

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

API 47 - 103 - 03469 County Wetzel District Green
Quad Center Point Pad Name Hoge GRN WZ Field/Pool Name _____
Farm name WV DNR Public Lands Corp Well Number Hoge S GRN WZ 4H
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 4370069.7 Easting 526131.7
Landing Point of Curve Northing 4369964.2 Easting 526010.8
Bottom Hole Northing 4366859.1 Easting 527880.6

Elevation (ft) 1,379' 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 12/07/2021 Date drilling commenced 01/27/2022 Date drilling ceased 03/19/2022
Date completion activities began 06/05/2022 Date completion activities ceased 11/01/2022
Verbal plugging (Y/N) N Date permission granted _____ Granted by _____

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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

APPROVED

Reviewed by: [Signature]
03/17/2023

WV Department of
Environmental Protection

API 47- 103 - 03469 Farm name WV DNR Public Lands Corp Well number Hoge S GRN WZ 4H

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"	125'	New	J-55/98		Y
Surface	17-1/2"	13-3/8"	671'	New	J-55/54.5		Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	3504'	New	J-55/40		Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"	5-1/2"	19693'	New	P-110/20		Y
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	188				Surface	8
Surface	HalCem	530	15.6	1.2	113 bbls	Surface	8
Coal							
Intermediate 1	HalCem	1030	15	1.38	253 bbls	Surface	8
Intermediate 2							
Intermediate 3							
Production	HalCem	4295	15.2	1.04	795 bbls	3500'	8
Tubing							

Drillers TD (ft) 19707' MD Loggers TD (ft) 19707' MD

Deepest formation penetrated Marcellus Plug back to (ft) _____

Plug back procedure _____

Kick off depth (ft) 6719'

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 _____ FEB 06 2023

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____ WV Department of Environmental Protection

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

Stacy
03/17/2023

API 47- 103 - 03469 Farm name WV DNR Public Lands Corp Well number Hoge S GRN WZ 4H

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.

Stacy
03/17/2023

API 47- 103 - 03469 Farm name WV DNR Public Lands Corp Well number Hoge S GRN WZ 4H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
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 2556 psi Bottom Hole _____ psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 14364 mcfpd Oil 43 bpd NGL 0 bpd Water 406 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 Schlumberger
Address 4600 J. Barry Ct., Ste. 200 City Canonsburg State PA Zip 15317

Cementing Company Halliburton
Address 1000 Noble Energy Dr City Canonsburg State PA Zip 15317

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

Please insert additional pages as applicable.

Completed by Lee L. Lawson Telephone 337-769-0032
Signature [Signature] Title Regulatory/HSE Director Date 1-30-23

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

[Handwritten Signature]
03/17/2023
[Handwritten Date]

PERFORATION RECORD

Hoge 4H

Stage No.	Perforation Date	Perforated from (MD ft.)	Perforated to (MD ft.)	Number of Perforations	Formations
1	6/4/2022	19674	19474	36	Marcellus
2	6/5/2022	19434	19272	44	Marcellus
3	6/5/2022	19231	19070	44	Marcellus
4	6/6/2022	19029	18867	44	Marcellus
5	6/7/2022	18827	18665	44	Marcellus
6	6/8/2022	18625	18463	44	Marcellus
7	6/8/2022	18423	18261	44	Marcellus
8	6/9/2022	18221	18059	44	Marcellus
9	6/10/2022	18018	17857	44	Marcellus
10	6/13/2022	17816	17654	44	Marcellus
11	6/13/2022	17614	17452	44	Marcellus
12	6/14/2022	17412	17250	44	Marcellus
13	6/15/2022	17210	17048	44	Marcellus
14	6/15/2022	17008	16846	44	Marcellus
15	6/17/2022	16805	16644	44	Marcellus
16	6/17/2022	16603	16441	44	Marcellus
17	6/17/2022	16401	16239	44	Marcellus
18	6/18/2022	16199	16037	44	Marcellus
19	6/19/2022	15997	15835	44	Marcellus
20	6/19/2022	15795	15633	44	Marcellus
21	6/20/2022	15592	15431	44	Marcellus
22	6/21/2022	15390	15228	44	Marcellus
23	6/22/2022	15188	15026	44	Marcellus
24	6/22/2022	14986	14824	44	Marcellus
25	6/26/2022	14784	14622	44	Marcellus
26	6/28/2022	14581	14420	44	Marcellus
27	6/29/2022	14379	14222	44	Marcellus
28	6/29/2022	14177	14015	44	Marcellus
29	6/30/2022	13971	13813	44	Marcellus
30	7/1/2022	13773	13611	44	Marcellus
31	7/1/2022	13571	13409	44	Marcellus
32	7/2/2022	13368	13207	44	Marcellus
33	7/3/2022	13166	13005	44	Marcellus
34	7/4/2022	12964	12802	44	Marcellus
35	7/4/2022	12762	12600	44	Marcellus
36	7/5/2022	12560	12398	44	Marcellus
37	7/6/2022	12358	12196	44	Marcellus
38	7/7/2022	12155	11994	44	Marcellus
39	7/8/2022	11953	11792	44	Marcellus
40	7/8/2022	11751	11589	44	Marcellus
41	7/9/2022	11549	11387	44	Marcellus
42	7/10/2022	11347	11185	44	Marcellus

