

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 47-051-02173 County Marshall District Franklin
Quad New Martinsville 7.5' Pad Name Simms Field/Pool Name _____
Farm name Terry E. & Deborah Simms Well Number Hillrock 11HM
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 4,399,602.88 Easting 519,682.36
Landing Point of Curve Northing 4,398,978.49 Easting 520,868.41
Bottom Hole Northing 4,396,711.24 Easting 522,124.42

Elevation (ft) 1,219.4' 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 5/3/2019 Date drilling commenced Conduc. 8/23/19; Top Hole 12/9/19 Date drilling ceased 12/27/2019
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 Dillies
10/01/2021

API 47-051 - 02173

Farm name Terry E. & Deborah Simms

Well number Hillrock 11HM

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"	929'	NEW	54.5#	N/A	Y
Coal	17 1/2"	13 3/8"	929'	NEW	54.5#	N/A	Y
Intermediate 1	12 1/4"	9 5/8"	2,835'	NEW	36#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8 3/4"	5 1/2"	16,895'	NEW	20#	N/A	Y
Tubing		2 3/8"	8,448'	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 ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	A	599	15.6	1.18	707	0	8
Surface	A	979	15.6	1.18	1172	0	8
Coal	A	979	15.6	1.18	1172	0	8
Intermediate 1	A	992	15.6	1.18	1176	0	8
Intermediate 2							
Intermediate 3							
Production	A	3988	14.5	1.17	4684	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 _____

10/01/2021

API 47- 051 - 02173 Farm name Terry E. & Deborah Simms Well number Hillrock 11HM

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					

Please insert additional pages as applicable.

API 47- 051 - 02173 Farm name Terry E. & Deborah Simms Well number Hillrock 11HM

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>MARCELLUS</u>	<u>6,553'-6,644'</u> TVD	<u>8,321'-16,924'</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 1300 psi Bottom Hole _____ psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 0 mcfpd Oil 0 bpd NGL 0 bpd Water 600 bpd GAS MEASURED BY Estimated Orifice Pilot

<u>LITHOLOGY/ FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H₂S, ETC)</u>
	<u>DEPTH IN FT NAME TVD</u>	<u>DEPTH IN FT TVD</u>	<u>DEPTH IN FT MD</u>	<u>DEPTH IN FT MD</u>	
	<u>0</u>		<u>0</u>		
<u>*attached</u>					

Please insert additional pages as applicable.

Drilling Contractor Precision
Address 10350 Richmond Avenue, Suite 700 City Houston State TX Zip 77042

Logging Company n/a
Address _____ City _____ State _____ Zip _____

Cementing Company BJ Cementing Services
Address 4000 Town Center Boulevard City Canonsburg State PA Zip 15317

Stimulating Company PRO-FRAC
Address 333 Shops Boulevard City Willow Park State TX Zip 76087

Please insert additional pages as applicable.

Completed by Amy L. Morris Telephone 304-376-01111
Signature *Amy L. Morris* Title Permitting Specialist - Appalachia Region Date _____

