

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

RECEIVED  
Office of Oil and Gas

AUG 27 2021

WV Department of  
Environmental Protection

API 47-051-02062 County Marshall District Franklin  
Quad New Martinsville 7.5' Pad Name Simms Field/Pool Name \_\_\_\_\_  
Farm name Terry E. & Deborah Simms Well Number Hillrock 7HM  
Operator (as registered with the OOG) Tug Hill Operating, LLC  
Address 380 Southpointe Boulevard, Plaza II, Suite 200 City Canonsburg State PA Zip 15317

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4,399,584.42 Easting 519,682.53  
Landing Point of Curve Northing 4,399,895.42 Easting 519,254.88  
Bottom Hole Northing 4,396,843.32 Easting 521,012.227

Elevation (ft) 1,219.3' 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)  
SOBM; Base oil, osmotic inhibitor, weighting agent, viscosifier, emulsifier, hardness buffer, fluid loss additive, LCM, Shale inhibitor, de-foamer, soaping agent, coagulant, flocculant; specific additives per WSSP and Permit.

Date permit issued 8/10/2018 Date drilling commenced 8/26/19; Top Hole 11/10/19 Date drilling ceased 12/8/2019  
Date completion activities began 6/9/2021 Date completion activities ceased 7/11/2021  
Verbal plugging (Y/N) N Date permission granted n/a Granted by n/a

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 830' Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 1,365' Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 724-730', 824-830' Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

Reviewed by:  
Barry Shlip  
10/01/2021

API 47-051 - 02062 Farm name Terry E. & Deborah Simms Well number Hillrock 7HM

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	36"	30"	120'	NEW	94.5#	N/A	Y
Surface	17 1/2"	13 3/8"	957'	NEW	54.5#	N/A	Y
Coal	17 1/2"	13 3/8"	957'	NEW	54.5#	N/A	Y
Intermediate 1	12 1/4"	9 5/8"	2,830'	NEW	36#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8 3/4"	5 1/2"	19,176'	NEW	20#	N/A	Y
Tubing		2 3/8"	9,588'	NEW	4.7#	N/A	Y
Packer type and depth set							

Comment Details \_\_\_\_\_

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	A	571	15.6	1.18	674	0	8
Surface	A	993	15.6	1.18	1172	0	8
Coal	A	993	15.6	1.18	1172	0	8
Intermediate 1	A	998	15.6	1.18	1178	0	8
Intermediate 2							
Intermediate 3							
Production	A	4521	14.5	1.16	5335	0	8
Tubing							

Drillers TD (ft) 19,220' Loggers TD (ft) n/a  
 Deepest formation penetrated Marcellus Plug back to (ft) n/a  
 Plug back procedure n/a

Kick off depth (ft) 6,138'

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 3 centralizers on surface casing at equal distance.  
 Intermediate - 1 centralizer every other joint.  
 Production - one centralizer every other joint in lateral, one centralizer every joint through curve, one centralizer every other joint to surface.

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 \_\_\_\_\_





# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	6/9/2021
Job End Date:	7/11/2021
State:	West Virginia
County:	Marshall
API Number:	47-051-02062-00-00
Operator Name:	Tug Hill Operating, LLC
Well Name and Number:	Hillrock S 7HM
Latitude:	39.74593590
Longitude:	-80.77026393
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,558
Total Base Water Volume (gal):	22,621,620
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
Water	Tug Hill Operating	Carrier/Base Fluid	Water	7732-18-5	100.00000	86.69291	None
Sand (40/70 White Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	8.60556	None
Sand (100 Mesh Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	3.12235	None
Sand (30/50 White Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	1.18947	None
Hydrochloric Acid (7.5%)	PVS	Acidizing	Water	7732-18-5	85.00000	0.23701	None
			Hydrochloric Acid (Hydrogen Chloride)	7647-01-0	37.00000	0.10317	None
StimStream FR 9800	Chemstream	Friction Reducer	Alkanes, C16-20-iso-	90622-59-6	25.00000	0.01601	None
			Butene, homopolymer	9003-29-6	25.00000	0.01601	None
			Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00192	None



