

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 47-051-02064 County Marshall District Franklin  
Quad New Martinsville 7.5' Pad Name Simms Field/Pool Name \_\_\_\_\_  
Farm name Terry E. & Deborah Simms Well Number Hillrock 10HM  
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 4,399,599.20 Easting 519,682.44  
Landing Point of Curve Northing 4,399,105.31 Easting 520,520.70  
Bottom Hole Northing 4,396,636.71 Easting 521,882.47

Elevation (ft) 1,219.5' 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 Conduc. 8/24/19; Top Hole 12/28/19 Date drilling ceased 1/18/2020  
Date completion activities began 5/7/2021 Date completion activities ceased 5/21/2021  
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:  
*Benny Hill*  
10/01/2021

API 47-051 - 02064 Farm name Terry E. & Deborah Simms Well number Hillrock 10HM

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"	927'	NEW	54.5#	N/A	Y
Coal	17 1/2"	13 3/8"	927'	NEW	54.5#	N/A	Y
Intermediate 1	12 1/4"	9 5/8"	2,829'	NEW	36#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8 3/4"	5 1/2"	16,851'	NEW	20#	N/A	Y
Tubing		2 3/8"	8,426'	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	200	15.6	1.18	236	0	8
Surface	A	980	15.6	1.18	1192	0	8
Coal	A	980	15.6	1.18	1192	0	8
Intermediate 1	A	992	15.6	1.18	1176	0	8
Intermediate 2							
Intermediate 3							
Production	A	3963	14.5	1.17	4654	0	8
Tubing							

Drillers TD (ft) 16,871' Loggers TD (ft) n/a  
 Deepest formation penetrated Marcellus Plug back to (ft) n/a  
 Plug back procedure n/a

Kick off depth (ft) 6,940'

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 \_\_\_\_\_





**HILLROCK 10HM  
PEFORATION RECORD**

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD. Ft.	Number of Perforations	Formation(s)
1	5/7/2021	16,489	16,635	48	Marcellus
2	5/7/2021	16,315	16,468	48	Marcellus
3	5/8/2021	16,140	16,294	48	Marcellus
4	5/8/2021	15,966	16,119	48	Marcellus
5	5/8/2021	15,791	15,945	48	Marcellus
6	5/8/2021	15,617	15,770	48	Marcellus
7	5/9/2021	15,442	15,596	48	Marcellus
8	5/9/2021	15,268	15,421	48	Marcellus
9	5/9/2021	15,093	15,247	48	Marcellus
10	5/10/2021	14,919	15,072	48	Marcellus
11	5/10/2021	14,744	14,898	48	Marcellus
12	5/10/2021	14,570	14,723	48	Marcellus
13	5/10/2021	14,395	14,549	48	Marcellus
14	5/11/2021	14,221	14,374	48	Marcellus
15	5/11/2021	14,046	14,200	48	Marcellus
16	5/11/2021	13,872	14,025	48	Marcellus
17	5/12/2021	13,697	13,851	48	Marcellus
18	5/12/2021	13,523	13,676	48	Marcellus
19	5/12/2021	13,348	13,502	48	Marcellus
20	5/13/2021	13,174	13,327	48	Marcellus
21	5/13/2021	12,999	13,153	48	Marcellus
22	5/13/2021	12,825	12,978	48	Marcellus
23	5/13/2021	12,650	12,804	48	Marcellus
24	5/13/2021	12,476	12,629	48	Marcellus
25	5/14/2021	12,301	12,455	48	Marcellus
26	5/14/2021	12,127	12,280	48	Marcellus
27	5/14/2021	11,952	12,106	48	Marcellus
28	5/15/2021	11,778	11,931	48	Marcellus
29	5/15/2021	11,603	11,757	48	Marcellus
30	5/15/2021	11,429	11,582	48	Marcellus
31	5/15/2021	11,254	11,408	48	Marcellus
32	5/15/2021	11,080	11,233	48	Marcellus
33	5/16/2021	10,905	11,059	48	Marcellus
34	5/16/2021	10,731	10,884	48	Marcellus
35	5/16/2021	10,556	10,710	48	Marcellus
36	5/16/2021	10,382	10,535	48	Marcellus
37	5/17/2021	10,207	10,361	48	Marcellus
38	5/17/2021	10,033	10,186	48	Marcellus
39	5/17/2021	9,858	10,012	48	Marcellus
40	5/18/2021	9,684	9,837	48	Marcellus
41	5/18/2021	9,509	9,663	48	Marcellus