**HILLROCK 11HM
PEFORATION RECORD**

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD. Ft.	Number of Perforations	Formation(s)
1	5/7/2021	16,534	16,680	48	Marcellus
2	5/7/2021	16,359	16,506	48	Marcellus
3	5/8/2021	16,184	16,331	48	Marcellus
4	5/8/2021	16,009	16,156	48	Marcellus
5	5/8/2021	15,834	15,981	48	Marcellus
6	5/9/2021	15,659	15,806	48	Marcellus
7	5/9/2021	15,484	15,631	48	Marcellus
8	5/9/2021	15,309	15,456	48	Marcellus
9	5/9/2021	15,134	15,281	48	Marcellus
10	5/10/2021	14,959	15,106	48	Marcellus
11	5/10/2021	14,784	14,931	48	Marcellus
12	5/10/2021	14,609	14,756	48	Marcellus
13	5/11/2021	14,434	14,581	48	Marcellus
14	5/11/2021	14,259	14,406	48	Marcellus
15	5/11/2021	14,084	14,231	48	Marcellus
16	5/12/2021	13,909	14,056	48	Marcellus
17	5/12/2021	13,734	13,881	48	Marcellus
18	5/12/2021	13,559	13,706	48	Marcellus
19	5/12/2021	13,384	13,531	48	Marcellus
20	5/13/2021	13,209	13,356	48	Marcellus
21	5/13/2021	13,034	13,181	48	Marcellus
22	5/13/2021	12,859	13,006	48	Marcellus
23	5/14/2021	12,684	12,831	48	Marcellus
24	5/14/2021	12,509	12,656	48	Marcellus
25	5/14/2021	12,334	12,481	48	Marcellus
26	5/15/2021	12,159	12,306	48	Marcellus
27	5/15/2021	11,984	12,131	48	Marcellus
28	5/15/2021	11,809	11,956	48	Marcellus
29	5/16/2021	11,634	11,781	48	Marcellus
30	5/16/2021	11,459	11,606	48	Marcellus
31	5/16/2021	11,284	11,431	48	Marcellus
32	5/17/2021	11,109	11,256	48	Marcellus
33	5/17/2021	10,934	11,081	48	Marcellus
34	5/17/2021	10,759	10,906	48	Marcellus
35	5/18/2021	10,584	10,731	48	Marcellus
36	5/18/2021	10,409	10,556	48	Marcellus
37	5/18/2021	10,234	10,381	48	Marcellus
38	5/18/2021	10,059	10,206	48	Marcellus
39	5/19/2021	9,884	10,031	48	Marcellus
40	5/19/2021	9,709	9,856	48	Marcellus
41	5/19/2021	9,534	9,681	48	Marcellus

10/01/2021

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD. Ft.	Number of Perforations	Formation(s)
42	5/19/2021	9,359	9,506	48	Marcellus
43	5/20/2021	9,184	9,331	48	Marcellus
44	5/20/2021	9,009	9,156	48	Marcellus
45	5/20/2021	8,834	8,981	48	Marcellus
46	5/21/2021	8,659	8,806	48	Marcellus
47	5/21/2021	8,484	8,631	48	Marcellus
48	5/21/2021	8,309	8,456	48	Marcellus

HILLROCK 11HM
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	82.96	7801	5000	4606	526200	9830	0
2	88.03	7641	5637	5299	525940	9906	0
3	89.32	7547	5686	5278	525980	9633	0
4	89.40	7541	5085	5578	533560	9748	0
5	88.84	7455	5824	5320	536400	9872	0
6	89.35	7493	5718	5561	516260	9642	0
7	88.83	7410	5836	5268	522400	9604	0
8	90.00	7555	5827	5418	542640	9966	0
9	88.73	7468	5498	4992	526370	9767	0
10	90.04	7457	5624	5555	531700	9604	0
11	89.58	7522	5624	5999	523860	9457	0
12	88.30	7378	5739	5470	538320	10751	0
13	89.46	7436	5517	5305	535100	9788	0
14	89.06	7490	5735	5521	525420	9626	0
15	88.43	7439	5503	5111	544460	9969	0
16	88.80	7399	5494	5327	532100	9648	0
17	90.33	7503	5601	4800	529840	9549	0
18	89.69	7324	5611	4591	522820	9482	0
19	88.53	7263	5735	5053	522220	9474	0
20	89.80	7435	5436	4907	528260	9926	0
21	89.60	7256	5495	5315	533240	9587	0
22	88.17	7203	5437	5067	523920	9761	0
23	89.68	7192	5504	5371	527540	9536	0
24	88.90	7093	5436	5132	521360	9457	0
25	87.85	7308	5695	4788	526160	9588	0
26	89.67	7312	5532	5342	530680	9529	0
27	89.32	7177	5351	5085	522540	9415	0
28	88.78	7245	5491	4937	527880	9569	0
29	89.41	7275	5365	5037	528300	9521	0
30	89.21	7261	5576	4947	525920	9470	0
31	88.77	7149	5575	5723	525000	9474	0
32	88.76	7102	5505	5011	527440	9568	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	89.28	7374	5507	4800	479780	11237	0
34	88.55	6986	5382	5205	531000	9481	0
35	89.56	6973	5682	5202	528200	9489	0
36	90.27	6976	5554	5353	526740	9473	0
37	90.27	6973	5850	5240	525780	9463	0
38	89.09	6871	5461	4899	530360	9504	0
39	90.47	6928	5305	5453	517900	9299	0
40	89.53	6979	5425	5401	531002	9457	0
41	89.08	6994	5621	4942	526040	9586	0
42	87.25	7019	5820	4891	526400	9939	0
43	89.61	6964	5586	5122	523620	9339	0
44	89.78	6779	5434	4743	529260	9303	0
45	89.95	6841	5632	4107	527660	9409	0
46	89.63	6789	4947	4547	528800	9322	0
47	89.01	6807	6012	5042	521500	9418	0
48	89.83	6809	5606	5247	512520	9423	0