MC MX 9-4743	Multi-Chem	Biocide					
			Sodium Nitrate	7631-99-4	60.00000	0.02201	None
LD-7750W	Multi-Chem	Scale Inhibitor					
			Methanol	67-56-1	60.00000	0.00497	None
			Phosphonic Acid Salt	Proprietary	5.00000	0.00041	None
ProFE 105	ProFrac	Iron Control					
			Citric Acid	77-92-9	100.00000	0.00102	None
ProHib 100	ProFrac	Acid Inhibitor					
			2-Propyn-1-ol compound w/ methyloxirane	38172-91-7	15.00000	0.00013	None
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
Other Chemical(s)	Listed Above	See Trade Name(s) List					
			Water	7732-18-5	85.00000	0.23701	
			Butene, homopolymer	9003-29-6	25.00000	0.01601	
			Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00192	
			Phosphonic Acid Salt	Proprietary	5.00000	0.00041	

\* Total Water Volume sources may include fresh water, produced water, and/or recycled water

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

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)

**HILLROCK 7HM  
PEFORATION RECORD**

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD. Ft.	Number of Perforations	Formation(s)
1	6/9/2021	18,991	19,039	16	Marcellus
2	6/10/2021	18,792	18,938	48	Marcellus
3	6/10/2021	18,618	18,764	48	Marcellus
4	6/10/2021	18,444	18,590	48	Marcellus
5	6/11/2021	18,270	18,416	48	Marcellus
6	6/11/2021	18,096	18,242	48	Marcellus
7	6/11/2021	17,922	18,068	48	Marcellus
8	6/12/2021	17,748	17,894	48	Marcellus
9	6/12/2021	17,574	17,720	48	Marcellus
10	6/12/2021	17,400	17,546	48	Marcellus
11	6/13/2021	17,226	17,372	48	Marcellus
12	6/13/2021	17,052	17,198	48	Marcellus
13	6/13/2021	16,878	17,024	48	Marcellus
14	6/14/2021	16,704	16,850	48	Marcellus
15	6/14/2021	16,530	16,676	48	Marcellus
16	6/14/2021	16,356	16,502	48	Marcellus
17	6/15/2021	16,182	16,328	48	Marcellus
18	6/15/2021	16,008	16,154	48	Marcellus
19	6/16/2021	15,834	15,980	48	Marcellus
20	6/16/2021	15,660	15,806	48	Marcellus
21	6/16/2021	15,486	15,632	48	Marcellus
22	6/16/2021	15,312	15,458	48	Marcellus
23	6/17/2021	15,138	15,284	48	Marcellus
24	6/17/2021	14,964	15,110	48	Marcellus
25	6/18/2021	14,790	14,936	48	Marcellus
26	6/18/2021	14,616	14,762	48	Marcellus
27	6/19/2021	14,442	14,588	48	Marcellus
28	6/19/2021	14,268	14,414	48	Marcellus
29	6/20/2021	14,094	14,240	48	Marcellus
30	6/20/2021	13,920	14,066	48	Marcellus
31	6/22/2021	13,746	13,892	48	Marcellus
32	6/21/2021	13,572	13,718	48	Marcellus
33	6/21/2021	13,398	13,544	48	Marcellus
34	6/21/2021	13,224	13,370	48	Marcellus
35	6/22/2021	13,050	13,196	48	Marcellus
36	6/22/2021	12,876	13,022	48	Marcellus
37	6/22/2021	12,702	12,848	48	Marcellus
38	6/23/2021	12,528	12,674	48	Marcellus
39	6/23/2021	12,354	12,500	48	Marcellus
40	6/23/2021	12,180	12,326	48	Marcellus
41	6/24/2021	12,006	12,152	48	Marcellus

