Tribune Resources, LLC
Well Name and Number:	GRNWZ1H
Latitude:	39.50949500
Longitude:	-80.69192500
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,000
Total Base Water Volume (gal):	15,614,516
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
ResCare IC 300L	BJ Services	Iron Control					
				Listed Below			
CI-14	BJ Services	Corrosion Inhibitor					
				Listed Below			

Water	Operator	Carrier							
								Listed Below	
GW-3LDF	BJ Services	Gelling Agent							
								Listed Below	
BIOC11139A	BJ Services	Biocide							
								Listed Below	
Calcium Chloride	BJ Services	Salts							
								Listed Below	
ThinFrac MP	BJ Services	Friction Reducer							
								Listed Below	
FraCare SI-01	BJ Services	Scale Inhibitor							
								Listed Below	
FRW-18	BJ Services	Friction Reducer							
								Listed Below	
HCl, 5.1 - 7.5%	BJ Services	Acidizing							
								Listed Below	
Sand, White	BJ Services	Proppant							

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FRW-15A Prime	BJ Services	Friction Reducer			Listed Below				
					Listed Below				
FraCare Bren C - III NE	BJ Services	Scale Inhibitor			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	85.83935		
			Crystalline Silica (Quartz)		14808-60-7	100.00000	13.15945		
			Water		7732-18-5	100.00000	0.85340		
			Hydrochloric Acid		7647-01-0	7.50000	0.06416		
			Acrylamide Modified Acrylic Polymer		Trade Secret	60.00000	0.02998		
			Petroleum distillates		64742-47-8	30.00000	0.01499		
			Guar Gum		9000-30-0	60.00000	0.00457		
			Distillates (petroleum), hydrotreated light		64742-47-8	30.00000	0.00436		
			Citric Acid		77-92-9	60.00000	0.00374		
			Benzyl-(C12-C16 Alkyl)-Dimethyl-Ammonium Chloride		68424-85-1	30.00000	0.00265		
			Sodium Chloride		7647-14-5	5.00000	0.00250		
			Sorbitan monooleate ethoxylated		Trade Secret	5.00000	0.00250		
			Sorbic monooleate		Trade Secret	5.00000	0.00250		
			Alcohols ethoxylated		Trade Secret	5.00000	0.00250		
			Petroleum Distillates		64742-47-8	30.00000	0.00230		
			Paraffinic Petroleum Distillate		64742-55-8	30.00000	0.00229		
			Methanol		67-56-1	100.00000	0.00143		
			Organo phosphorus salt		Trade Secret	5.00000	0.00125		

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				Purified Water	7732-18-5	99.20000	0.00108	
				Glutaraldehyde	111-30-8	10.00000	0.00088	
				Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	4.90000	0.00071	
				Acetic acid	127-08-2	1.00000	0.00050	
				Ethanol	64-17-5	5.00000	0.00044	
				Polyoxyalkylenes	68951-67-7	30.00000	0.00043	
				1-Butoxy-2-Propanol	5131-66-8	5.00000	0.00038	
				Cyrstaline Silica, Quartz (SiO2)	14808-60-7	5.00000	0.00038	
				Isotridecanol, ethoxylated	9043-30-5	5.00000	0.00038	
				Calcium Chloride	10043-52-4	98.00000	0.00036	
				Fatty Acids	61790-12-3	10.00000	0.00014	
				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	
				Hydrochloric acid	7647-01-0	1.00000	0.00001	
				Formaldehyde	50-00-0	1.00000	0.00001	
				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	
				Polyoxyethylene Sorbitan Monooleate	9005-65-6	0.50000	0.00000	
				Ethoxylated Alcohol	68551-12-2	2.00000	0.00000	
				Ammonium Chloride	12125-02-9	3.00000	0.00000	
				Oleamide DEA	93-83-4	2.00000	0.00000	

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			Sorbitan Monooleate	1338-43-8	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)