10/01/2021

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD. Ft.	Number of Perforations	Formation(s)
42	5/18/2021	9,335	9,488	48	Marcellus
43	5/19/2021	9,160	9,314	48	Marcellus
44	5/19/2021	8,986	9,139	48	Marcellus
45	5/19/2021	8,811	8,965	48	Marcellus
46	5/19/2021	8,637	8,790	48	Marcellus
47	5/20/2021	8,462	8,616	48	Marcellus
48	5/20/2021	8,288	8,441	48	Marcellus
49	5/20/2021	8,113	8,267	48	Marcellus
50	5/20/2021	7,939	8,092	48	Marcellus
51	5/21/2021	7,764	7,918	48	Marcellus
52	5/21/2021	7,590	7,743	48	Marcellus

10/01/2021

**HILLROCK 10HM**  
**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	80.00	7662	5000	4816	427020	8,893	0
2	88.00	7602	5832	4913	440400	8,790	0
3	88.00	7503	5525	4972	446760	8,543	0
4	89.00	7456	5402	5543	442420	8,370	0
5	89.00	7465	5410	5327	445020	8,621	0
6	89.00	7450	5435	5216	449300	8,687	0
7	89.00	7404	5613	5341	444640	8,446	0
8	89.00	7335	5397	5643	437860	8,297	0
9	89.00	7408	5567	5280	448560	8,668	0
10	89.00	7331	5452	5352	450380	8,446	0
11	89.00	7365	5452	5731	444740	8,353	0
12	89.00	7492	5249	5501	439440	8,352	0
13	89.00	7548	5527	5318	445240	9,702	0
14	89.00	7636	5559	4945	437480	8,297	0
15	88.00	7447	5421	5254	439900	8,563	0
16	89.00	7365	5580	5140	433800	8,187	0
17	90.00	7427	5610	5307	441600	8,298	0
18	90.00	7334	5425	5111	442140	8,289	0
19	88.00	7225	5403	4746	443260	8,212	0
20	89.00	7287	5494	5390	441260	8,309	0
21	90.00	7345	5321	5104	443400	8,244	0
22	90.00	7332	5536	5018	440960	8,316	0
23	88.00	7113	5391	4803	442520	8,172	0
24	88.00	7191	5576	5183	439600	8,244	0
25	89.00	7201	5422	5154	436020	8,109	0
26	90.00	7163	5508	5345	446100	8,294	0
27	88.00	7224	5537	4671	400320	7,780	0
28	88.00	7143	5489	4456	434540	8,100	0
29	89.00	7182	5559	4924	444000	8,269	0
30	89.00	7259	5580	5247	444480	8,279	0
31	89.00	7249	5684	5456	434500	8,090	0
32	89.00	7125	5387	5223	437840	8,159	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	7167	5595	4810	437520	8,209	0
34	89.00	7081	5400	4411	440800	8,199	0
35	89.00	6993	5412	5041	444700	8,207	0
36	89.00	7025	5885	5294	433340	8,060	0
37	89.00	7184	5605	5048	436660	8,059	0
38	90.00	6880	5303	4832	440720	8,138	0
39	89.00	6945	5434	4918	445040	8,194	0
40	90.00	7051	5541	4709	447620	8,205	0
41	90.00	6972	5479	4564	441880	8,225	0
42	89.00	6863	5584	4751	395240	7,633	0
43	89.00	6883	5428	4509	405260	7,708	0
44	90.00	6925	5492	4271	395420	7,617	0
45	89.00	6925	5497	4407	441660	8,116	0
46	89.00	6909	5137	4958	445920	8,083	0
47	90.00	6653	5339	4846	443660	8,122	0
48	90.00	6558	5372	4807	436800	7,968	0
49	88.00	6760	5925	4958	441420	8,129	0
50	88.00	6542	5857	4866	444102	8,078	0
51	89.00	6510	5688	4943	443320	8,144	0
52	88.00	6613	6161	5304	443000	8,216	0



