

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

API 47 - 051 - 02016 County Marshall District Meade
Quad Glen Easton 7.5' Pad Name Heaven Hill 3 Field/Pool Name _____
Farm name Ricky L. Whitlatch Well Number Heaven Hill 3N-10HU
Operator (as registered with the OOG) Tug Hill Operating, LLC
Address 1320 S. University Drive, Suite 215 City Ft. Worth State TX Zip 76107

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,406,566.12 Easting 526,248.66
Landing Point of Curve Northing 4,405,861.0 Easting 525,900.1
Bottom Hole Northing 4,407,592.0 Easting 524,925.3

Elevation (ft) 1326' 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 5/22/2018 Date drilling commenced 7/4/2018 Date drilling ceased 1/11/2019
Date completion activities began 4/12/2019 Date completion activities ceased 10/28/2019
Verbal plugging (Y/N) N Date permission granted N/A Granted by RECEIVED
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Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug
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Freshwater depth(s) ft 1064' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1595' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 972-978'; 1057-1063' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:
Jan Nuckols
7/27/2020

API 47-051 - 02016 Farm name Ricky L. Whitlatch Well number Heaven Hill 3N-10HU

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	26"	20"	1,122'	NEW	106.5#	N/A	Y
Coal							
Intermediate 1	17 1/2"	13 3/8"	2,901	NEW	54.5#	N/A	Y
Intermediate 2	12 1/4"	9 5/8"	11,195'	NEW	47#	N/A	Y
Intermediate 3							
Production	8 1/2"	5 1/2"	19,278'	NEW	23#	N/A	Y
Tubing		2 7/8"	9,639'	NEW	4.7#	N/A	
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		15.6	1.2		0	8
Surface	A	2100	15.6	1.2	2508	0	8
Coal							
Intermediate 1	A	2240	15.6	1.19	2799	0	8
Intermediate 2	A	4170	14.5	1.19	4962	0	8
Intermediate 3							
Production	A	4243	16.5	1.17	4751	0	8
Tubing							

Drillers TD (ft) 19,300'

Deepest formation penetrated TRENTON

Plug back procedure N/A

Loggers TD (ft) N/A

Plug back to (ft) N/A

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Kick off depth (ft) 11,200'

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Check all wireline logs run

- caliper
 neutron

- density
 resistivity

- deviated/directional
 gamma ray

- induction
 temperature

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 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 _____

API 47- 051 - 02016 Farm name Ricky L. Whitlatch Well number Heaven Hill 3N-10HU

PRODUCING FORMATION(S) DEPTHS

POINT PLEASANT 11701' - 11613' TVD 12773' - 19300' MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow Flow Pump

SHUT-IN PRESSURE Surface 8000 psi Bottom Hole psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 500 mcfpd 0 bpd Oil bpd NGL bpd Water 550 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP		BOTTOM		TOP		BOTTOM		DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT		
	NAME TVD	TVD	MD	MD	MD	MD	MD	MD	
attached	0		0						
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Please insert additional pages as applicable.

Drilling Contractor Nabors Drilling USA
Address 505 West Greens Road, Suite 1000

State Houston TX Zip 77060
WV Department of Environmental Protection

Logging Company n/a
Address City State Zip

Cementing Company C&J Well Services
Address 380 Southpointe Boulevard, Suite 210

State Canonsburg PA Zip 15317

Stimulating Company Halliburton Energy Services, Inc.
Address 121 Champion Way, Suite 200

State Canonsburg PA Zip 15317

Please insert additional pages as applicable.

Completed by Amy L. Miller Telephone 304-376-0111
Signature Amy L Miller Title Permitting Specialist Date 4-10-2020

**Heaven Hill 3N-10HU
PEFORATION RECORD**

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD. Ft.	Number of Perforations	Formation(s)
1	8/17/2019	18862	19011	48	Utica
2	8/17/2019	18664	18813	48	Utica
3	8/18/2019	18466	18615	48	Utica
4	8/18/2019	18268	18417	48	Utica
5	8/18/2019	18070	18219	48	Utica
6	8/19/2019	17872	18021	48	Utica
7	8/19/2019	17674	17823	48	Utica
8	8/20/2019	17476	17625	48	Utica
9	8/26/2019	17278	17427	48	Utica
10	8/26/2019	17080	17229	48	Utica
11	8/26/2019	16882	17031	48	Utica
12	8/26/2019	16684	16833	48	Utica
13	8/27/2019	16486	16635	48	Utica
14	8/27/2019	16288	16437	48	Utica
15	8/27/2019	16090	16239	48	Utica
16	8/27/2019	15892	16041	48	Utica
17	8/28/2019	15694	15843	48	Utica
18	8/28/2019	15496	15645	48	Utica
19	8/28/2019	15298	15447	48	Utica
20	8/29/2019	15100	15249	48	Utica
21	8/29/2019	14902	15051	48	Utica
22	8/29/2019	14704	14853	48	Utica
23	8/29/2019	14506	14655	48	Utica
24	8/30/2019	14308	14457	48	Utica
25	8/30/2019	14110	14259	48	Utica
26	8/30/2019	13912	14061	48	Utica
27	8/30/2019	13714	13863	48	Utica
28	8/31/2019	13516	13665	48	Utica
29	8/31/2019	13318	13467	48	Utica
30	8/31/2019	13120	13269	48	Utica
31	8/31/2019	12922	13071	48	Utica
32	8/31/2019	12724	12873	48	Utica

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**Heaven Hill 3N-10HU
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	88.8	11341	10013	7084	500300	445996	0
2	88.5	11355	9708	7121	500700	447101	0
3	87.6	11122	10756	7525	501720	437015	0
4	89.3	11204	10163	7622	502310	435684	0
5	87.9	11163	10790	7692	506530	430624	0
6	89.5	11234	10365	7651	508480	436411	0
7	89.4	11072	10258	7568	502080	434220	0
8	89.6	11188	9702	7556	502520	432362	0
9	89.4	11085	10137	7616	500130	429937	0
10	89.5	11031	9324	7698	502610	426236	0
11	89.5	11262	9805	7735	502360	424450	0
12	89.4	11015	10045	7664	503500	427894	0
13	89.1	10931	9583	7599	470850	409067	0
14	89.7	10905	9015	7749	506575	424471	0
15	89.9	11074	9369	7484	500020	421507	0
16	88.7	11176	9839	7538	420960	420111	0
17	89.5	10949	9551	7711	500950	439793	0
18	88.5	11029	9999	7977	440500	414925	0
19	89.4	11007	9062	7749	500490	412916	0
20	87.3	10995	9522	8064	502310	482095	0
21	89.2	11158	9038	7625	499450	436537	0
22	89.3	10988	9570	7707	503790	418415	0
23	88.7	11087	9073	7741	500320	420515	0
24	88.3	11103	9430	7698	501920	420019	0
25	89.2	10926	9999	8109	479310	401848	0
26	89.4	10869	9149	8315	501170	418660	0
27	88.9	10625	8752	8254	499900	418140	0
28	87.8	10812	8871	7785	502080	445693	0
29	89.5	10590	9061	7905	510510	434009	0
30	89.3	10654	8549	7556	500300	425382	0
31	88.7	10392	8537	8128	501400	438530	0
32	78.4	9999	8558	7470	500760	508274	0