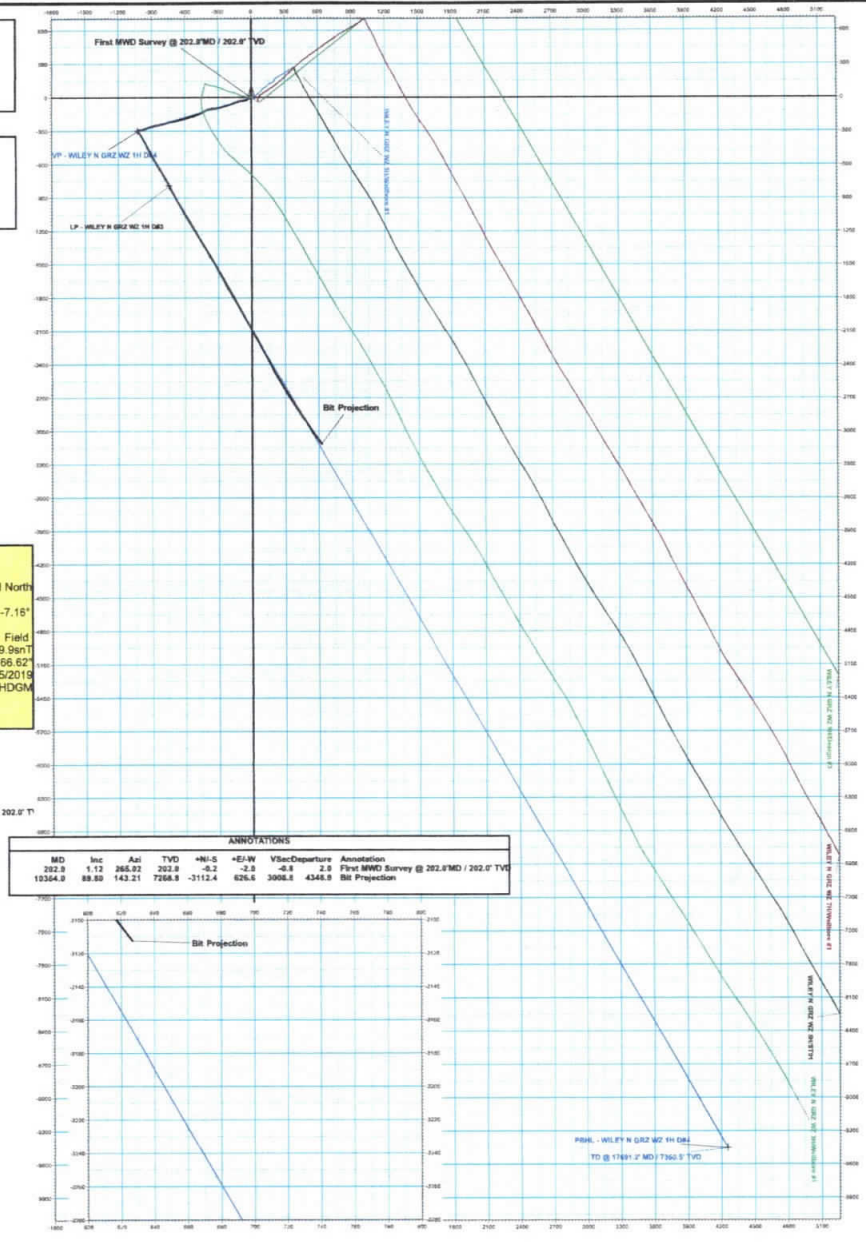
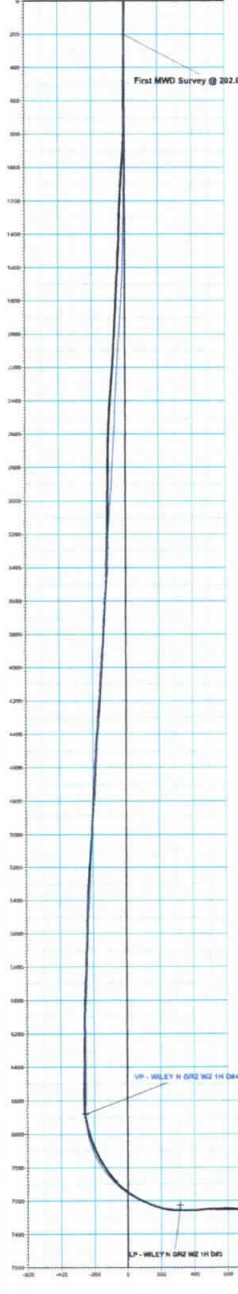
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 Vermont Department of
 Environmental Protection