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PERFORATION RECORD
Hoge 4H

Stage No.	Perforation Date	Perforated from (MD ft.)	Perforated to (MD ft.)	Number of Perforations	Formations
43	7/10/2022	11145	10983	44	Marcellus
44	7/11/2022	10942	10781	44	Marcellus
45	7/12/2022	10740	10579	44	Marcellus
46	7/12/2022	10538	10376	44	Marcellus
47	7/13/2022	10336	10174	44	Marcellus
48	7/14/2022	10134	9972	44	Marcellus
49	7/15/2022	9932	9770	44	Marcellus
50	7/15/2022	9729	9568	44	Marcellus
51	7/16/2022	9527	9366	44	Marcellus
52	7/17/2022	9325	9163	44	Marcellus
53	7/17/2022	9123	8961	44	Marcellus
54	7/18/2022	8921	8759	44	Marcellus
55	7/19/2022	8719	8557	44	Marcellus
56	7/19/2022	8516	8355	44	Marcellus
57	7/20/2022	8314	8253	44	Marcellus
58	7/21/2022	8112	7950	44	Marcellus
59	7/22/2022	7910	7748	44	Marcellus

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STIMULATION RECORD

Hoge 4H

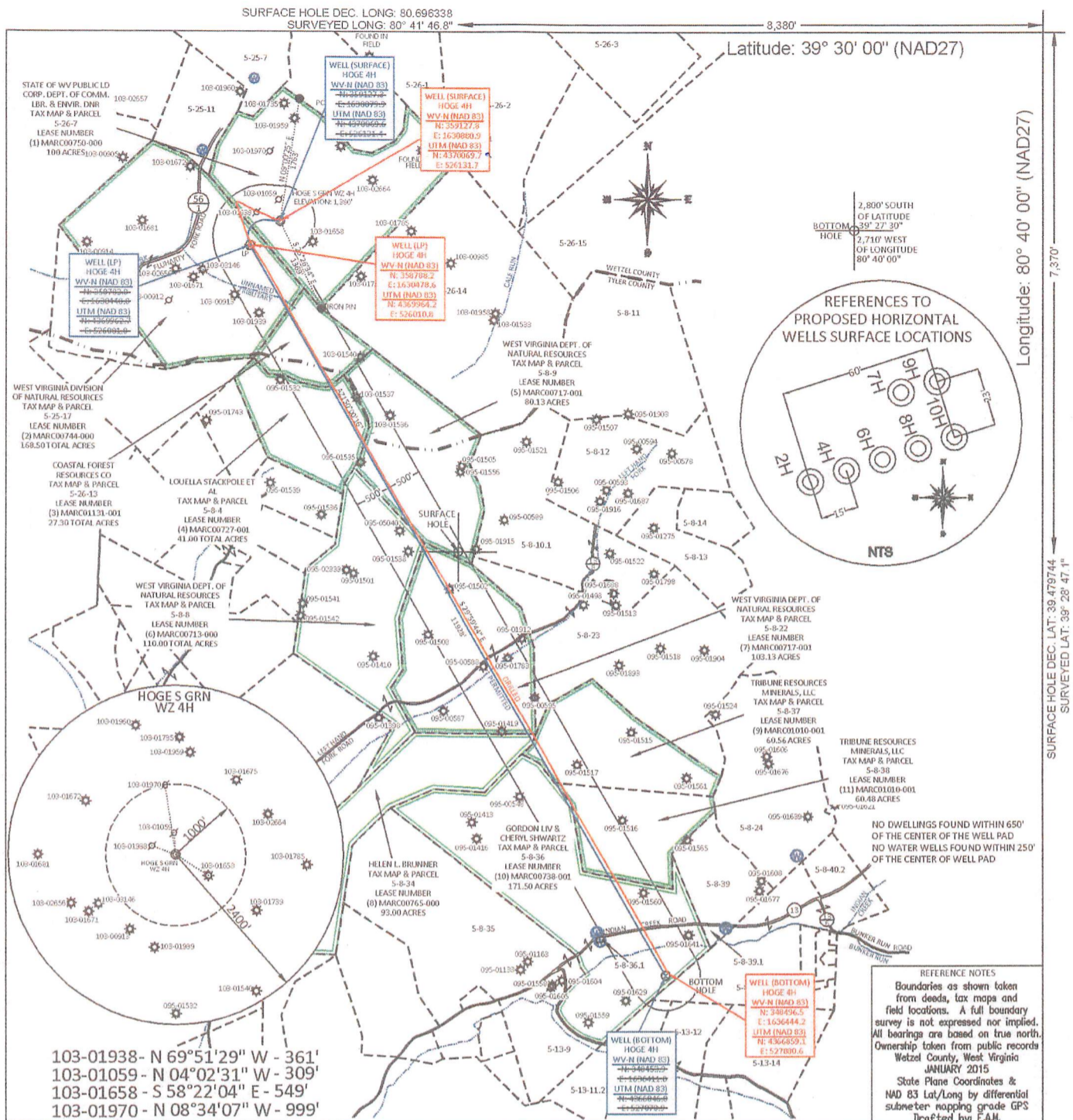
Stage No.	Stimulation Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	Amount of Proppant (lbs)	Amount of Water (bbbls)	Amount of Nitrogen/other (units)
1	6/5/2022	87.2	8175	6301	401500	7374	N/A
2	6/5/2022	89.8	8250	5965	401257	7596	N/A
3	6/6/2022	89.1	8481	7395	400733	7640	N/A
4	6/7/2022	89.8	8028	6481	402784	7311	N/A
5	6/7/2022	90	7926	5400	399960	7398	N/A
6	6/7/2022	90.1	8126	6487	403020	7329	N/A
7	6/9/2022	88.6	8629	6432	400400	7387.4	N/A
8	6/10/2022	89.9	8020	6860	404950	7351	N/A
9	6/12/2022	90	8396	6840	404400	7323	N/A
10	6/13/2022	89.8	8206	6134	400760	7323	N/A
11	6/14/2022	90.1	8126	6487	403020	7329	N/A
12	6/15/2022	88.6	8189	6380	402040	7804	N/A
13	6/15/2022	90.4	8078	6419	399810	7286	N/A
14	6/16/2022	87.4	7896	6524	400493	7324	N/A
15	6/17/2022	90.2	7876	6170	403216	7166	N/A
16	6/17/2022	90.7	8056	6321	400420	7325	N/A
17	6/18/2022	83.5	8309	6275	400146	7421	N/A