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HEAVEN HILL 3N-10HU

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	2084	2221	2085	2222	Sandstone
Big Lime	2221	2306	2222	2307	Limestone
Big Injun	2306	2597	2307	2598	Sandstone
Weir	2597	2784	2598	2785	Sandstone
Berea	2784	3060	2785	3062	Sandstone
Gordon	3060	3163	3062	3165	Sandstone
Fifty Foot	3163	3713	3165	3715	Sandstone
Speechley	3713	5159	3715	5174	Sandstone
Benson	5159	5460	5174	5491	Sandstone
Alexander	5460	6110	5491	6203	Siltstone
Rhinestreet	6110	6644	6203	6805	Black shale
Middlesex	6644	6717	6805	6887	Black shale
Genesee/Burkett	6717	6746	6887	6919	Black shale
Tully	6746	6790	6919	6969	Limestone
Hamilton	6790	6865	6969	7052	Grey shale
Marcellus	6865	6915	7052	7108	Black shale
Onondaga	6915	7168	7108	7392	Limestone
Oriskany	7168	7257	7392	7490	Sandstone
Heiderberg	7257	7660	7490	7929	Limestone
Salina	7660	8650	7929	9021	Salt/Anhydrite/LS
Lockport	8650	9030	9021	9442	Dolomite
Rose Hill	9030	9302	9442	9743	Shale
Packer Shell	9302	9473	9743	9930	Limestone
Clinton/Tuscarora	9473	9645	9930	10115	Sandstone
Junjata/Queenston	9645	10503	10115	11050	Red Shale
Reedsville	10503	11420	11050	12104	Grey Shale
Utica	11420	11659	12104	12526	Black Shale
Point Pleasant	11659	-	12526	-	Shale/Limestone

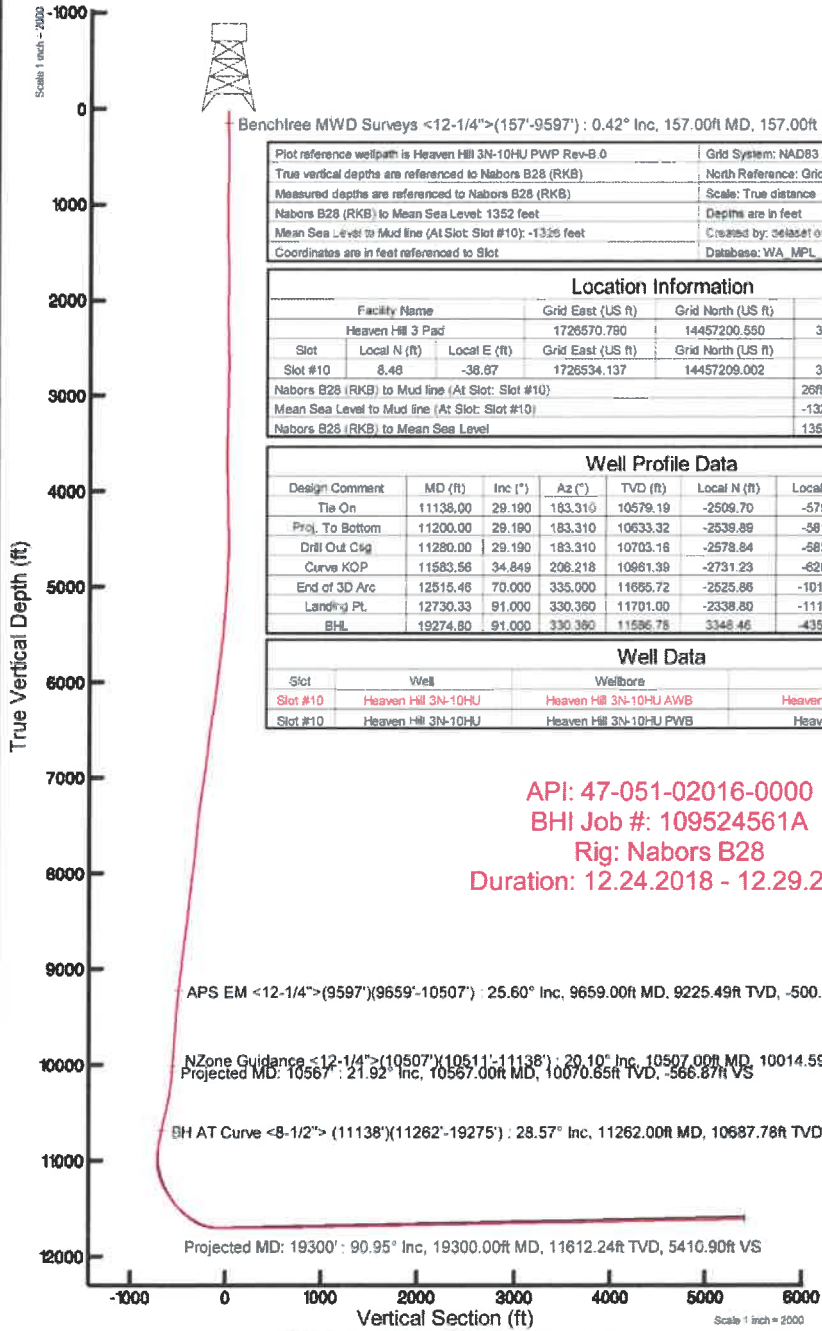
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TUG HILL OPERATING

Location: Marshall County, WV Slot: Slot #10
 Field: Marshall Well: Heaven Hill 3N-10HU
 Facility: Heaven Hill 3 Pad Wellbore: Heaven Hill 3N-10HU PWB



Benchtree MWD Surveys <12-1/4">(157°-9597') : 0.42° Inc, 157.00ft MD, 157.00ft TVD, 0.28ft VS

Plot reference wellpath is Heaven Hill 3N-10HU PWB Rev-B.0		Grid System: NAD83 / UTM Zone 17 North, US feet	
True vertical depths are referenced to Nabors B28 (RKB)		North Reference: Grid north	
Measured depths are referenced to Nabors B28 (RKB)		Scale: True distance	
Nabors B28 (RKB) to Mean Sea Level: 1352 feet		Depths are in feet	
Mean Sea Level to Mud line (At Slot: Slot #10): -1326 feet		Created by: celaset on 2018-12-31	
Coordinates are in feet referenced to Slot		Database: WA_MPL_EasternUS_Defn	

Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Heaven Hill 3 Pad	1726570.780	14457200.550	39°48'31.106"N	80°41'36.583"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Longitude
Slot #10	8.48	-38.87	1726534.137	14457209.002	39°48'31.190"N 80°41'36.053"W
Nabors B28 (RKB) to Mud line (At Slot: Slot #10)			26ft		
Mean Sea Level to Mud line (At Slot: Slot #10)			-1326ft		
Nabors B28 (RKB) to Mean Sea Level			1352ft		

Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	11138.00	29.190	183.310	10579.19	-2509.70	-579.65	1.88	-653.83
Proj. To Bottom	11200.00	29.190	183.310	10633.32	-2539.89	-581.39	0.00	-666.32
Drill Out Csg	11280.00	29.190	183.310	10703.16	-2578.84	-583.65	0.00	-682.44
Curve KOP	11583.56	34.849	206.218	10861.39	-2731.23	-628.43	4.38	-715.43
End of 3D Arc	12515.46	70.000	335.000	11655.72	-2525.86	-1019.93	10.00	-271.56
Landing Pt.	12730.33	91.000	330.360	11701.00	-2338.80	-1116.86	10.00	-98.77
BHL	19274.80	91.000	330.360	11586.75	3346.46	-4352.91	0.00	5410.71

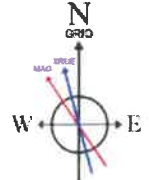
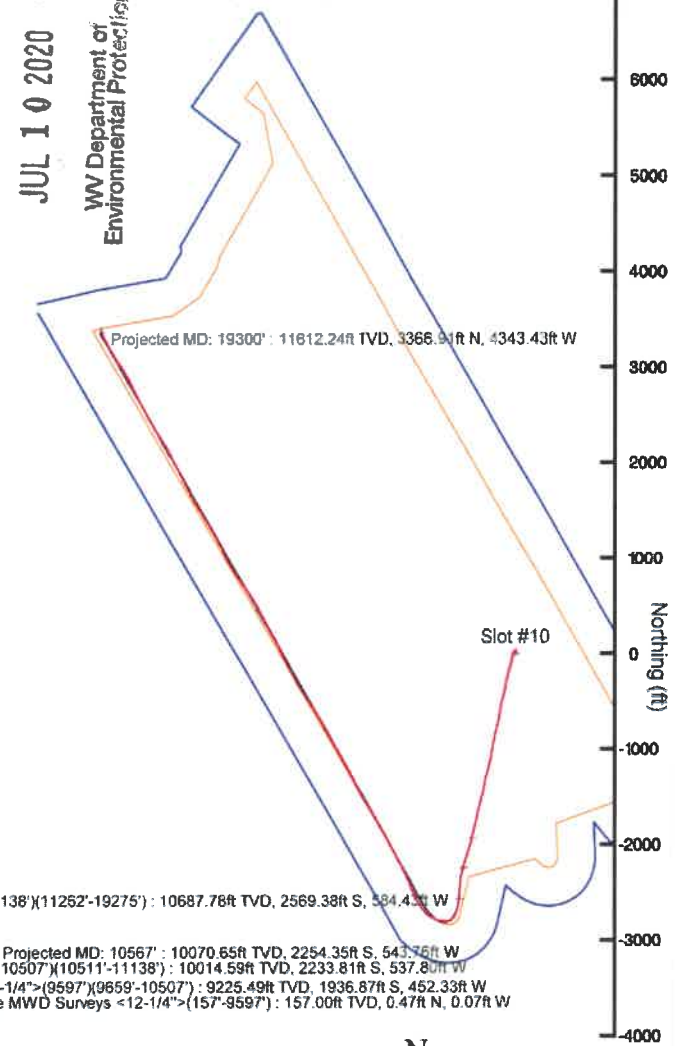
Well Data			
Slot	Well	Wellbore	Wellpath
Slot #10	Heaven Hill 3N-10HU	Heaven Hill 3N-10HU AWB	Heaven Hill 3N-10HU AWP Proj: 19300'
Slot #10	Heaven Hill 3N-10HU	Heaven Hill 3N-10HU PWB	Heaven Hill 3N-10HU PWB Rev-B.0

API: 47-051-02016-0000
 BHI Job #: 109524561A
 Rig: Nabors B28
 Duration: 12.24.2018 - 12.29.2018

APS EM <12-1/4">(9597°)(9659'-10507') : 25.60° Inc, 9659.00ft MD, 9225.49ft TVD, -500.19ft VS
 NZone Guidance <12-1/4">(10507°)(10511'-11138') : 20.10° Inc, 10507.00ft MD, 10014.59ft TVD, -562.59ft VS
 Projected MD: 10567' : 21.92° Inc, 10567.00ft MD, 10070.65ft TVD, -566.87ft VS
 BH AT Curve <8-1/2">(11138°)(11262'-19275') : 28.57° Inc, 11262.00ft MD, 10687.78ft TVD, -677.35ft VS

Scale 1 inch = 2000
 Easting (ft)
 -5000 -4000 -3000 -2000 -1000 0 1000 7000

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BGGM (1900.0 to 2020.0) Dip: 66.80° Field: 52082.1 nT
 Magnetic North is 8.69 degrees West of True North (at 11/29/2018)
 Grid North is 0.20 degrees East of True North
 To correct azimuth from True to Grid subtract 0.20 degrees
 To correct azimuth from Magnetic to Grid subtract 8.89 degrees

Hydraulic Fracturing Fluid Product Component Information Disclosure

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Job Start Date:	8/17/2019
Job End Date:	8/31/2019
State:	West Virginia
County:	Marshall
API Number:	47-051-02016-00-00
Operator Name:	Tug Hill Operating, LLC
Well Name and Number:	Heaven Hill 3 10HU
Latitude:	39.80866403
Longitude:	-80.69334797
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	11,702
Total Base Water Volume (gal):	13,999,736
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
Fresh Water	Halliburton	Base Fluid					
			Water	7732-18-5	100.00000	87.46304	Density = 8.34
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.50997	

MC MX 8-4743	MultiChem	Additive					
				Listed Below			
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
				Listed Below			
LD-2950	MultiChem	Friction Reducer					
				Listed Below			
OilPerm A	Halliburton	Non-ionic Surfactant					
				Listed Below			
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
				Listed Below			
Sand-Premium White-40/70	Halliburton	Proppant					
				Listed Below			
LEGEND(TM) LD-7750W	MultiChem	Scale Control					
				Listed Below			
FDP-S1296-17	Halliburton	Acid Corrosion Inhibitor					
				Listed Below			

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Items above are Trade Names with the exception of Base Water . Items below are the individual ingredients.