10/01/2021

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD. Ft.	Number of Perforations	Formation(s)
42	6/24/2021	11,832	11,978	48	Marcellus
43	6/24/2021	11,658	11,804	48	Marcellus
44	6/24/2021	11,484	11,630	48	Marcellus
45	6/25/2021	11,310	11,456	48	Marcellus
46	6/25/2021	11,136	11,282	48	Marcellus
47	6/25/2021	10,962	11,108	48	Marcellus
48	6/26/2021	10,788	10,934	48	Marcellus
49	6/27/2021	10,614	10,760	48	Marcellus
50	6/27/2021	10,440	10,586	48	Marcellus
51	6/27/2021	10,266	10,412	48	Marcellus
52	6/27/2021	10,092	10,238	48	Marcellus
53	6/28/2021	9,918	10,064	48	Marcellus
54	6/28/2021	9,744	9,890	48	Marcellus
55	6/28/2021	9,570	9,716	48	Marcellus
56	6/28/2021	9,396	9,542	48	Marcellus
57	7/6/2021	9,222	9,368	48	Marcellus
58	7/7/2021	9,048	9,194	48	Marcellus
59	7/7/2021	8,874	9,020	48	Marcellus
60	7/8/2021	8,700	8,846	48	Marcellus
61	7/8/2021	8,526	8,672	48	Marcellus
62	7/9/2021	8,352	8,498	48	Marcellus
63	7/9/2021	8,178	8,324	48	Marcellus
64	7/10/2021	8,004	8,150	48	Marcellus
65	7/10/2021	7,830	7,976	48	Marcellus
66	7/11/2021	7,656	7,802	48	Marcellus

10/01/2021



**HILLROCK 7HM**  
**STIMULATION INFORMATION PER STAGE**

Stage No.	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)
1	78.00	7,625	5000	4475	251060	6,649	0
2	88.00	7,979	6330	5140	449120	8,638	0
3	89.00	7,866	6063	5335	437420	8,505	0
4	89.00	7,804	5801	5476	444760	8,551	0
5	89.00	7,817	5855	5559	449500	8,541	0
6	90.00	7,746	5589	5210	446500	8,533	0
7	89.00	7,595	5669	5015	440300	8,406	0
8	89.00	7,791	5449	4952	437800	8,422	0
9	89.00	7,558	5292	4766	436420	8,322	0
10	89.00	7,364	5579	5000	436560	8,277	0
11	89.00	7,580	5452	4918	447340	8,326	0
12	89.00	7,784	5887	5032	434560	8,398	0
13	90.00	7,666	5991	4971	442900	8,410	0
14	87.00	8,200	6430	4719	176380	7,478	0
15	90.00	8,060	6404	5022	437380	8,457	0
16	89.00	7,693	5606	5248	439280	9,687	0
17	89.00	7,566	6105	4835	431560	8,329	0
18	87.00	7,388	5146	5257	441460	8,410	0
19	87.00	7,269	5325	5326	445560	8,461	0
20	89.00	7,552	5656	5209	439540	8,338	0
21	90.00	7,484	5810	5339	448640	8,493	0
22	89.00	7,361	5596	5088	438700	8,285	0
23	90.00	7,456	5260	5375	441640	8,367	0
24	90.00	7,656	5327	5198	440900	8,463	0
25	89.00	7,652	5774	5007	439820	8,304	0
26	89.00	7,539	5809	4532	445510	8,412	0
27	89.00	7,539	5568	4401	433500	8,232	0
28	88.00	7,587	5328	4814	369880	7,460	0
29	89.00	7,571	5737	4795	434540	8,346	0
30	89.00	7,404	6034	4863	442920	8,404	0
31	89.00	7,343	5449	4996	440880	8,271	0
32	89.00	7,367	5874	5089	439540	8,312	0