Company Name: Tribune Resources
 WILEY N GRZ WZ 1H
 Wetzel CO., WV
 Rig: H&P #471
 Created By: Brandon Salazar
 Date: 8/16/2019

WILEY N GRZ WZ 1H
 Wetzel CO., WV
 Q191371 & AM-191188
 Design #4

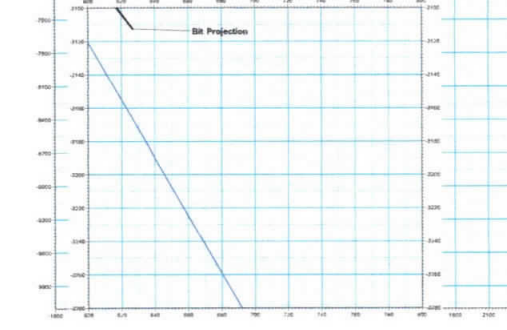


Azimuths to Grid North
 Correction: -7.15'
 Magnetic Field Strength: 52029.9nT
 Dip Angle: 66.62'
 Date: 8/5/2019
 Model: HDGM



ANNOTATIONS

MD	Inc	Azi	TVD	+N-S	+E-W	VSec	Departure	Annotation
202.0	1.12	265.92	202.0	-6.2	-2.0	-0.8	2.8	First MWD Survey @ 202.0 MD / 202.0' TVD
10364.0	89.80	143.21	7268.9	-3112.4	626.6	3008.6	4348.9	Bit Projection



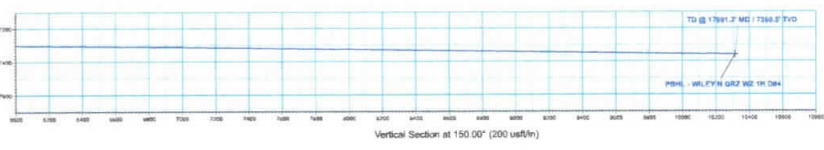
PROJECT DETAILS: Wetzel CO., WV
 Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: West Virginia Northern Zone
 System Datum: Mean Sea Level

WELL DETAILS: WILEY N GRZ WZ 1H


+N-S	+E-W	Northing	Ground Level	Latitude	Longitude
8.3	8.8	38967.42	1287.0	39° 30' 33.862 N	80° 41' 31.572 W

DESIGN ANNOTATIONS

MD	Inc	Azi	TVD	+N-S	+E-W	VSec	Departure	Annotation
602.0	0.00	0.00	602.0	0.0	0.0	0.0	0.0	Build 2°/100'
102.0	5.00	252.01	848.7	-3.1	-18.5	-2.8	11.9	EOB @ 1.09° Inc. / 253.61° Azm / Drop 2°/100'
1195.0	3.00	0.00	1088.4	-6.2	-20.9	-1.1	21.6	EOB @ Vert. / Build 2°/100'
1769.0	13.38	253.61	1769.0	-38.1	-85.8	-23.4	89.8	EOB @ 13.38° Inc. / 355.61° Azm
9239.0	13.38	253.61	9239.0	-289.2	-953.8	-233.9	893.0	Drop 1°/100'
6297.7	0.00	0.00	6188.1	-302.2	-1027.2	-351.9	1072.8	EOB @ Vert.
6797.7	0.00	0.00	6688.1	-302.2	-1027.2	-351.9	1072.8	Build 1°/100'
7852.7	89.58	198.00	7353.0	-794.3	-743.3	316.0	1638.7	EOB @ 89.58° Inc. / 199.99° Azm
14276.9	89.58	198.00	7711.4	-862.0	258.7	7389.0	8127.7	Drop 1°/100'
14284.4	89.15	196.80	7711.6	-8687.7	2687.0	1071.5	8346.2	EOB @ 89.15° Inc. / 196.80° Azm
17991.2	89.15	196.80	7366.5	-8452.4	4356.7	1071.5	11626.5	TO @ 17991.2 MD / 7366.5' TVD