			Crystalline silica, quartz	14808-60-7	100.00000	11.89328	
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			Hydrochloric acid	7647-01-0	7.50000	0.03765	
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.02876	
			Sodium nitrate	7631-99-4	60.00000	0.02247	
			Methanol	67-56-1	100.00000	0.00543	
			Poly(oxy-1,2-ethanediyl), alpha-tridecyl-omega-hydroxy-, branched	69011-36-5	1.00000	0.00096	
			Ethoxylated alcohols	Proprietary	1.00000	0.00096	
			Phosphoric Acid Salt	Proprietary	5.00000	0.00044	
			Sodium chloride	7647-14-5	5.00000	0.00044	
			Ethanol	64-17-5	60.00000	0.00012	
			Oxyalkylated nonyl phenolic resin	Proprietary	30.00000	0.00006	
			Heavy aromatic petroleum naphtha	64742-94-5	30.00000	0.00006	
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00006	
			Modified thiourea polymer	Proprietary	30.00000	0.00006	
			Oxyalkylated phenolic resin	Proprietary	10.00000	0.00002	
			Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	5.00000	0.00001	
			Naphthalene	91-20-3	5.00000	0.00001	
			Hexadecene	629-73-2	5.00000	0.00001	
			Propargyl alcohol	107-19-7	5.00000	0.00001	
			Ethoxylated alcohols	Proprietary	5.00000	0.00001	
			Formaldehyde	50-00-0	0.10000	0.00001	
			1,2,4 Trimethylbenzene	95-63-6	1.00000	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(l) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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**HEAVEN HILL 3N LEASE
UTICA UNIT - 678.39 AC ±
WELL 10HU
TUG HILL OPERATING**

TAG	SURFACE OWNER	PARCEL	ACRES
A	RICKY L. WHITLATCH	9-7-30	72.82
B	RICKY L. WHITLATCH	9-7-21	42.22
C	LAWRENCE & SHIRLEY CONKLE ESTS.	9-7-22	12.00
D	LAWRENCE & SHIRLEY CONKLE ESTS.	9-7-24	139.79
E	LARRY J. WHETZEL, ET UX	9-7-23	36.00
F	BRENDA J. WHETZEL	9-11-7	82.858
G	WILLIAM F. & JULIA A. KERNS	9-11-6.2	46.47
H	BRENDA J. WHETZEL	9-11-6.1	30.24
I	KEVIN E. MCGILTON	9-7-19	23.00
J	KEVIN E. MCGILTON	9-7-20	13.39
K	KEVIN E. MCGILTON	9-7-18	14.00
L	CONSOL MINING COMPANY LLC	9-7-2	116.12
M	RICKY L. WHITLATCH	NOT ASSD.	16 X 32P
N	KEVIN E. MCGILTON	9-7-17	5.12
O	RICKY L. WHITLATCH	NOT ASSD.	2.75
P	MICHAEL PINE, ET UX	9-7-1	107.46
Q	KEVIN E. MCGILTON	9-7-16	8.00
R	RICKY L. WHITLATCH	9-7-31	16.53
S	RICKY L. WHITLATCH	9-7-15	7.54
T	ARNIE GOODNIGHT, ET UX	9-7-14	39.55
U	HELEN ROBERTSON PAYNE	9-7-4	78.95
V	CHARLES R. JR. & ANNA MARIE HAGEDORN	9-7-3	203.074
W	CHARLES R. JR. & ANNA MARIE HAGEDORN	9-7-3.1	4.579
X	ARNIE GOODNIGHT, ET UX	9-7-5	62.18
Y	TERRI L. & HARIKILIA SAMPSON	9-5-1	111.71
Z	HELEN ROBERTSON PAYNE	9-5-3	85.26
AA	CONSOLIDATION COAL COMPANY	9-5-4.1	22.775
BB	ELMER L. ASTON	9-5-4	108.225

TAG	SURFACE OWNER	PARCEL	ACRES
A	RICKY L. WHITLATCH	9-7-30	72.82
B	RICKY L. WHITLATCH	9-7-21	42.22
C	LAWRENCE & SHIRLEY CONKLE ESTS.	9-7-22	12.00
D	LAWRENCE & SHIRLEY CONKLE ESTS.	9-7-24	139.79
E	LARRY J. WHETZEL, ET UX	9-7-23	36.00
F	BRENDA J. WHETZEL	9-11-7	82.858
G	WILLIAM F. & JULIA A. KERNS	9-11-6.2	46.47
H	BRENDA J. WHETZEL	9-11-6.1	30.24
I	KEVIN E. MCGILTON	9-7-19	23.00
J	KEVIN E. MCGILTON	9-7-20	13.39
K	KEVIN E. MCGILTON	9-7-18	14.00
L	CONSOL MINING COMPANY LLC	9-7-2	116.12
M	RICKY L. WHITLATCH	NOT ASSD.	16 X 32P
N	KEVIN E. MCGILTON	9-7-17	5.12
O	RICKY L. WHITLATCH	NOT ASSD.	2.75
P	MICHAEL PINE, ET UX	9-7-1	107.46
Q	KEVIN E. MCGILTON	9-7-16	8.00
R	RICKY L. WHITLATCH	9-7-31	16.53
S	RICKY L. WHITLATCH	9-7-15	7.54
T	ARNIE GOODNIGHT, ET UX	9-7-14	39.55
U	HELEN ROBERTSON PAYNE	9-7-4	78.95
V	CHARLES R. JR. & ANNA MARIE HAGEDORN	9-7-3	203.074
W	CHARLES R. JR. & ANNA MARIE HAGEDORN	9-7-3.1	4.579
X	ARNIE GOODNIGHT, ET UX	9-7-5	62.18
Y	TERRI L. & HARIKILIA SAMPSON	9-5-1	111.71
Z	HELEN ROBERTSON PAYNE	9-5-3	85.26
AA	CONSOLIDATION COAL COMPANY	9-5-4.1	22.775
BB	ELMER L. ASTON	9-5-4	108.225

NOTES ON SURVEY

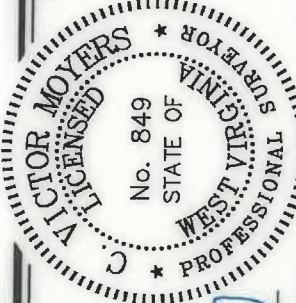
- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS > 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'
- PROPOSED LATERAL OR TOP HOLE OF HEAVEN HILL 3-10HU IS WITHIN 3000' OF THE TOP HOLES OR LATERALS OF APYS 47-051-1910, 47-051-1911, 47-051-1912, 47-051-1952, 47-051-1957 AND PROPOSED WELLS HEAVEN HILL 3-6HU, HEAVEN HILL 3-7HU, HEAVEN HILL 3-8HU, TEN HIGH 1S-14HU, TEN HIGH 1N-17HU, AND TEN HIGH 1N-12HU.
- AS-DRILLED DATA PROVIDED BY TUG HILL OPERATING, LLC.
- PLAT UPDATED TO SHOW AS-DRILLED PATH.



