



<b>Company:</b>	Tug Hill Operating LLC	<b>Local Co-ordinate Reference:</b>	Well Evad 05HM (E)
<b>Project:</b>	Marshall County, West Virginia	<b>TVD Reference:</b>	RKB=1291+18 @ 1309.00ft (Precision 528)
<b>Site:</b>	Accettolo/Evad Pad	<b>MD Reference:</b>	RKB=1291+18 @ 1309.00ft (Precision 528)
<b>Well:</b>	Evad 05HM (E)	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Original Hole	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Surveys Original Hole	<b>Database:</b>	DB_Jul2216dt_v14

<b>Project</b>	Marshall County, West Virginia		
<b>Map System:</b>	Universal Transverse Mercator (US Survey Feet)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD83 West Virginia - HARN		
<b>Map Zone:</b>	Zone 17N (84 W to 78 W)		

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39.74438861  
-80.79327927  
WV Department of  
Environmental Protection  
0.132 "

<b>Site</b>	Accettolo/Evad Pad		
<b>Site Position:</b>		<b>Northing:</b>	14,433,724.12 usft
<b>From:</b>	Lat/Long	<b>Easting:</b>	1,698,524.31 usft
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	13-3/16 "
		<b>Latitude:</b>	39.74438861
		<b>Longitude:</b>	-80.79327927
		<b>Grid Convergence:</b>	0.132 "

<b>Well</b>	Evad 05HM (E)					
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>	14,433,711.14 usft	<b>Latitude:</b>	39.74435282
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	1,698,544.71 usft	<b>Longitude:</b>	-80.79320681
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	1,291.00 ft

<b>Wellbore</b>	Original Hole				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (")</b>	<b>Dip Angle (")</b>	<b>Field Strength (nT)</b>
	IGRF2015	5/3/2019	-8.680	66.778	51,944.76258110

<b>Design</b>	Surveys Original Hole				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (")</b>	
	0.00	0.00	0.00	137.02	

<b>Survey Program</b>	<b>Date</b>	5/18/2019			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
159.00	998.00	MWD surf (Original Hole)	MWD	MWD - Standard	
1,084.00	15,591.00	MWD (Original Hole)	MWD	MWD - Standard	
15,641.00	15,641.00	Projection (Original Hole)	MWD	MWD - Standard	

<b>Survey</b>										
<b>Measured Depth (ft)</b>	<b>Inclination (")</b>	<b>Azimuth (")</b>	<b>Vertical Depth (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Map Northing (usft)</b>	<b>Map Easting (usft)</b>	<b>Latitude</b>	<b>Longitude</b>	
0.00	0.00	0.00	0.00	0.00	0.00	14,433,711.14	1,698,544.71	39.74435282	-80.79320681	
159.00	0.61	56.93	159.00	0.46	0.71	14,433,711.60	1,698,545.41	39.74435409	-80.79320428	
<b>MWD surveys</b>										
189.00	0.60	1.55	189.00	0.71	0.85	14,433,711.84	1,698,545.55	39.74435476	-80.79320379	
220.00	0.03	330.31	219.99	0.88	0.85	14,433,712.01	1,698,545.55	39.74435522	-80.79320379	
250.00	0.36	17.04	249.99	0.97	0.87	14,433,712.11	1,698,545.58	39.74435549	-80.79320370	
281.00	0.34	38.75	280.99	1.14	0.96	14,433,712.27	1,698,545.66	39.74435594	-80.79320340	
342.00	0.52	116.62	341.99	1.15	1.32	14,433,712.29	1,698,546.02	39.74435598	-80.79320211	
432.00	0.35	98.33	431.99	0.93	1.96	14,433,712.07	1,698,546.66	39.74435537	-80.79319985	
524.00	0.30	338.93	523.99	1.12	2.15	14,433,712.25	1,698,546.85	39.74435587	-80.79319916	