HILLROCK 11HM

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	1940	2034	1950	2050	Sandstone
Big Lime	2034	2076	2050	2095	Limestone
Big Injun	2076	2393	2095	2467	Sandstone
Weir	2393	2608	2467	2741	Sandstone
Berea	2608	2850	2741	3071	Sandstone
Gordon	2850	2916	3071	3161	Sandstone
Fifty Foot	2916	3516	3161	3967	Sandstone
Speechley	3516	4930	3967	5866	Sandstone
Benson	4930	5306	5866	6383	Sandstone
Alexander	5306	5910	6383	7189	Siltstone
Rhinestreet	5910	6348	7189	7805	Black Shale
Middlesex	6348	6403	7805	7895	Black Shale
Geneseo/Burkett	6403	6429	7895	7940	Black Shale
Tully	6429	6466	7940	8011	Limestone
Hamilton	6466	6526	8011	8183	Gray Shale
Marcellus	6526	-	8183	-	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:	47-051-02173-00-00
Operator Name:	Tug Hill Operating, LLC
Well Name and Number:	Hillrock S 11HM
Latitude:	39.74610061
Longitude:	-80.77026615
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,588
Total Base Water Volume (gal):	19,440,078
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	86.21463	None
Sand (40/70 White Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	9.21236	None
Sand (100 Mesh Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	2.92834	None
Sand (30/50 White Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	1.29226	None
Hydrochloric Acid (7.5%)	PVS	Acidizing	Water	7732-18-5	85.00000	0.19998	None
			Hydrochloric Acid (Hydrogen Chloride)	7647-01-0	37.00000	0.08705	None
StimStream FR 9800	Chemstream	Friction Reducer	Butene, homopolymer	9003-29-6	25.00000	0.01768	None
			Alkanes, C16-20-iso-	90622-59-6	25.00000	0.01768	None
			Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00212	None

MC MX 9-4743	Multi-Chem	Biocide					
			Sodium Nitrate	7631-99-4	60.00000	0.02191	None
LD-7750W	Multi-Chem	Scale Inhibitor					
			Methanol	67-56-1	60.00000	0.00499	None
			Phosphonic Acid Salt	Proprietary	5.00000	0.00042	None
ProFE 105	ProFrac	Iron Control					
			Citric Acid	77-92-9	100.00000	0.00089	None
ProHib 100	ProFrac	Acid Inhibitor					
			2-Propyn-1-ol compound w/ methyloxirane	38172-91-7	15.00000	0.00011	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	0.19998	
			Butene, homopolymer	9003-29-6	25.00000	0.01768	
			Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00212	
			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)

(BH) 9,474'