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26031 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 504.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
sllwv.com

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 DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 849 *C. Victor Moyers*



MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8654P10HUADR.dwg
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

WELL TYPE: OIL ___ GAS X INJECTION ___ WASTE DISPOSAL ___ IF "GAS" PRODUCTION ___ DEEP X SHALLOW ___
LOCATION: ELEVATION GROUND = 1,336.70' PROPOSED = 1,326.35' WATERSHED LOWER BOWMAN RUN OF FISH CREEK (HUC 10) COUNTY MARSHALL

DISTRICT MEADE SURFACE OWNER RICKY L. WHITLATCH ROYALTY OWNER RICKY L. WHITLATCH, ET AL - SEE ADDITIONAL SHEETS

PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ OTHER ___ PHYSICAL CHANGE IN WELL (SPECIFY) ___ TARGET FORMATION POINT PLEASANT ESTIMATED DEPTH TVD: 11,898' / TMD: 19,300'

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

7,496' T.H.A.D.

122' B.H.A.D.

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
NAD'83 S.P.C.(FT) N. 478,883.22 E. 1,639,264.78
NAD'83 GEO. LAT-(N) 39.808664 LONG-(W) 80.698348
NAD'83 UTM (M) N. 4,406,566.12 E. 526,248.66
LANDING POINT
NAD'83 S.P.C.(FT) N. 476,547.9 E. 1,632,117.7
NAD'83 GEO. LAT-(N) 39.802211 LONG-(W) 80.697320
NAD'83 UTM (M) N. 4,405,848.8 E. 525,911.1
BOTTOM HOLE
NAD'83 S.P.C.(FT) N. 482,294.6 E. 1,628,973.6
NAD'83 GEO. LAT-(N) 39.817871 LONG-(W) 80.708785
NAD'83 UTM (M) N. 4,407,583.6 E. 524,924.0

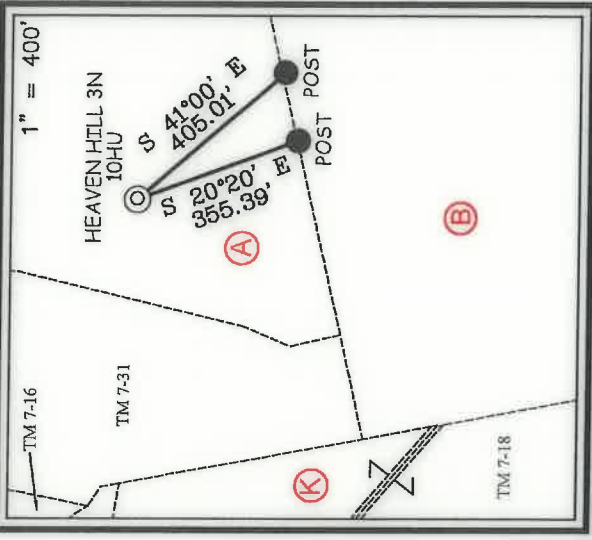
T.H. LATITUDE 39°50'00"
B.H. LATITUDE 39°50'00"
T.H. LONGITUDE 80°42'30"
B.H. LONGITUDE 80°42'30"

B.H. A.D.

8,987' T.H.A.D.

T.H. A.D.

REFERENCES



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE MAY 26, 2020
REVISED JUNE 12, 2020
OPERATORS WELL NO. HEAVEN HILL 3N-10HU
API WELL NO. 47-051-02016

STATE COUNTY PERMIT
STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS



STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

QUADRANGLE GLEN EASTON 7.5'
ACREAGE 72.82±
ACREAGE 72.82±
LEASE NO. SEE ADDITIONAL SHEETS

COUNTY NAME MARSHALL
WATERSHED LOWER BOWMAN RUN OF FISH CREEK (HUC 10)
COUNTY MARSHALL

PERMIT
DESIGNATED AGENT DIANNA STAMPER
ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