HILLROCK 10HM

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	1927	2021	1935	2033	Sandstone
Big Lime	2021	2063	2033	2078	Limestone
Big Injun	2063	2380	2078	2441	Sandstone
Weir	2380	2595	2441	2698	Sandstone
Berea	2595	2837	2698	2979	Sandstone
Gordon	2837	2903	2979	3056	Sandstone
Fifty Foot	2903	3503	3056	3760	Sandstone
Speechley	3503	4917	3760	5429	Sandstone
Benson	4917	5293	5429	5870	Sandstone
Alexander	5293	5897	5870	6571	Siltstone
Rhinestreet	5897	6328	6571	7105	Black Shale
Middlesex	6328	6402	7105	7215	Black Shale
Geneseo/Burkett	6402	6428	7215	7255	Black Shale
Tully	6428	6465	7255	7323	Limestone
Hamilton	6465	6525	7323	7462	Gray Shale
Marcellus	6525	-	7462	-	Black Shale

# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/7/2021
Job End Date:	5/21/2021
State:	West Virginia
County:	Marshall
API Number:	47-051-02064-00-00
Operator Name:	Tug Hill Operating, LLC
Well Name and Number:	Hillrock S 10HM
Latitude:	39.74606767
Longitude:	-80.77026555
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,582
Total Base Water Volume (gal):	18,046,938
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	86.51621	None
Sand (40/70 White Proppant)	ProFrac	Proppant					
			Silica Substrate	14808-60-7	100.00000	8.97759	None
Sand (100 Mesh Proppant)	ProFrac	Proppant					
			Silica Substrate	14808-60-7	100.00000	2.96933	None
Sand (30/50 White Proppant)	ProFrac	Proppant					
			Silica Substrate	14808-60-7	100.00000	1.14501	None
Hydrochloric Acid (7.5%)	PVS	Acidizing					
			Water	7732-18-5	85.00000	0.23309	None
			Hydrochloric Acid (Hydrogen Chloride)	7647-01-0	37.00000	0.10146	None
StimStream FR 9800	Chemstream	Friction Reducer					
			Alkanes, C16-20-iso-	90622-59-6	25.00000	0.01773	None
			Butene, homopolymer	9003-29-6	25.00000	0.01773	None
			Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00213	None

MC MX 9-4743	Multi-Chem	Biocide					
			Sodium Nitrate	7631-99-4	60.00000	0.02195	None
LD-7750W	Multi-Chem	Scale Inhibitor					
			Methanol	67-56-1	60.00000	0.00498	None
			Phosphonic Acid Salt	Proprietary	5.00000	0.00042	None
ProFE 105	ProFrac	Iron Control					
			Citric Acid	77-92-9	100.00000	0.00100	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	0.23309	
			Butene, homopolymer	9003-29-6	25.00000	0.01773	
			Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00213	
			Phosphonic Acid Salt	Proprietary	5.00000	0.00042	

\* 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 LEASE WELL 10HM 661.127± ACRES

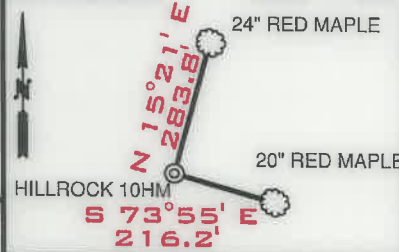
TOP HOLE LATITUDE: 39°45'00"  
BOTTOM HOLE LATITUDE: 39°45'00"

DETAIL SKETCH "A"  
SCALE 1"=100'