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<b>Site:</b>	Accetololo/Evad Pad	<b>MD Reference:</b>	RKB=1291+18 @ 1309.00ft (Precision 528)
<b>Well:</b>	Evad 05HM (E)	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Original Hole	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Surveys Original Hole	<b>Database:</b>	DB_Jul2216dt_v14

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Survey										WV Department of Environmental Protection
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
614.00	0.37	100.57	613.99	1.28	2.35	14,433,712.42	1,698,547.05	39.74435633	-80.79319845	
704.00	0.16	17.84	703.99	1.35	2.67	14,433,712.48	1,698,547.38	39.74435651	-80.79319729	
799.00	0.22	73.74	798.99	1.53	2.89	14,433,712.66	1,698,547.59	39.74435699	-80.79319653	
894.00	0.18	203.07	893.99	1.44	3.00	14,433,712.57	1,698,547.71	39.74435676	-80.79319611	
998.00	0.15	112.97	997.99	1.24	3.07	14,433,712.37	1,698,547.77	39.74435620	-80.79319589	
1,084.00	0.27	355.87	1,083.99	1.39	3.15	14,433,712.53	1,698,547.86	39.74435663	-80.79319558	
1,180.00	0.36	57.93	1,179.99	1.78	3.39	14,433,712.92	1,698,548.10	39.74435769	-80.79319472	
1,273.00	0.38	121.46	1,272.98	1.77	3.90	14,433,712.91	1,698,548.61	39.74435767	-80.79319291	
1,368.00	1.07	106.47	1,367.98	1.36	5.02	14,433,712.49	1,698,549.73	39.74435652	-80.79318893	
1,463.00	2.09	112.15	1,462.94	0.45	7.48	14,433,711.59	1,698,552.18	39.74435402	-80.79318020	
1,557.00	3.31	115.51	1,556.83	-1.36	11.52	14,433,709.77	1,698,556.22	39.74434901	-80.79316585	
1,652.00	4.80	111.02	1,651.59	-3.97	17.70	14,433,707.17	1,698,562.41	39.74434181	-80.79314387	
1,747.00	6.11	100.40	1,746.16	-6.31	26.39	14,433,704.83	1,698,571.09	39.74433533	-80.79311300	
1,841.00	7.32	88.24	1,839.52	-7.03	37.29	14,433,704.11	1,698,582.00	39.74433329	-80.79307420	
1,937.00	8.78	76.42	1,934.58	-5.12	50.53	14,433,706.02	1,698,595.23	39.74433845	-80.79302710	
2,032.00	10.67	69.69	2,028.21	-0.36	65.83	14,433,710.77	1,698,610.53	39.74435141	-80.79297264	
2,127.00	12.09	65.34	2,121.34	6.84	83.12	14,433,717.98	1,698,627.82	39.74437108	-80.79291107	
2,223.00	12.97	64.21	2,215.06	15.72	101.95	14,433,726.86	1,698,646.66	39.74439536	-80.79284398	
2,317.00	12.91	69.14	2,306.67	24.05	121.26	14,433,735.19	1,698,665.97	39.74441811	-80.79277521	
2,412.00	11.89	75.39	2,399.46	30.30	140.65	14,433,741.44	1,698,685.36	39.74443514	-80.79270619	
2,507.00	12.05	78.70	2,492.39	34.71	159.85	14,433,745.85	1,698,704.55	39.74444714	-80.79263786	
2,602.00	12.21	78.14	2,585.27	38.72	179.40	14,433,749.86	1,698,724.11	39.74445802	-80.79256826	
2,695.00	11.50	77.27	2,676.29	42.78	198.07	14,433,753.92	1,698,742.78	39.74446906	-80.79250182	