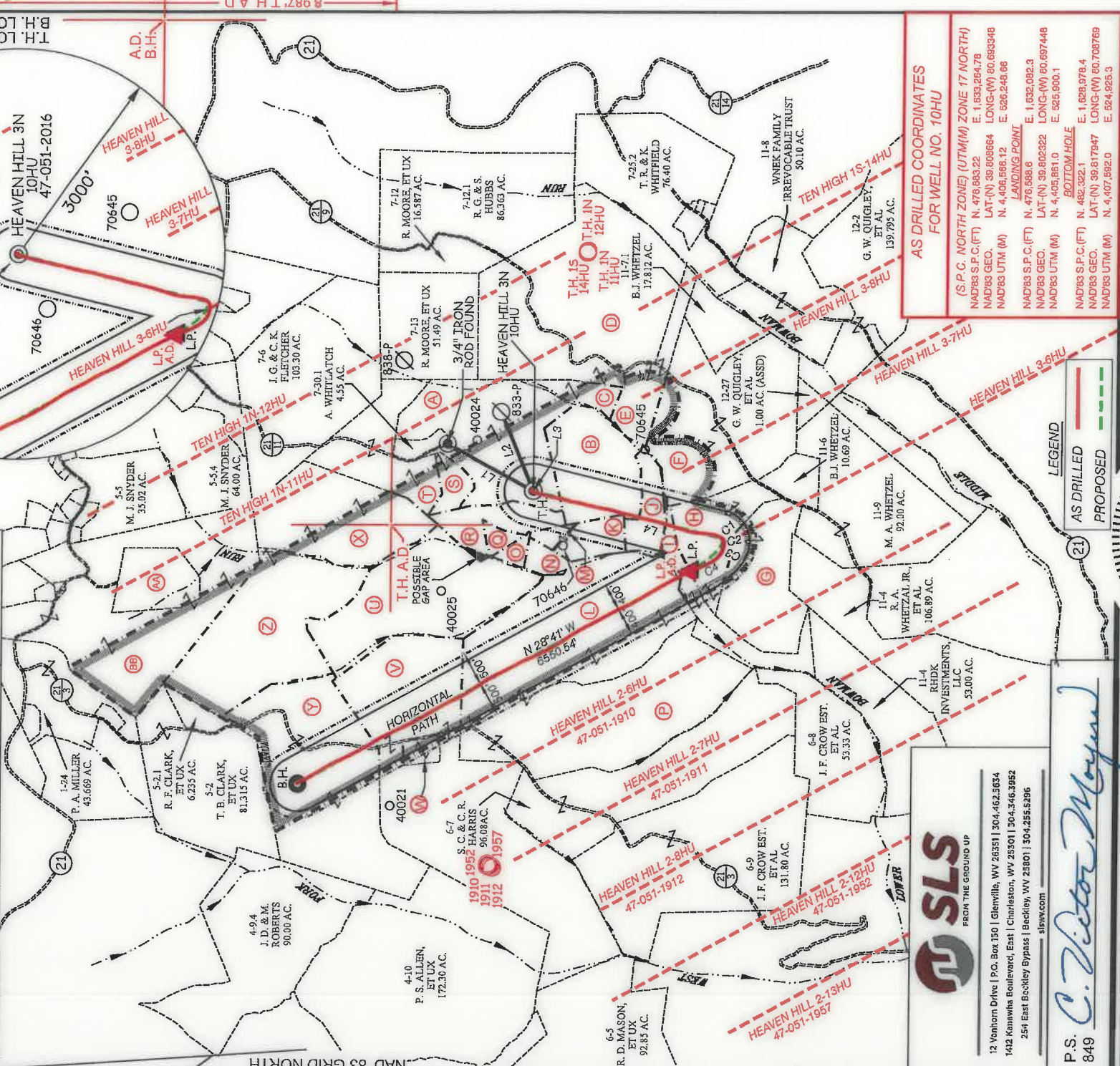
**HEAVEN HILL 3N LEASE
UTICA UNIT - 678.39 AC ±
WELL 10HU
TUG HILL OPERATING**

LINE	BEARING	DISTANCE
L1	N 28°51' E	1432.41'
L2	N 67°40' E	1251.85'
L3	N 00°58' E	20.95'
L4	S 13°58' W	2814.92'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	64.36'	74.74'	S 34°13' W	62.39'
C2	50.49'	79.34'	S 86°14' W	49.64'
C3	135.53'	313.67'	N 58°33' W	134.48'
C4	451.38'	1439.67'	N 36°45' W	449.53'

LINE	BEARING	DISTANCE
L1	N 28°51' E	1432.41'
L2	N 67°40' E	1251.85'
L3	N 00°58' E	20.95'
L4	S 13°58' W	2814.92'

T.H. LATITUDE 39°50'00"
B.H. LATITUDE 39°50'00"
T.H. LONGITUDE 80°42'30"
B.H. LONGITUDE 80°42'30"
5.605 B.H.A.D.
8.987 T.H.A.D.
122' B.H.A.D.
7.496' T.H.A.D.



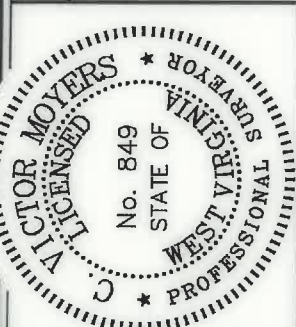
SLS
FROM THE GROUND UP
12 Venhorn Drive | P.O. Box 150 | Glenville, WV 26051 | 304-462-5654
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304-346-3952
254 East Beckley Bypass | Beckley, WV 25801 | 304-255-5296
slews.com

P.S. 849
C. Victor Moyers

AS DRILLED COORDINATES FOR WELL NO. 10HU
(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
NAD83 S.P.C.(F) N. 478,883.22 E. 1,633,264.78
NAD83 GEO. LAT(-N) 39.808664 LONG(-W) 80.693348
NAD83 UTM (M) N. 4,406,566.12 E. 526,248.66
LANDING POINT
NAD83 S.P.C.(F) N. 476,547.9 E. 1,632,117.7
NAD83 GEO. LAT(-N) 39.802211 LONG(-W) 80.697320
NAD83 UTM (M) N. 4,405,848.8 E. 525,911.1
BOTTOM HOLE
NAD83 S.P.C.(F) N. 482,294.6 E. 1,628,973.6
NAD83 GEO. LAT(-N) 39.817871 LONG(-W) 80.709785
NAD83 UTM (M) N. 4,407,588.6 E. 524,924.0

LEGEND
AS DRILLED
PROPOSED

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
NAD83 S.P.C.(F) N. 478,883.22 E. 1,633,264.78
NAD83 GEO. LAT(-N) 39.808664 LONG(-W) 80.693348
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NAD83 GEO. LAT(-N) 39.817871 LONG(-W) 80.709785
NAD83 UTM (M) N. 4,407,588.6 E. 524,924.0



LEGEND
UNIT BOUNDARY
LEASED TRACTS INSIDE
SURFACE LINE
PROPOSED UTICA
WELL LATERAL
400' OFFSET LINE
500' OFFSET LINE
TIE LINE
CREEK
ROAD
COUNTY ROUTE
PROPOSED WELL
EXISTING WELL
PERMITTED WELL
SURFACE OWNER (SEE TABLE)
LEASE # (SEE ADDITIONAL SHEETS)

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

LEGEND
UNIT BOUNDARY
LEASED TRACTS INSIDE
SURFACE LINE
PROPOSED UTICA
WELL LATERAL
400' OFFSET LINE
500' OFFSET LINE
TIE LINE
CREEK
ROAD
COUNTY ROUTE
PROPOSED WELL
EXISTING WELL
PERMITTED WELL
SURFACE OWNER (SEE TABLE)
LEASE # (SEE ADDITIONAL SHEETS)

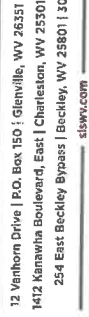
SCALE 1" = 2000'
DATE MAY 26, 2020
REVISED JUNE 12, 2020
OPERATORS WELL NO. HEAVEN HILL 3N-10HU
API WELL NO. 47-051-02016
NO. STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

COUNTY NAME
PERMIT

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

HEAVEN HILL 3N LEASE
UTICA UNIT - 678.39 AC ±
WELL 10HU
TUG HILL OPERATING

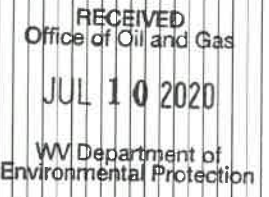


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1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
slswv.com

Table with columns: No., Lease Name or No., Tract, Parcel, Deced Book/Page, and Owner Name. Lists various leaseholders and their corresponding tract and parcel information.

Table with columns: No., Lease Name or No., Tract, Parcel, Deced Book/Page, and Owner Name. Continuation of the leaseholder list from the previous table.

Administrative forms including: COUNTY NAME, PERMIT, LICENSED PROFESSIONAL SURVEYOR (Victor Moyers), STATE OF WEST VIRGINIA, DESIGNATED AGENT (Dianna Stamper), ADDRESS (5400 D Big Tyler Road), and FILE NO. (8654P10HUADR.dwg).