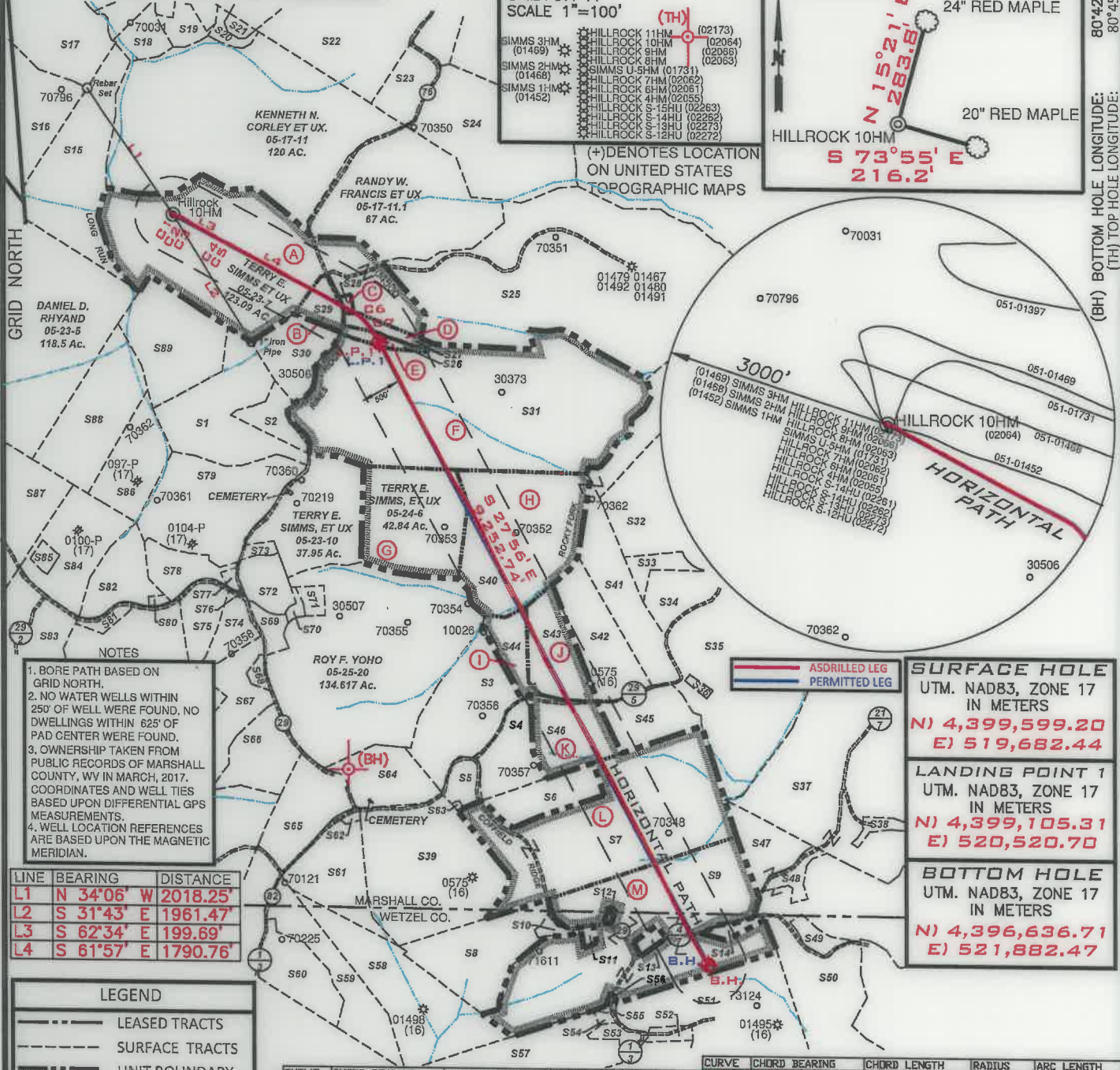
REFERENCES

SCALE 1"=400'

- SIMMS 3HM (01469)
- SIMMS 2HM (01468)
- SIMMS 1HM (01452)
- HILLROCK 11HM (02173)
- HILLROCK 10HM (02064)
- HILLROCK 9HM (02066)
- HILLROCK 8HM (02063)
- SIMMS U-5HM (01731)
- HILLROCK 7HM (02062)
- HILLROCK 6HM (02061)
- HILLROCK 4HM (02055)
- HILLROCK S-15HU (02263)
- HILLROCK S-14HU (02262)
- HILLROCK S-13HU (02253)
- HILLROCK S-12HU (02272)



(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS



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

LINE	BEARING	DISTANCE
L1	N 34°06' W	2018.25'
L2	S 31°43' E	1961.47'
L3	S 62°34' E	199.69'
L4	S 61°57' E	1790.76'

LEGEND

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

CURVE	CHORD BEARING	CHORD LENGTH	RADIUS	ARC LENGTH	CURVE	CHORD BEARING	CHORD LENGTH	RADIUS	ARC LENGTH
C1	S 68°26'21" E	68.91'	249.03'	69.13'	C4	S 58°34'31" E	148.30'	1376.66'	148.37'
C2	S 66°03'19" E	123.35'	234.91'	124.82'	C5	S 65°09'46" E	100.47'	601.74'	100.59'
C3	S 58°59'29" E	151.07'	915.50'	151.24'	C6	S 53°46'39" E	335.48'	670.44'	339.08'
					C7	S 33°36'49" E	311.70'	2210.82'	311.96'