Stage No.	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)
33	89.00	7,288	5822	4923	441720	8,333	0
34	90.00	7,275	7128	5252	440760	8,303	0
35	89.00	7,257	5694	5334	439100	8,245	0
36	89.00	7,253	5583	5096	435300	8,183	0
37	89.00	7,402	6192	5161	443060	8,294	0
38	89.00	7,286	5566	5088	433900	8,182	0
39	89.00	7,142	5687	5260	449100	8,519	0
40	90.00	7,374	5850	5115	435300	8,171	0
41	90.00	7,141	5419	4923	442220	8,368	0
42	89.00	7,191	5429	5206	440600	8,258	0
43	89.00	7,117	5632	5100	443640	8,308	0
44	89.00	7,163	5755	4896	437560	8,122	0
45	88.00	7,082	5480	5025	437320	8,087	0
46	89.00	6,980	5654	5549	445800	8,280	0
47	89.00	7,118	8058	5525	443320	8,158	0
48	89.00	7,159	5519	5145	438300	8,099	0
49	90.00	7,185	5524	5140	435980	8,118	0
50	90.00	6,979	5767	5860	444100	8,215	0
51	89.00	7,104	5907	5475	445120	8,181	0
52	89.00	6,995	5460	5080	438880	8,090	0
53	90.00	6,943	6046	5531	443040	8,152	0
54	89.00	6,733	5472	5310	441180	8,127	0
55	89.00	6,889	5665	5366	432060	8,070	0
56	90.00	6,880	6106	5195	438460	8,070	0
57	89.00	6,877	5928	6106	441260	8,137	0
58	90.00	6,851	6045	5384	451850	8,181	0
59	90.00	6,781	5445	5297	434720	8,024	0
60	90.00	6,804	5481	5445	447440	8,330	0
61	89.00	6,631	5777	5175	439200	8,240	0
62	90.00	6,645	5462	5258	441240	8,218	0
63	90.00	6,567	7255	4607	442800	8,232	0
64	89.00	6,658	6222	4898	442900	8,125	0
65	88.00	6,713	5944	4851	431020	7,898	0
66	78.00	8,269	5856	4753	8000	1,805	0