18	6/19/2022	89.1	8337	6555	399630	7254	N/A
19	6/19/2022	90.3	8326	6575	399660	7012	N/A
20	6/20/2022	89.9	8058	6459	402548	7270	N/A
21	6/21/2022	87.7	7807	6192	400460	7272	N/A
22	6/22/2022	90.2	7940	7062	401320	7197	N/A
23	6/22/2022	90	7720	6369	405580	7162	N/A
24	6/23/2022	87.6	7628	6462	405408	7243	N/A
25	6/28/2022	90.5	7823	6284	399220	7245	N/A
26	6/29/2022	89.8	7874	6655	396785	7185	N/A
27	6/29/2022	90.2	7999	6702	400280	7145	N/A
28	6/30/2022	89.9	7886	6533	400220	7049	N/A
29	7/1/2022	89.8	7867	6786	400440	7092	N/A
30	7/1/2022	89.3	8124	6931	403000	7189	N/A
31	7/2/2022	89.9	8059	6577	400100	7239	N/A
32	7/3/2022	90.3	7784	6632	399500	7176	N/A
33	7/4/2022	90.2	7629	6734	401780	7165	N/A
34	7/4/2022	90.3	7724	6619	399780	7267	N/A
35	7/5/2022	89.9	7635	7389	401440	7051	N/A
36	7/6/2022	89.6	7661	6986	399368	7187	N/A
37	7/7/2022	89.3	7906	6579	408704	7084	N/A
38	7/8/2022	90.2	7827	6966	400692	7051	N/A
39	7/8/2022	90.2	7578	6592	399954	7357	N/A
40	7/9/2022	89.9	7678	6904	393220	7085	N/A
41	7/10/2022	90.3	7453	6732	401656	7071	N/A
42	7/10/2022	89.7	7562	7621	401900	7104	N/A
43	7/11/2022	89.9	7534	7273	402400	6986	N/A
44	7/12/2022	87.9	7327	7528	400325	7075	N/A
45	7/12/2022	90.5	7684	7385	399878	7067	N/A
46	7/13/2022	89.9	7512	7642	402690	7067.5	N/A
47	7/14/2022	90	7370	7593	399925	7025	N/A
48	7/15/2022	90.1	7205	7536	398691	7002	N/A
49	7/15/2022	90.4	7232	7872	399760	6994	N/A
50	7/16/2022	89.8	7339	7673	400000	7081	N/A
51	7/16/2022	89.4	7497	7181	399532	6989	N/A
52	7/17/2022	89.8	7028	6951	401300	6918	N/A
53	7/18/2022	89.9	7058	7010	407310	6982	N/A
54	7/19/2022	89.5	7035	7815	402161	6878	N/A
55	7/19/2022	90.4	7215	7670	400180	6936	N/A
56	7/20/2022	90.1	7282	7830	399680	7048	N/A
57	7/21/2022	90.6	7154	7211	404630	6974	N/A
58	7/21/2022	90.1	6926	7274	399760	6976	N/A
59	7/22/2022	90.7	7053	6839	403060	6986	N/A