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OPERATOR		Date: 08/17/19	
	Tribune Resources Wiley N GRN WZ 1H Wetzel Co., WV H&P 471		Day: <u>Saturday</u> Spud Date: <u>07/24/19</u> Days Drilling: <u>7</u> Report Time: <u>5:00 AM</u>
	CONTACT INFORMATION		
Loggers:	Zach Chartrand Matthew Fulton	zchartrand@exlog.com mfulton@exlog.com	Cell:(440) 279-3405 Cell:(724) 980-5614
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	8	Operation	Drill Ahead
Hole Depth	16,548' MD	Feet	2,814'
Bit Depth	16,548' MD	Avg. ROP	145 ft/hr
Drig hours	19 hrs	Lag Depth	16,534' MD
Bit hours	81 hrs	Max CG	452u
Bkgnd Gas	325u	Max Cement Gas	
Max Gas	523u	Trip Gas	
Trap Test	573u	Depth of Last Report	13,734' MD
Depth	15,671'	E.S.	437
WT	12.9	CAL	21,480
VIS	50	FILTRATE	4@250
PV	19		
YP	10		
GELS	7/14/17		
CK	2		
H2O	17.50%		
OIL	57.00%		
SOL	23.90%		
CL	38.000		
EX. LIME	3.6		
DRILLING VARIABLES			
Bit #4, Size: 8.75", Type: PDC, Provider: SECURITY, S/N: 13171456, Jets: 5X20			
WOB	38.3K	RPM	109
PP	5,062	SPM	72/72/72
SURVEY	MD: 16461' TVD: 7333.09' AZM: 147.98° INCL: 88.07° VS: 9099.51'		
LITHOLOGY	Lower Marcellus 16420' MD - 16510' MD: 100% CSH: BLK - GYSHBLK, SUBSPLT TO SUBBLKY, MED TO SMTH TXT, BRIT TO FRM, IMBD PYRC NOD & CALC FLK.		
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	6,998 TVD	7122' MD / 6997' TVD / -5686' SS	
Geneseo	7,105 TVD	7263' MD / 7105' TVD / -5793' SS	
Tully	7,142 TVD	7320' MD / 7143' TVD / -5832' SS	
Hamilton	7,157 TVD	7356' MD / 7164' TVD / -5853' SS	
Marcellus	7,225 TVD	7491' MD / 7223' TVD / -5912' SS	
Purcell	7,243 TVD	7542' MD / 7239' TVD / -5928' SS	
Lower Marcellus	7,247 TVD	7570' MD / 7246' TVD / -5935' SS	
Basal Marcellus	N/A	N/A	
Onondaga	7,277 TVD	TBD	
SHOWS	Before	During	Days of Samples: 7
Depth '	ROP		Days of OBM: 5
	Gas		HASPS: -
Depth '	ROP		Trailer #: HD12
	Gas		TS3 S/N#: TGD420
COMMENTS			

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**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 2848 psig		Casing Pressure 3254 psig		Separator Pressure 558 psig		Separator Temperature 103 F			
Oil Production During Test 113		Gas Production During Test 12610		Water Production During Test 77		BBLs 94024		-Salinity	
Oil Gravity 67.4		API		Producing Method (flowing, pumping, gas lift etc.) Flowing					