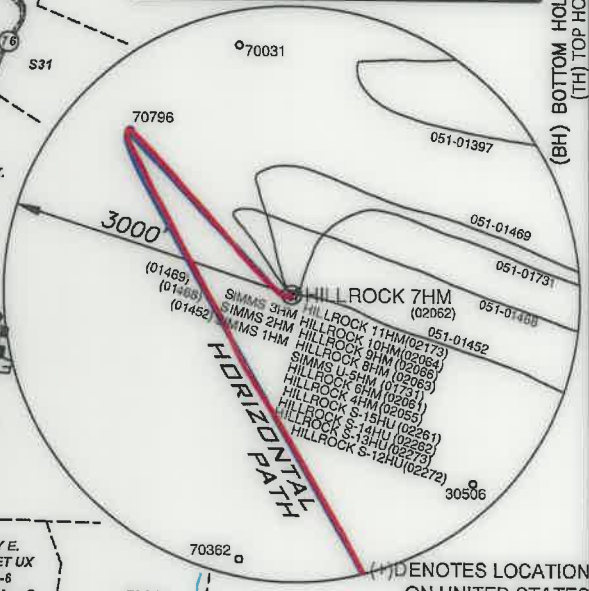
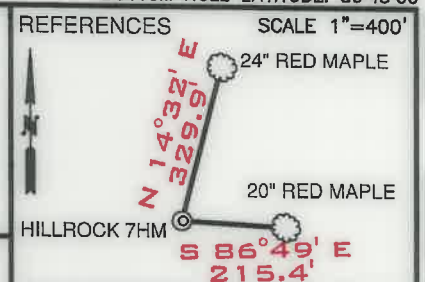
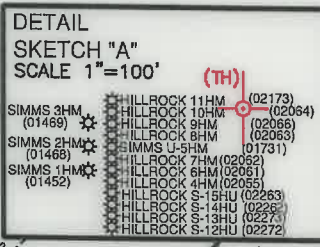
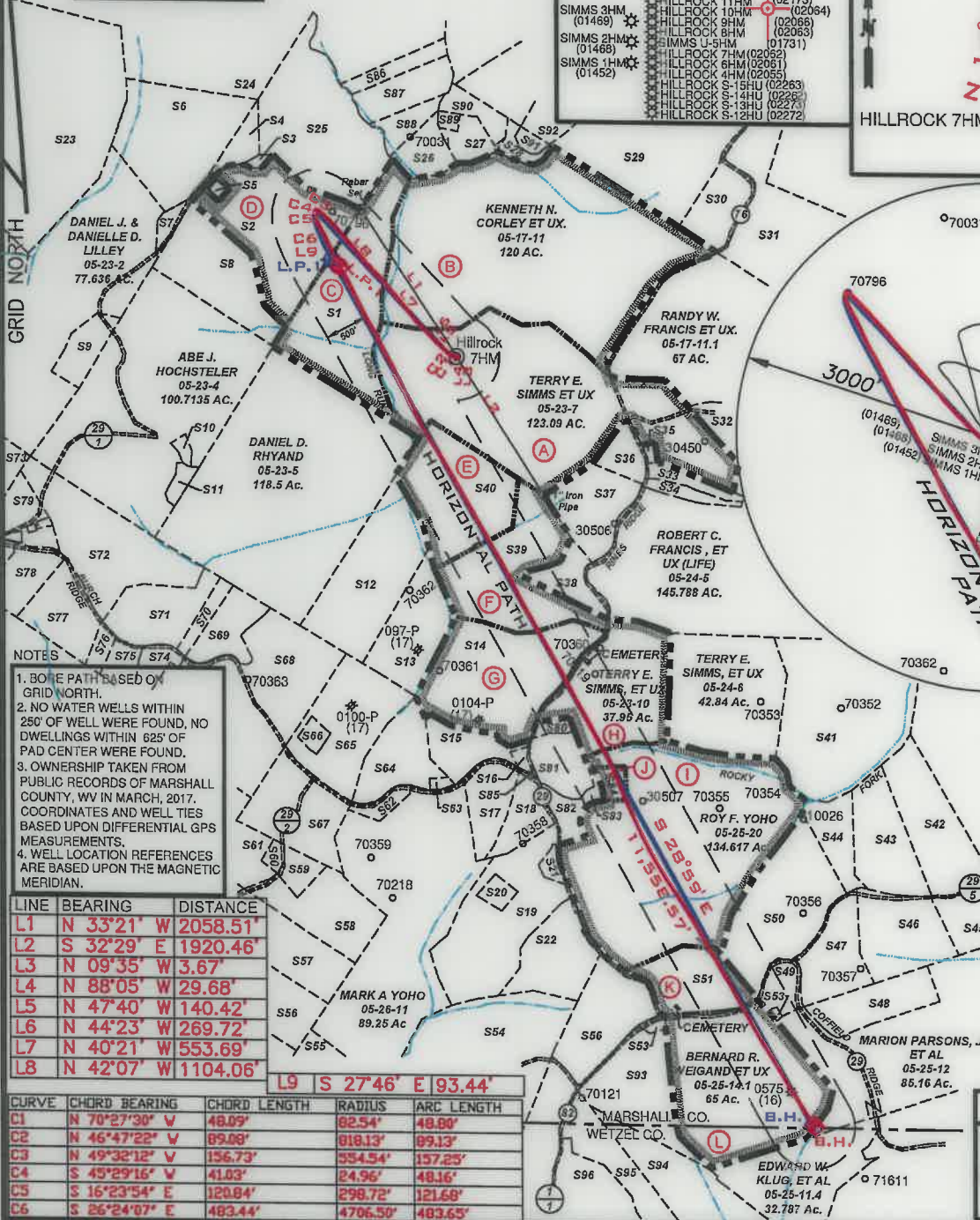
## HILLROCK 7HM

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
Maxton	1931	2025	1933	2028	Sandstone
Big Lime	2025	2067	2028	2071	Limestone
Big Injun	2067	2384	2071	2404	Sandstone
Weir	2384	2599	2404	2651	Sandstone
Berea	2599	2841	2651	2942	Sandstone
Gordon	2841	2907	2942	3024	Sandstone
Fifty Foot	2907	3507	3024	3764	Sandstone
Speechley	3507	4921	3764	5492	Sandstone
Benson	4921	5297	5492	5951	Sandstone
Alexander	5297	5899	5951	6608	Siltstone
Rhinestreet	5899	6309	6608	7069	Black Shale
Middlesex	6309	6384	7069	7182	Black Shale
Geneseo/Burkett	6384	6408	7182	7226	Black Shale
Tully	6408	6445	7226	7303	Limestone
Hamilton	6445	6500	7303	7467	Gray Shale
Marcellus	6500	-	7467	-	Black Shale