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03/17/2023



FILE #: TRB1

DRAWING #: 2514

SCALE: PLAT - 1" = 2000'
TICK MARK - 1" = 2000'

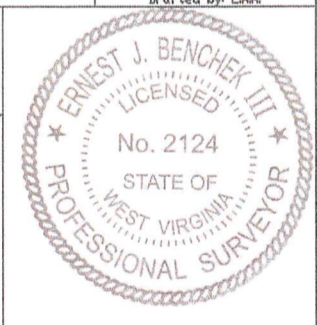
MINIMUM DEGREE OF ACCURACY: 1/200

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:

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: STATE OF WV PUBLIC LD CORP. DEPT. OF COMM. LBR & ENVR. DNR

OIL & GAS ROYALTY OWNER: STATE OF WV PUBLIC LD CORP. DEPT. OF COMM. LBR & ENVR. DNR

LEASE NUMBERS: _____

DATE: NOVEMBER 23, 2022

OPERATOR'S WELL #: HOGES GRN WZ 4H

API WELL #: 47 103 03469
STATE COUNTY PERMIT

AS-BUILT ELEVATION: 1,379'

QUADRANGLE: CENTER POINT, WV

ACREAGE: 100.00 +/-

ACREAGE: 1015.60 +/-

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

DRILLED DEPTH: TVD: 7,403.7' TMD: 19,707'

DESIGNATED AGENT: HARMAN BROWN

ADDRESS: 18396 MOUNTAINEER HIGHWAY

CITY: WILEVILLE STATE: WV ZIP CODE: 26581

03/17/2023

SM

6/5/22 0-00
7/2/22 0-00
West Virginia
Wetzel
47-103-03469-0000
Hoge S GRN WZ 4H
No
No
30.696164
39.479833
NAD27
7,420'
17,790.696



Allyls*	Specific Gravity	Additive Quantity	Mass (lbs)	gal
Water	1.00	17,790.696	17,790.696	gal
Hydrochloric Acid (3.5%)	1.04	0	0	gal
Hydrochloric Acid (7.5%)	1.03	178.013	178.013	gal
ProFib 100	1.05	936	936	gal
ProFE 105	1.26	578	578	lb
ProSlick 977	1.10	343	343	gal
StimStream FR 9800	1.10	15,755	15,755	gal
BioSuite GG123x	1.02	4,458	4,458	gal
ProCheck 170	1.00	1,942	1,942	gal
Sand (100 Mesh Proppant)	2.65	8,874,308	8,874,308	lb
Sand (40/70 White Proppant)	2.65	14,799,879	14,799,879	lb