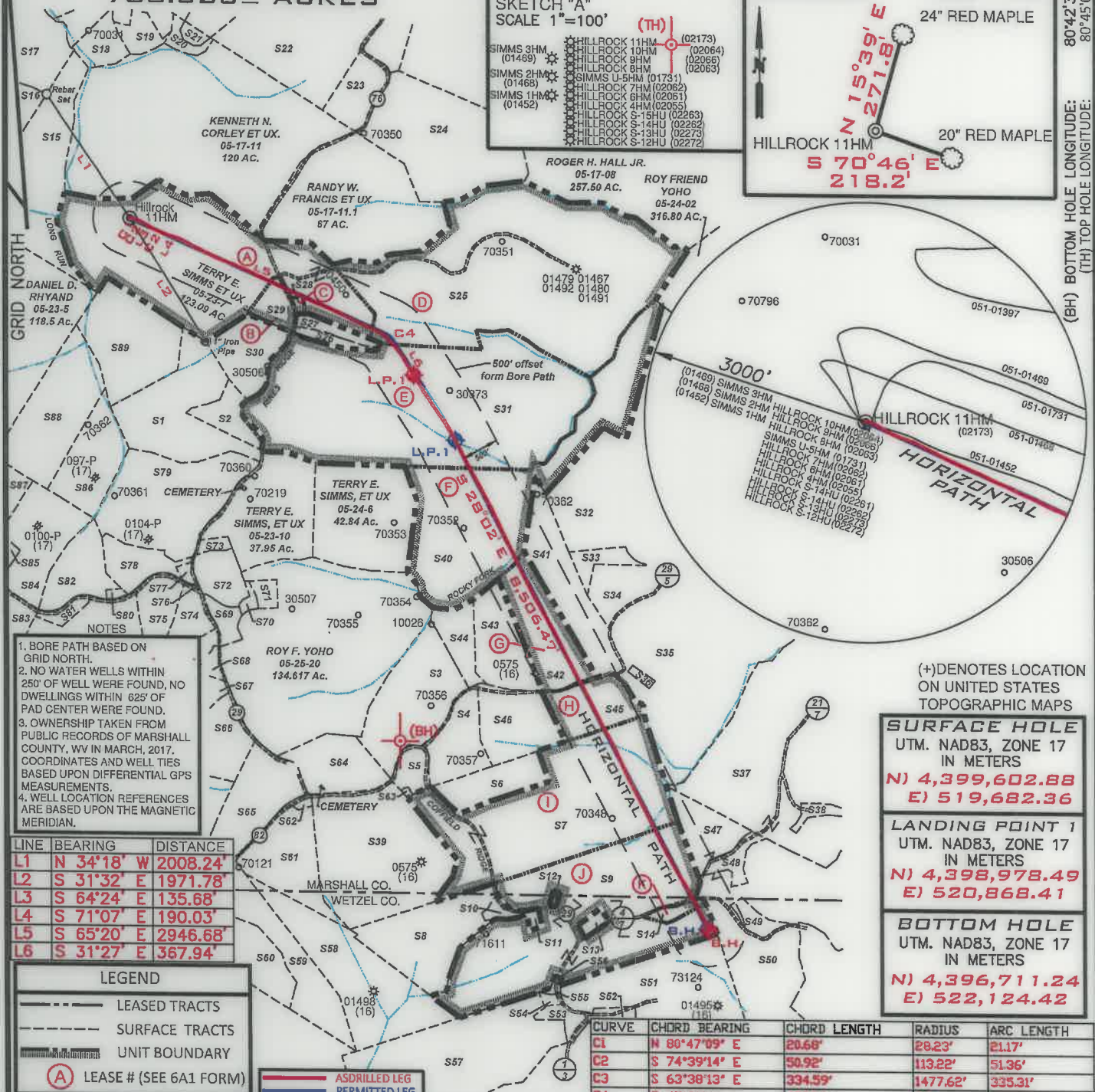
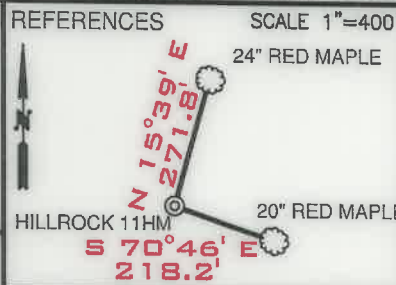
(TH) 5,755'