form ww6

# HILLROCK LEASE WELL 7HM 716.228± ACRES

ASDRILLED LEG  
PERMITTED LEG



- NOTES**
1. BONE PATH BASED ON GRID NORTH.
  2. NO WATER WELLS WITHIN 250' OF WELL WERE FOUND. NO DWELLINGS WITHIN 625' OF PAD CENTER WERE FOUND.
  3. OWNERSHIP TAKEN FROM PUBLIC RECORDS OF MARSHALL COUNTY, WV IN MARCH, 2017. COORDINATES AND WELL TIES BASED UPON DIFFERENTIAL GPS MEASUREMENTS.
  4. WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN.

LINE	BEARING	DISTANCE
L1	N 33°21' W	2058.51'
L2	S 32°29' E	1920.46'
L3	N 09°35' W	3.67'
L4	N 88°05' W	29.68'
L5	N 47°40' W	140.42'
L6	N 44°23' W	269.72'
L7	N 40°21' W	553.69'
L8	N 42°07' W	1104.06'
L9	S 27°46' E	93.44'

CURVE	CHORD BEARING	CHORD LENGTH	RADIUS	ARC LENGTH
C1	N 70°27'30" V	48.09'	82.54'	48.09'
C2	N 46°47'22" V	89.08'	818.13'	89.13'
C3	N 49°32'12" V	156.73'	554.54'	157.25'
C4	S 45°29'16" V	41.03'	24.96'	48.16'
C5	S 16°23'54" E	120.84'	298.72'	121.68'
C6	S 26°24'07" E	483.44'	4706.50'	483.65'

**SURFACE HOLE**  
UTM. NAD83, ZONE 17  
IN METERS  
N) 4,399,584.42  
E) 519,682.63

**LANDING POINT 1**  
UTM. NAD83, ZONE 17  
IN METERS  
N) 4,399,895.42  
E) 519,254.88

**BOTTOM HOLE**  
UTM. NAD83, ZONE 17  
IN METERS  
N) 4,396,843.32  
E) 521,012.22

**LEGEND**

- LEASED TRACTS
- SURFACE TRACTS
- UNIT BOUNDARY
- (A) LEASE # (SEE 6A1 FORM)

FILE NUMBER \_\_\_\_\_

DRAWING NUMBER HILLROCK\_WP\_7HM

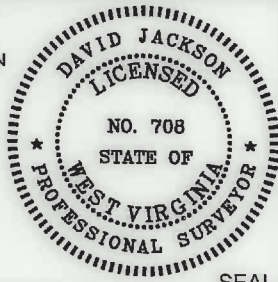
SCALE 1" = 2000'

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 RULES ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION

*David L Jackson*



JACKSON SURVEYING INC.  
P.O. Box 1460  
Clarksburg, WV 26302  
304-623-5851

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

DATE: APRIL 07, 2021

OPERATORS WELL NO. HILLROCK 7HM

API WELL NO. 47-051-02062

STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X

LOCATION ELEVATION 1219.3' WATERSHED (HUC 10) FISH CREEK

DISTRICT FRANKLIN COUNTY MARSHALL

QUADRANGLE NEW MARTINSVILLE 7.5' LEASE NUMBER \_\_\_\_\_ SEE WW-6A1 Form

SURFACE OWNER TERRY E. & DEBORAH SIMMS ACREAGE 1020.09

OIL & GAS ROYALTY OWNER TERRY E. & DEBORAH L. SIMMS, ET AL - SEE WW-6A1 FORM LEASE ACREAGE 319.91

PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_  
\_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE (SPECIFY) ASDRILLED

\_\_\_ PLUG & ABANDON \_\_\_ CLEAN OUT & REPLUG \_\_\_

TARGET FORMATION MARCELLUS ESTIMATED DEPTH TVD: 6,585' TMD: 19,220'

WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER CT CORPORATION SYSTEM

ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107 ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