Ingredients Section:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Mass per Component (LBS)	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments	Claimant Company	Claimant First Name	Claimant Last Name	Claimant Email	Claimant Phone (nnn-aaa-bbbb)
Water	Tribane	Carrier/Base Fluid	Water	7732-18-5	100.00%	17,790.696	0.0000%						
Sand (100 Mesh Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00%	8,874,308	0.0000%						
Sand (40/70 White Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00%	14,799,879	0.0000%						
Hydrochloric Acid (3.5%)	CNR	Acidizing	Hydrochloric Acid (Hydrogen Chloride)	7647-01-0	37.00%	0	0.0000%		CNR	Gregg	Mansewitch	Gmatsewitch@coopermatur	346-808-8482
Hydrochloric Acid (7.5%)	CNR	Acidizing	Water	7732-18-5	85.00%	0	0.0000%		CNR	Gregg	Mansewitch	Gmatsewitch@coopermatur	346-808-8482
			Hydrochloric Acid (Hydrogen Chloride)	7647-01-0	37.00%	0	0.0000%		CNR	Gregg	Mansewitch	Gmatsewitch@coopermatur	346-808-8482
ProFib 100	CNR	Acid Inhibitor	2-Butoxyethanol	1111-76-2	60.00%	936	0.0000%		CNR	Gregg	Mansewitch	Gmatsewitch@coopermatur	346-808-8482
			Proprietary material	68391-11-7	20.00%	0	0.0000%		CNR	Gregg	Mansewitch	Gmatsewitch@coopermatur	346-808-8482
			Proprietary non-ionic surfactant	9043-30-5	20.00%	0	0.0000%		CNR	Gregg	Mansewitch	Gmatsewitch@coopermatur	346-808-8482
			Proprietary corrosion inhibitor	104-55-2	10.00%	0	0.0000%		CNR	Gregg	Mansewitch	Gmatsewitch@coopermatur	346-808-8482
			Proprietary ethoxylated alcohol	84133-90-6	10.00%	0	0.0000%		CNR	Gregg	Mansewitch	Gmatsewitch@coopermatur	346-808-8482
ProFE 105	CNR	Iron Control	Citric Acid	77-92-8	20.00%	578	0.0000%		CNR	Gregg	Mansewitch	Gmatsewitch@coopermatur	346-808-8482
			Acetic Acid	64-19-7	5.00%	0	0.0000%		CNR	Gregg	Mansewitch	Gmatsewitch@coopermatur	346-808-8482
ProSlick 977	ProFrac	Friction Reducer	Petroleum distillates, hydrotreated light	64742-47-8	30.00%	343	0.0000%		ProFrac			info@profrac.com	254-776-3722
			Ethoxylated Alcohol	64742-47-8	7.00%	0	0.0000%		ProFrac			info@profrac.com	254-776-3722
BioSuite GG123x	BioSuite	Bicide	Ammonium chloride	64742-47-8	7.00%	0	0.0000%		ProFrac			info@profrac.com	254-776-3722
			Glutaral	1111-30-8	15.00%	0	0.0000%		BioSuite			info@biosuitegroup.com	713-849-5319
ProCheck 170	ProFrac	Scale Inhibitor	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl	68424-85-1	5.00%	0	0.0000%		BioSuite			info@biosuitegroup.com	713-849-5319
			Methyl alcohol	67-58-1	5.00%	0	0.0000%		ProFrac			info@profrac.com	254-776-3722
StimStream FR 9800	Chemstream	Friction Reducer	Alkanes, C16-20-iso-	90022-59-6	25.00%	0	0.0000%		Chemstream			info@profrac.com	412-999-2049
			Butene, homopolymer	9003-29-6	25.00%	0	0.0000%		Chemstream			info@profrac.com	412-999-2049
			Ethoxylated alcohols (C12-18)	68213-23-0	3.00%	0	0.0000%		Chemstream			info@profrac.com	412-999-2049

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