HEAVEN HILL 3N LEASE
UTICA UNIT - 678.39 AC ±
WELL 10HU
TUG HILL OPERATING



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slswv.com

Table with columns: No., Lease Name or No., Tag, Parcel, Oil & Gas Royalty Owner - Continued, Deed Book/Page. Rows include: 254 10154671 L 9-2-2 Unassessed; 255 1015557 M 9-7-17 Unassessed; 256 1015698 N 9-7-17 Robert A Edge and Sherrie N Edge; 257 1015720 N 9-7-17 Karen L Greathouse and Thoms Greathouse; 258 1015721 N 9-7-17 Tina L Edge Montal and Thoms Montal; 259 1016000 N 9-7-17 Sharon Hinesman May and Daniel G May; 260 1016008 N 9-7-17 Rosemary Parkinson and Stephen Parkins; 261 1016051 N 9-7-17 Donna Jean Snider and David Snider; 262 1016052 N 9-7-17 David Hinesman and Joan Ann Hinesman; 263 1016086 N 9-7-17 Elizabeth Ann Kizer and Paul E Kizer; 264 1016413 N 9-7-17 Ronald H Edge Jr and Krista Durbin; 265 1016652 N 9-7-17 David R Hinesman Jr and Inca Carcanted Per by a Thru Court App'd Guardian AS LITERA DAVID WHITE ESQ.; 266 1017567 N 9-7-17 Kevin E McGilton ET AL; 267 1017568 N 9-7-17 Bicky L Whitman ET AL; 268 1015537 O 9-7-17 Unassessed; 269 1015585 P 9-7-17 Michael Rine ET AL; 270 1015685 Q 9-7-17 Kevin E McGilton ET AL; 271 1016827 R 9-7-15 Bicky Whitman ET AL; 272 1015557 S 9-7-18 Goodright Annie ET AL; 273 9-7-18 Payne Helen R; 274 9-7-4 Vanango 21st Century Energy Inc; 275 1015521 U 9-7-3 Patriot Holdings LLC; 276 1016031 V 9-7-3 Charles R Hagedorn Jr ET AL; 277 1016032 W 9-7-3 Patriot Holdings LLC; 278 1016033 X 9-7-3 Charles R Hagedorn Jr ET AL; 279 1016034 Y 9-7-3 Charles R Hagedorn Jr ET AL; 280 1015806 Z 9-7-3 Charles R Hagedorn Jr ET AL; 281 1016827 AA 9-7-11 Charles R Hagedorn Jr ET AL; 282 1016828 AB 9-7-11 Charles R Hagedorn Jr ET AL; 283 1016829 AC 9-7-11 Charles R Hagedorn Jr ET AL; 284 1016830 AD 9-7-11 Charles R Hagedorn Jr ET AL; 285 1016831 AE 9-7-11 Charles R Hagedorn Jr ET AL; 286 1016832 AF 9-7-11 Charles R Hagedorn Jr ET AL; 287 1015508 AG 9-7-5 Soccowight Arnie LLC; 288 9-5-4 SAMPSON TERRY L ET AL; 289 9-5-4 WHAT LAWRENCE ALLEN SR; 290 9-5-3 LEO BEATRICE ANNE SR; 291 9-5-4 SHERRY VAN F SR; 292 9-5-4 JONITA ADAM HAHN SR; 293 9-5-4 BOLD PATSY D SR; 294 9-5-4 GARY RUTH L SR; 295 9-5-4 DANAM ROSA SR; 296 9-5-41 STORCK JEAN CLARE JOHN HERMAN STORCK SR; 297 9-5-41 GARY FARMEN S SR; 298 9-5-41 LEABRITTER ROBERT A ET AL - SR; 299 1015481 BB 9-5-4 DEAN P RIGBY and SUSAN RIGBY; 300 1015482 BB 9-5-4 SUZAN NELSON; 301 1015695 BB 9-5-4 JOHN OWEN BALZ; 302 1015696 BB 9-5-4 SANDRA F THILL; 303 1016658 BB 9-5-4 WAITE RUTH JACKSON PRESOTT; 304 1016659 BB 9-5-4 RUF NEDDEL JACKSON; 305 1016660 BB 9-5-4 MARY ELIZABETH ROSSIGERS; 306 1016661 BB 9-5-4 CYNTHIA HURSON; 307 1016662 BB 9-5-4 ROBERT J RIGBY; 308 1016663 BB 9-5-4 RAUL LAND JAMITAL CORIM; 309 1016664 BB 9-5-4 WILSON LAND EARLY CAMPBELL; 310 1016665 BB 9-5-4 ALEX R CAMPBELL & JOYCE A CAMPBELL; 311 1016666 BB 9-5-4 ANNA MARIE JACKSON; 312 1016667 BB 9-5-4 WILSON ANDREW JACKSON; 313 1016668 BB 9-5-4 ROBERT G FOUNDS and ELEN FOUNDS; 314 1016669 BB 9-5-4 RICHARD THOMAS HIMS & VICKIE J HIMS; 315 1016670 BB 9-5-4 CHARLES LANGSHU ANN PYLE; 316 1016671 BB 9-5-4 JACKIE AND MERRILEE ANN PYLE; 317 1016672 BB 9-5-4 JOHN S AND PATRICIA S DALZO; 318 1016673 BB 9-5-4 CHERIE M TRACY; 319 1016674 BB 9-5-4 SHERRY PYLE BAIR; 320 1016675 BB 9-5-4 JOHN C FOUNDS; 321 1016676 BB 9-5-4 RICARDO ORTIZ; 322 1016677 BB 9-5-4 DONNA ELAINE BRASSETT; 323 1016678 BB 9-5-4 CHARLES ARINE and RUTH KRINE; 324 1016679 BB 9-5-4 WILLIAM DALE BRASSETT; 325 1016680 BB 9-5-4 JESSE BRANN and DONNA DRU CAMPBELL; 326 1016681 BB 9-5-4 JOHN RAYMOND ANDERSON and LINDA JOHNSON; 327 1016682 BB 9-5-4 CHRISTOPHER AND TAMMY RICHARDSON; 328 1016683 BB 9-5-4 WILLIAM AND SHERY D TAYLOR; 329 1016684 BB 9-5-4 DWIGHT D & MARGOLG AN DERSON; 330 1016685 BB 9-5-4 VIRGINIA WHITMAN TRUST DTD J JS, JIMI JOHN WHITMAN TRUSTITE; 331 1016686 BB 9-5-4 DAVID TULLER and SUSAN STORTS TALLER; 332 1016687 BB 9-5-4 MICHAEL L ORTIZ; 333 1016688 BB 9-5-4 HAROLD W PYLE; 334 1016689 BB 9-5-4 TRODA ORTIZ BECK; 335 1016690 BB 9-5-4 MELBA BRASSETT WELCH; 336 1016691 BB 9-5-4 TERRY L AND THELMA A POIT; 337 1016692 BB 9-5-4 ROBERT G FOUNDS; 338 1016693 BB 9-5-4 JAMES H FOUNDS and LYNN M MCKEWY; 339 1016694 BB 9-5-4 TINA MOORE; 340 1016695 BB 9-5-4 MICHAEL W TORRES and LEMICA MITCHELS; 341 1016696 BB 9-5-4 MARK L AND LELLY A TORRES; 342 1016697 BB 9-5-4 BREYER ANN STORTS; 343 1016698 BB 9-5-4 MARY BARCOW DURE; 344 1016699 BB 9-5-4 DENNIS F AND CONSTANCE B NICKOLSON; 345 1016700 BB 9-5-4 LARRY EZZEL TERRELL; 346 1016701 BB 9-5-4 LAURE EZZEL TERRELL; 347 1016702 BB 9-5-4 BRITTANY RICHARDSON; 348 1016703 BB 9-5-4 MARY ELLEN FOUNDS and LAUREN FOUNDS; 349 1016704 BB 9-5-4 THOMAS RAININ; 350 1016705 BB 9-5-4 CINDY L BARBER; 351 1016706 BB 9-5-4 JESSE LEON JR and TERESA GAIL EZZELE; 352 1016707 BB 9-5-4 HENRI NELL JACKSON KENT BARNES; 353 1016708 BB 9-5-4 JAMES N REEVES II and RITA M REEVES; 354 1016709 BB 9-5-4 THOMAS G AND DIANE W BATTES; 355 1016710 BB 9-5-4 SANDRA JEAN WILSON; 356 1016711 BB 9-5-4 JOHN REEVES and NICOLA G REEVES; 357 1016712 BB 9-5-4 JOHN REEVES and NICOLA G REEVES; 358 1016713 BB 9-5-4 BERTHA EZZELE WYATT; 359 1016714 BB 9-5-4 MICHAEL EZZELE; 360 1016715 BB 9-5-4 JOSEPH W FOUNDS; 361 1016716 BB 9-5-4 MILTON HOWARD EZZELE JR and ELIZABETH A EZZELE; 362 1016717 BB 9-5-4 ANDREW MORITZ; 363 1016718 BB 9-5-4 DENNIS M WILSON; 364 1016719 BB 9-5-4 KENDRA WALUSA; 365 1016720 BB 9-5-4 PAUL J WILSON; 366 1016721 BB 9-5-4 SHANE ALLEN and WENDY EARN ALLEN; 367 1016722 BB 9-5-4 KELLY FOUNDS CAMPBELL; 368 1016723 BB 9-5-4 PHELUS T BLAKE; 369 1016724 BB 9-5-4 TERESA LITTE BALVA and DAVID L BALVA; 370 1016725 BB 9-5-4 RICHARD D PYLE;