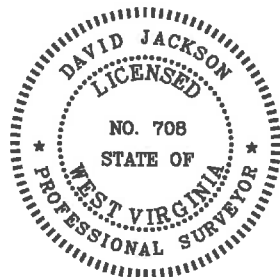
COUNTY NAME  
PERMIT



**HILLROCK LEASE  
WELL 7HM  
716.228± ACRES**

Number	TAX MAP-PARCEL	ADJOINER OWNER	ACRES
S1	05-23-06	James A. Channing, et al	48.0
S2	05-18-21	Curtis E. & Michelle J. Hall	43.119
S3	05-18-21.3	Hilda M. Wayt-Gilbertson (Life)	0.811
S4	05-18-21.1	Rodney & Rhonda Jackson	5.47
S5	05-18-21.2	David P. Lissan, et ux (Life)	1.0
S6	05-18-22	Rodney & Rhonda Jackson	30.345
S7	05-23-2.1	William L. & Janice M. Wayne	2.364
S8	05-23-03	Abe J. Hochstetler	50.0
S9	05-23-2.2	Jessica N. & Andrew L. Jones	7.636
S10	05-23-4.2	James S. & Jeanne B. Hall	1.169
S11	05-23-4.1	James S. & Jeanne B. Hall	2.1575
S12	05-23-08	Carl David & Suzanne L. Guseman	29.5
S13	05-23-9.3	Linda D. Greathouse	17.5
S14	05-23-11.1	John H. & Sonya D. Holliday	46.482
S15	05-23-11.4	Evelyn L. Hudson	10.879
S16	05-23-11.2	Evelyn Hudson	1.154
S17	05-23-11.3	Colin R. Yoho	11.29
S18	05-23-11.5	Roy F. Yoho	9.25
S19	05-25-18	Joseph Johnson, et ux (Life)	37.746
S20	05-25-18.1	Pamela Joan Ferrell, et vir	2.491
S21	05-25-19	Joseph Johnson, et ux (Life)	1.973
S22	05-25-17	Emily Jones Irrevocable Trust	22.790
S23	05-18-24	Duane Brunn	102.0
S24	05-18-23	Blaine E. Channing, et al	110.0
S25	05-18-20	Wayne E. Channing, et al	75.60
S26	05-18-31	Kenneth E. Rastall	6.94
S27	05-18-32	Kenneth E. Rastall	5.335
S28	05-17-12	James A. & Jill C. Corley	3.33
S29	05-17-10	James A. Corley, et al	92.61
S30	05-17-9.3	James A. Corley, et ux	12.478
S31	05-17-9.4	Vicki L. Bowen	60.3
S32	05-24-01	Linda L. Hendrickson	175.0
S33	05-24-5.1	James D. Watkins, et ux	4.60
S34	05-24-5.2	James D. Watkins, et ux	3.151
S35	05-23-7.1	H.J. Weigand, et ux	0.549
S36	05-23-7.2	H.J. Weigand, et ux	6.354
S37	05-24-5.5	H.J. Weigand, et ux	17.194
S38	05-24-5.3	Thomas V. Tuttle, et ux	8.543
S39	05-24-5.4	Thomas V. Tuttle, et ux	38.224
S40	05-23-8.1	William & Virginia Roupe	34.0
S41	05-23-04	Abe J. Hochstetler	100.7235
S42	05-25-1.3	Michael E. & Annie A. Chapman	26.20
S43	05-25-1.2	William Jr. & Andrea J. Dubiel	20.10
S44	05-25-1.1	Ryan A. & Jacqueline E. Layman	9.79
S45	05-25-13.3	William M. Sr. & Cynthia A. Ferda	17.21
S46	05-25-1.5	Ryan J. Bratton	21.35
S47	05-25-13	Nicholas J. & Debra L. Klug	16.014
S48	05-25-12.1	Kent & Betty Mason	15.0
S49	05-25-13.2	David A. Klug	5.89
S50	05-25-01	Michael L. Mason	35.43
S51	05-25-14	Roy F. Yoho	23.0