GAS PRODUCTION

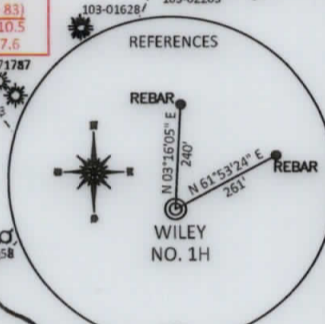
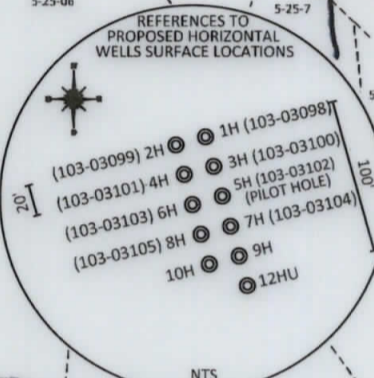
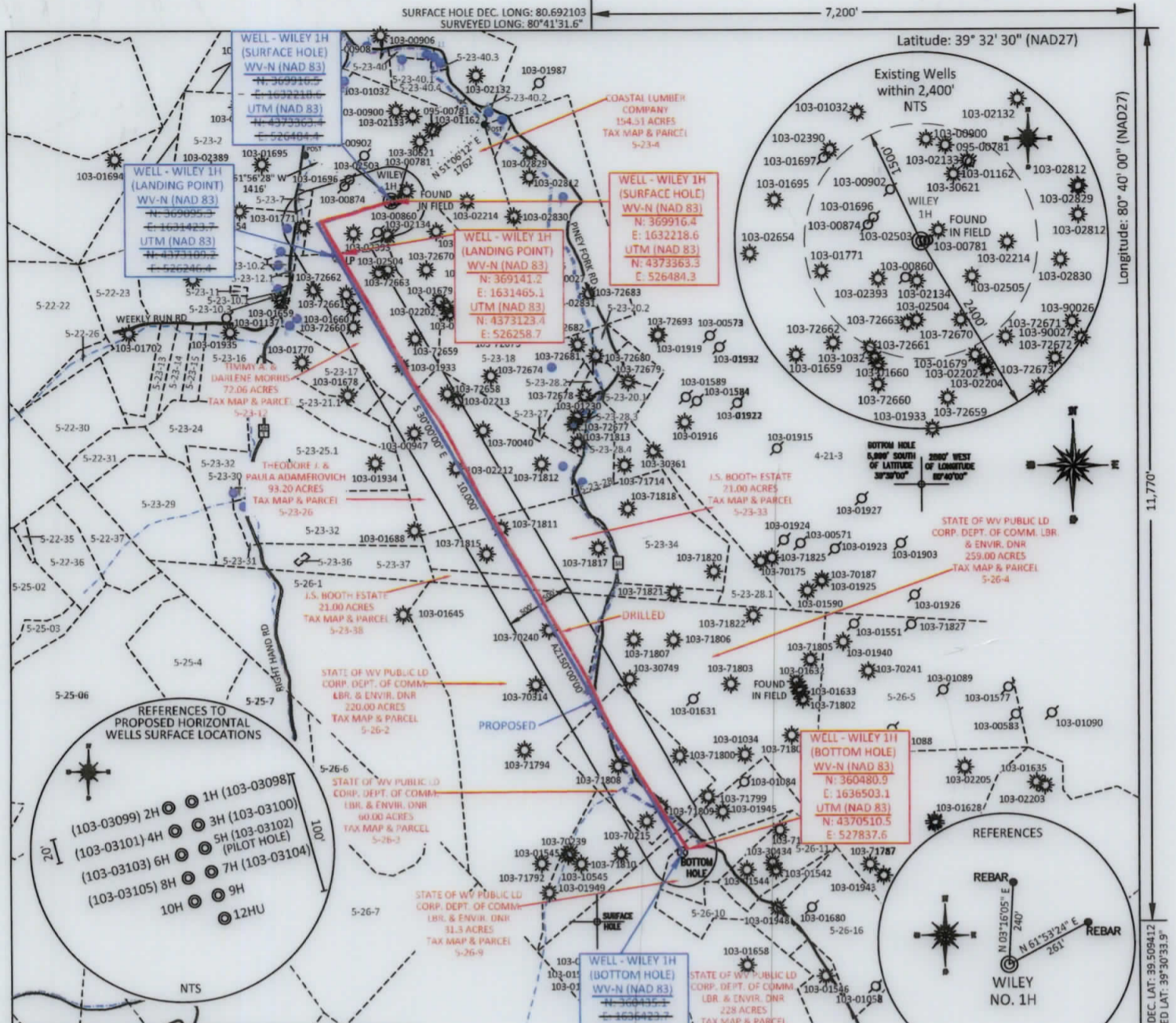
Measurement Method Flange Tap <input checked="" type="checkbox"/> Pipe Tap <input type="checkbox"/> L-10 <input type="checkbox"/>			Positive Choke <input checked="" type="checkbox"/>		
Orifice diameter 2"			Pipe Diameter (inside) 2.90"		
Differential Pressure range 0-1500			Max. Static pressure range 0-800		
Differential			Static		
Gas Gravity (Air = 1.0) Measured .7168 Estimated		Flowing Temperature 89.9 F		Gas Temperature 103 F	
24 Hour Coefficient		24 Hour coefficient pressure PSIA			