Table with columns: No., Lease Name or No., Tag, Parcel, Oil & Gas Royalty Owner - Continued, Deed Book/Page. Rows include: 371 1017568 BB 9-5-4 MEDAS JACKSON; 372 1017569 BB 9-5-4 MARISE ANN JACKSON ROBBING GRAHAM; 373 1017570 BB 9-5-4 JUDY L WESTES; 374 1017571 BB 9-5-4 JAMES MICHAEL EZZEL and LUCILE D ZEBEL; 375 1017572 BB 9-5-4 CHERI BANKS KING; 376 1017573 BB 9-5-4 JOHN BRACQUA and PATRICIA A BRACQUA; 377 1017574 BB 9-5-4 MICHAEL RANKIN; 378 1017575 BB 9-5-4 ROGER LYBREL and KATHRYN LYBREL; 379 1017576 BB 9-5-4 JESSE ALLEN JACKSON and ELAURETH D JACKSON; 380 1017577 BB 9-5-4 NATHAN P BRODSKY and BARBARA T BRODSKY; 381 1017578 BB 9-5-4 JAMES MAJACSON; 382 1017579 BB 9-5-4 MARY CHRISTINE MCKENNA; 383 1017580 BB 9-5-4 SCOTT PEBBERT EZZEL; 384 1017581 BB 9-5-4 THE ESTATE OF AGNES TERSE EZZEL CLARK BY DAVID M EDWARDS, EXECUTOR; 385 1019862 BB 9-5-4 KENDRA WALUSA; 386 1019863 BB 9-5-4 MARGO R FINARAIT ROBERT GERNAHI; 387 1019864 BB 9-5-4 VIRGINIA P FOUNDS ROSSERMAN ET; 388 1019865 BB 9-5-4 ROBERT J LABELS & SHERA ALE WILLS; 389 1019866 BB 9-5-4 GEORGE M GONTA JR; 390 1019867 BB 9-5-4 JANICE M GONTA GAVALK; 391 1019868 BB 9-5-4 LARRY D PAULIT and MARY C PAULIT; 392 1019869 BB 9-5-4 BARBARA A RIZZARD; 393 1019870 BB 9-5-4 GARY WARD and SHARON D WARD; 394 1019871 BB 9-5-4 JOANNE MELCH; 395 1019872 BB 9-5-4 WENNY L SMARTEL; 396 1019873 BB 9-5-4 TIM J HOEBBS; 397 1019874 BB 9-5-4 LAURIE DRIGGERS MANERSON; 398 1019875 BB 9-5-4 DEBRA L CAFFAGIONE; 399 1019876 BB 9-5-4 JOSHUA RINE and REBECCA RINE; 400 1019877 BB 9-5-4 HOLY SUE CUTBERT; 401 1019878 BB 9-5-4 CHRISTOPHER A HANIFAN and JACKIE F HANIFAN; 402 1019879 BB 9-5-4 DONLE P WARD and CYNTHIA WARD;

RECEIVED
Office of Oil and Gas
JUL 1 0 2020

WV Department of
Environmental Protection



FILE NO. 8654P10HUADR.dwg

DATE MAY 26 , 20 20
REVISED JUNE 12 , 20 20

OPERATORS WELL NO. HEAVEN HILL 3N-10HU
API NO. 47 - 051 - 02016
WELL STATE COUNTY PERMIT

WELL OPERATOR TUG HILL OPERATING, LLC
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500
FORT WORTH, TX 76107

DESIGNATED AGENT ADDRESS 5400 D BIG TYLER ROAD
CHARLESTON, WV 25313

DIANNA STAMPER
CT CORPORATION SYSTEM

P.S. C. Victor Moyers
849