Number	TAX MAP-PARCEL	ADJOINER OWNER	ACRES
S52	05-25-16	Emily Jones Irrevocable Trust	23.5
S53	05-25-16.2	Rodney J. Loy	1.087
S54	05-26-12	Marjorie Ann Stoneking (Life)	153.969
S55	05-26-13	Marjorie Ann Stoneking (Life)	40.0
S56	05-26-10	Robert D. & Bonnie L. Oliver Family Trust	24.94
S57	05-26-09	Robert D. & Bonnie L. Oliver Family Trust	21.75
S58	05-26-08	Richard Joseph Otte, et ux	18.27
S59	05-26-20	Donald Lee Anderson, et al	4.2
S60	05-26-21	Richard Joseph Otte, et ux	1.25
S61	05-26-22	Richard Joseph Otte, et ux	8.3
S62	05-23-12	Mark A. Yoho	3.05
S63	05-23-13.1	James R. & Pamela J. Ferrell	0.7625
S64	05-23-13	Linda D. Greathouse	14.24
S65	05-23-9.2	Linda D. Greathouse	25.58
S66	05-23-9.4	Jackson R. Sr. & Deanna L. Davis	2.087
S67	05-23-9.1	John W. Van Orden, et ux	23.376
S68	05-23-14	Dominion Transmission, Inc.	59.5
S69	05-23-15	Virginia Ethel Henry Est.	15.5
S70	05-23-16.1	Donald B. Henry	1.97
S71	05-23-16	Roy Friend Yoho Sr.	18.03
S72	05-23-18	Abe J. Hochstetler	35.382
S73	05-23-01	Patricia Accettolo, et al	146.66
S74	05-23-17.3	William & Katherine Flewelling	5.018
S75	05-23-17	Tammy & Thomas E. Brown	4.62
S76	05-23-17.4	Tammy D. Meadows	2.605
S77	05-23-17.2	Dick Jr. & Carol J. Rowan	14.92
S78	05-23-17.1	Curtis E. Hall, et ux	10.051
S79	05-23-18.1	Mark A. Yoho	7.8
S80	05-25-11.7	Bryan L. Huggins	1.835
S81	05-25-11	Roy F. Yoho	3.445
S82	05-25-20.3	James A. & Jo C. Estep	4.49
S83	05-25-20.2	James M. Zombotti	1.347
S84	05-25-20.1	James M. Zombotti	2.746
S85	05-23-11.6	T.H. Exploration II, LLC & Atinum Marcellus I, LLC	0.094
S86	05-18-30	Jon Schmidt, et al	5.46
S87	05-18-13.10	Carl Berg	10.88
S88	05-18-29	Carl B. Berg	5.319
S89	05-18-32.1	Lori D. Carpenter	1.165
S90	05-18-13.8	Lori D. Carpenter	5.545
S91	05-17-12.1	Williams Ohio Valley Midstream, LLC	1.67
S92	05-17-10.5	Williams Ohio Valley Midstream, LLC	4.24
S93	05-25-16.1	David L. Cunningham	6.34
S94	12-02-14	David L. Cunningham	56.23
S95	12-02-14.2	John G. Jr. & Geraldine M. Rogers	25.1
S96	12-02-14.1	Sammy J. Greathouse, Sr. (Life) and Sammy J. Greathouse, Jr.	18.67



P.S. 708

*David L Jackson*

<b>SURFACE HOLE</b> UTM. NAD83, ZONE 17 IN METERS N) 4,399,584.44 E) 519,682.70
<b>LANDING POINT 1</b> UTM. NAD83, ZONE 17 IN METERS N) 4,399,921.80 E) 519,227.25
<b>BOTTOM HOLE</b> UTM. NAD83, ZONE 17 IN METERS N) 4,396,841.02 E) 521,005.67 <b>10/01/2021</b>



**TUG HILL  
OPERATING**

OPERATOR'S  
WELL #: HILLROCK 7HM  
DISTRICT: Franklin  
COUNTY: Marshall  
STATE: WV  
API #: 47-051-02062

**WELL PLAT**  
**PAGE 2 OF 2**  
**DATE: 04/07/2021**