HILLROCK LEASE WELL 11HM 780.323± ACRES

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

DETAIL SKETCH "A" SCALE 1"=100'

SIMMS 3HM (01489)	HILLROCK 11HM (02173)
SIMMS 2HM (01468)	HILLROCK 10HM (02064)
SIMMS 1HM (01452)	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 (02273)
	HILLROCK S-12HU (02272)



- 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°18' W	2008.24'
L2	S 31°32' E	1971.78'
L3	S 64°24' E	135.68'
L4	S 71°07' E	190.03'
L5	S 65°20' E	2946.68'
L6	S 31°27' E	367.94'

LEGEND

- LEASED TRACTS
- SURFACE TRACTS
- UNIT BOUNDARY
- LEASE # (SEE 6A1 FORM)
- AS DRILLED LEG
- PERMITTED LEG

(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

SURFACE HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,399,602.88
E) 519,682.36
LANDING POINT 1
UTM. NAD83, ZONE 17
IN METERS
N) 4,398,978.49
E) 520,868.41
BOTTOM HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,396,711.24
E) 522,124.42

CURVE	CHORD BEARING	CHORD LENGTH	RADIUS	ARC LENGTH
C1	N 80°47'09" E	20.68'	28.23'	21.17'
C2	S 74°39'14" E	50.92'	113.22'	51.36'
C3	S 63°38'13" E	334.59'	1477.62'	335.31'
C4	S 47°21'03" E	430.27'	922.61'	434.27'

FILE NUMBER _____

DRAWING NUMBER HILLROCK_11HM_REV 0

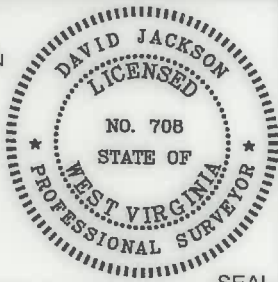
SCALE 1" = 2000'

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 14, 2021

OPERATORS WELL NO. HILLROCK 11HM

API WELL NO. 47-051-02173

STATE COUNTY PERMIT

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

LOCATION ELEVATION 1219.4' 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 1020.19 **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: 6,644' TMD: 16,924'

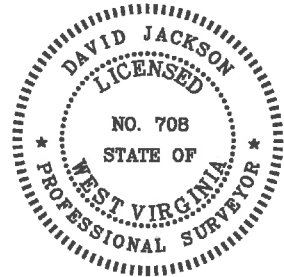
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107 ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

COUNTY NAME
PERMIT

**HILLROCK LEASE
WELL 11HM
780.323± 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 (I)	05-25-12	Marion Parsons Jr., et al	85.16
S8	05-25-11.4	Edward W. Klug, et ux	32.787
S9 (J)	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 (K)	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 (D)	05-24-1	Linda L. Hendrickson & Donald Ray Pickering	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 (C)	05-23-7.1	H.J. Weigand, et ux	0.549
S29 (B)	05-23-7.2	H.J. Weigand, et ux	6.354
S30	05-24-5.5	H.J. Weigand, et ux	17.194
S31 (E)	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 (F)	05-24-04	Terry E. Simms, et ux	84.05
S41	05-25-1.4	Samantha J. & Philip A. Namlik	100.7235
S42 (G)	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 (H)	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*

SURFACE HOLE UTM. NAD83, ZONE 17 IN METERS N) 4,399,602.72 E) 519,682.49
LANDING POINT 1 UTM. NAD83, ZONE 17 IN METERS N) 4,398,714.27 E) 521,044.82
BOTTOM HOLE UTM. NAD83, ZONE 17 IN METERS N) 4,396,716.85 E) 522,117.85

10/01/2021



TUG HILL
OPERATING

OPERATOR'S
WELL #: HILLROCK 11HM
DISTRICT: Franklin
COUNTY: Marshall
STATE: WV
API #: 47-051-02173

WELL PLAT
PAGE 2 OF 2
DATE: 04/14/2021