**SURFACE HOLE**  
UTM. NAD83, ZONE 17  
IN METERS  
N) 4,399,599.20  
E) 519,682.44

**LANDING POINT 1**  
UTM. NAD83, ZONE 17  
IN METERS  
N) 4,399,105.31  
E) 520,520.70

**BOTTOM HOLE**  
UTM. NAD83, ZONE 17  
IN METERS  
N) 4,396,636.71  
E) 521,882.47

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

DRAWING NUMBER HILLROCK\_WP\_10HM

SCALE 1" = 2000'

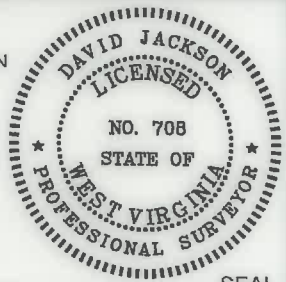
MINIMUM DEGREE OF ACCURACY 1/200

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

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

LOCATION ELEVATION 1219.5' WATERSHED (HUC 10) FISH CREEK

DISTRICT FRANKLIN COUNTY MARSHALL

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

DATE: APRIL 14, 2021

OPERATORS WELL NO. HILLROCK 10HM

API WELL NO. 47-051-02064

STATE COUNTY PERMIT

SURFACE OWNER TERRY E. & DEBORAH SIMMS ACREAGE 10.01/2021

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

TARGET FORMATION MARCELLUS ESTIMATED DEPTH TVD: 6,623' TMD: 16,871'

WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER  
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5400 D BIG TYLER ROAD  
FORT WORTH, TX 76107 CHARLESTON, WV 25313

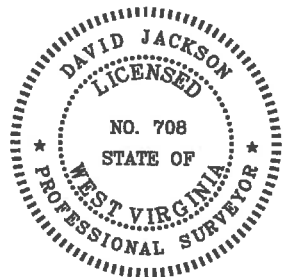
COUNTY NAME PERMIT



**HILLROCK LEASE  
WELL 10HM  
661.127± ACRES**

Number	TAX MAP-PARCEL	ADJOINER OWNER	ACRES
S1	05-24-5.4	Thomas V. Tuttle, et ux	38.224
S2	05-24-5.3	Thomas V. Tuttle, et ux	8.543
S3	05-25-01	Michael L. Mason	35.43
S4	05-25-13	Nicolas J. & Debra L. Klug	16.014
S5	05-25-13.2	David A. Klug	5.89
S6	05-25-12.1	Kent & Betty Mason	15.0
S7	05-25-12	Marion Parsons Jr., et al	85.16
S8	05-25-11.4	Edward W. Klug, et ux	32.787
S9	05-25-11.2	James W. Klug	114.305
S10	05-25-11.1	Edward W. Klug et ux	2.343
S11	12-03-44	James A. & Jo C. Estep	1.10
S12	12-03-47	Wetzel County Emergency Ambulance	0.50
S13	12-03-43	Adam W. Ferrell & Brittany M. Loy	1.97
S14	12-03-42	J. M. Klug	2.617
S15	05-23-06	James A. Channing, et al	48.0
S16	05-18-21	Curtis E. & Michelle J. Hall	43.119
S17	05-18-20	Wayne E. Channing, et al	75.6
S18	05-18-31	Kenneth E. Rastall	6.94
S19	05-18-32	Kenneth E. Rastall	5.335
S20	05-17-12	James A. & Jill C. Corley	3.33
S21	05-17-12.1	Williams Ohio Valley Midstream, LLC	1.67
S22	05-17-10	James A. Corley, et al	92.61
S23	05-17-9.3	James A. Corley, et ux	12.478
S24	05-17-9.4	Vicki L. Bowen	60.3
S25	05-24-1	Linda L. Hendrickson	175.0
S26	05-24-5.2	James D. Watkins, et ux	3.151
S27	05-24-5.1	James D. Watkins, et ux	4.6
S28	05-23-7.1	H.J. Weigand, et ux	0.549
S29	05-23-7.2	H.J. Weigand, et ux	6.354
S30	05-24-5.5	H.J. Weigand, et ux	17.194
S31	05-24-5	Robert C. Francis et ux (Life)	145.788
S32	05-24-3.2	T.H. Exploration II, LLC	49.0
S33	05-24-3.1	T.H. Exploration II, LLC	5.50
S34	05-25-2.2	John G. Klug, Sr. et ux	10.0
S35	05-25-2	James W. Klug	122.3
S36	05-25-2.1	Nancy Jackson	1.0
S37	05-25-3	S.D. Fertitta, et ux	181.548
S38	05-25-3.1	S.D. Fertitta, et ux	3.022
S39	05-25-14.1	Bernard R. Weigand, et ux	65.0
S40	05-24-04	Terry E. Simms, et ux	84.05
S41	05-25-1.4	Samantha J. & Philip A. Namlik	100.7235
S42	05-25-1.3	Michael E. & Annie A. Chapman	26.2
S43	05-25-1.2	William Jr. & Andrea J. Dubiel	20.1
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