TEST RESULTS

Daily Oil 113	Daily Water 77	Daily Gas 12610	Gas-Oil Ratio 111592 scf
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TRIBUNE RESOURCES, LLC
 Well Operator
 BY LEE L. LAWSON
 ITS: REGULATORY/HSE DIRECTOR

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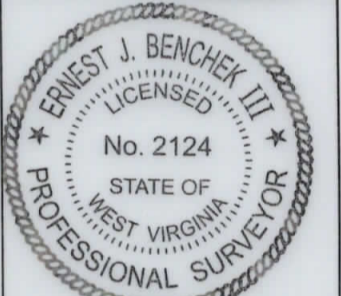
API # & DISTANCE TO WELL	
103-00900	N 03°17'36" E 1307'
103-02133	N 14°39'25" E 1268'
095-00781	N 30°17'42" E 1192'
103-01162	N 32°14'33" E 1192'
103-00902	N 30°28'52" W 766'
103-30621	N 26°15'10" E 956'
103-01696	N 63°12'19" W 681'
FOUND IN FIELD	N 57°49'31" E 266'
103-00781	N 83°20'23" E 95'
103-00874	N 72°46'56" W 711'
103-02503	N 88°18'41" E 45'
103-01771	S 73°34'19" W 1337'
103-02214	S 89°40'14" E 1110'
103-00860	S 23°46'21" W 500'
103-02393	S 49°25'03" W 728'
103-02505	S 55°34'01" E 788'
103-02134	S 06°10'12" W 508'
103-02504	S 03°29'26" W 1004'
103-72663	S 10°01'00" W 1059'
103-72670	S 26°45'36" E 1118'

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

FILE #: TRB1
DRAWING #: 2887
SCALE: PLAT: 1" = 2200'
TICK: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SOURCE: 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:
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:

DATE: JANUARY 14, 2020
OPERATOR'S WELL #: WILEY N GRN WZ 1H AS-DRILLED
API WELL #: 47 103 03098
STATE COUNTY PERMIT
AS-BUILT ELEVATION: 1,286.8'
PINE GROVE, WV - TOPHOLE
QUADRANGLE: CENTER POINT, WV - BOTTOM HOLE
ACREAGE: 154.51 +/-
ACREAGE: 1160.07 +/-
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: 17,677' TVD: 7352.7'
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