Number	TAX MAP-PARCEL	ADJOINER OWNER	ACRES
S46	05-25-1.5	Ryan J. Bratton	21.35
S47	05-25-10	Terry L. & Tammy J. Kirkland	18.75
S48	05-25-10.1	Terry L. & Tammy J. Kirkland (Life)	5.250
S49	12-03-41	Carl L. Kirkland	4.102
S50	12-03-41.1	Terry L. & Tammy J. Kirkland	74.138
S51	12-03-4	Albert L. & Mary Hohman et al	85.0
S52	12-03-02	Robert Lee & Diana G. Smith	2.48
S53	12-03-4.3	Joseph P. & Barbara A. Cain	3.619
S54	12-03-4.6	Steven P. Wayman	1.009
S55	12-03-4.5	Hazel M. Blair	0.451
S56	12-03-01	James W. Klug	0.375
S57	12-03-4.7	Joseph P. & Barbara A. Cain	67.3
S58	12-02-14	David L. Cunningham	56.23
S59	12-02-14.2	Donald Lee Anderson, et al	4.2
S60	12-02-14.1	Richard Joseph Otte, et ux	1.25
S61	15-25-16.1	David L. Cunningham	6.34
S62	05-25-16.2	Rodney J. Loy	1.087
S63	05-25-13.1	Morgan Chad Gump, et ux	0.9
S64	05-25-14	Roy F. Yoho	23.0
S65	05-25-16	Emily Jones Irrevocable Trust	23.5
S66	05-25-17	Emily Jones Irrevocable Trust	22.79
S67	05-25-18	Joseph Johnson, et ux (Life)	37.746
S68	05-25-19	Joseph Johnson, et ux (Life)	1.973
S69	05-25-20.3	James A. & Jo C. Estep	4.49
S70	05-25-20.2	James M. Zombotti	1.347
S71	05-25-20.1	James M. Zombotti	2.746
S72	05-23-11	Roy F. Yoho	3.445
S73	05-23-11.7	Bryan L. Huggins	1.835
S74	05-23-11.5	Roy F. Yoho	9.25
S75	05-23-11.3	Colin R. Yoho	11.29
S76	05-23-11.6	T.H. Exploration II, LLC & Atinum Marcellus I, LLC	0.094
S77	05-23-11.2	Evelyn Hudson	1.154
S78	05-23-11.4	Evelyn Hudson	10.879
S79	05-23-11.1	John H. & Sonya D. Holliday	46.482
S80	05-23-13.1	James R. & Pamela J. Ferrell	0.7625
S81	05-23-12	Mark A. Yoho	3.05
S82	05-23-13	Linda D. Greathouse	14.24
S83	05-23-9.1	John W. Van Orden et ux	23.376
S84	05-23-9.2	Linda D. Greathouse	25.58
S85	05-23-9.4	Jackson R. Sr. & Deanna L. Davis	2.087
S86	05-23-9.3	Linda D. Greathouse	17.5
S87	05-23-14	Dominion Transmission, Inc.	59.5
S88	05-23-08	Carl David & Suzanne L. Guseman	29.5
S89	05-23-8.1	William & Virginia Roupe	34.0



P.S. 708

*David L Jackson*

<b>SURFACE HOLE</b> UTM. NAD83, ZONE 17 IN METERS N) 4,399,599.06 E) 519,682.52
<b>LANDING POINT 1</b> UTM. NAD83, ZONE 17 IN METERS N) 4,399,105.83 E) 520,522.12
<b>BOTTOM HOLE</b> UTM. NAD83, ZONE 17 IN METERS N) 4,396,634.29 E) 521,882.89

10/01/2021

	OPERATOR'S WELL #:	HILLROCK 10HM	<b>WELL PLAT</b> PAGE 2 OF 2 DATE: 04/14/2021
	DISTRICT:	Franklin	
	COUNTY:	Marshall	
	STATE:	WV	
	API #:	47-051-02064	