2,787.00	10.94	73.98	2,766.53	47.21	215.41	14,433,758.35	1,698,760.11	39.74448112	-80.79244011	
2,884.00	10.40	68.94	2,861.86	52.90	232.43	14,433,764.04	1,698,777.13	39.74449663	-80.79237952	
2,978.00	11.21	65.18	2,954.19	59.79	248.64	14,433,770.92	1,698,793.34	39.74451543	-80.79232179	
3,073.00	11.90	63.84	3,047.26	67.98	265.81	14,433,779.12	1,698,810.51	39.74453783	-80.79226063	
3,168.00	13.85	73.56	3,139.88	75.52	285.51	14,433,786.65	1,698,830.22	39.74455840	-80.79219048	
3,262.00	16.96	71.03	3,230.49	83.16	309.27	14,433,794.30	1,698,853.98	39.74457924	-80.79210588	
3,357.00	17.22	78.44	3,321.31	90.48	336.16	14,433,801.62	1,698,880.86	39.74459918	-80.79201018	
3,452.00	20.60	83.61	3,411.18	95.16	366.55	14,433,806.30	1,698,911.26	39.74461184	-80.79190201	
3,548.00	23.29	82.45	3,500.21	99.54	402.16	14,433,810.67	1,698,946.86	39.74462362	-80.79177531	
3,643.00	24.41	75.34	3,587.12	106.97	439.78	14,433,818.11	1,698,984.48	39.74464381	-80.79164142	
3,738.00	27.16	77.02	3,672.65	116.82	479.90	14,433,827.95	1,699,024.61	39.74467058	-80.79149858	
3,833.00	30.64	77.65	3,755.81	126.87	524.69	14,433,838.00	1,699,069.40	39.74469789	-80.79133915	
3,928.00	33.13	75.31	3,836.47	138.63	573.46	14,433,849.76	1,699,118.17	39.74472989	-80.79116556	
4,022.00	30.68	72.16	3,916.27	152.49	621.15	14,433,863.63	1,699,165.85	39.74476766	-80.79099580	
4,118.00	30.99	74.41	3,998.70	166.64	668.27	14,433,877.77	1,699,212.98	39.74480620	-80.79082804	
4,213.00	32.72	72.57	4,079.39	180.90	716.33	14,433,892.04	1,699,261.03	39.74484507	-80.79065695	
4,307.00	30.41	69.38	4,159.49	196.90	762.84	14,433,908.03	1,699,307.55	39.74488869	-80.79049134	
4,402.00	30.42	73.01	4,241.42	212.39	808.35	14,433,923.53	1,699,353.06	39.74493095	-80.79032931	
4,497.00	32.30	76.50	4,322.54	225.35	856.04	14,433,936.48	1,699,400.75	39.74496623	-80.79015955	
4,592.00	30.26	73.54	4,403.73	238.06	903.69	14,433,949.19	1,699,448.39	39.74500083	-80.78998995	
4,687.00	30.90	73.55	4,485.52	251.75	950.04	14,433,962.88	1,699,494.74	39.74503812	-80.78982494	
4,782.00	33.16	73.38	4,566.05	266.09	998.33	14,433,977.22	1,699,543.04	39.74507720	-80.78965300	
4,878.00	30.86	70.99	4,647.46	281.62	1,046.78	14,433,992.76	1,699,591.48	39.74511954	-80.78948052	
4,972.00	31.49	71.93	4,727.88	297.09	1,092.91	14,434,008.22	1,699,637.62	39.74516172	-80.78931627	
5,066.00	29.43	69.26	4,808.91	312.88	1,137.86	14,434,024.02	1,699,682.56	39.74520481	-80.78915625	
5,161.00	28.56	73.26	4,892.01	327.69	1,181.44	14,434,038.83	1,699,726.14	39.74524520	-80.78900109	
5,255.00	29.65	78.02	4,974.15	338.99	1,225.70	14,434,050.13	1,699,770.41	39.74527594	-80.78884350	
5,350.00	31.84	77.24	5,055.79	349.41	1,273.14	14,434,060.54	1,699,817.84	39.74530423	-80.78867467	
5,445.00	29.14	74.60	5,137.65	361.09	1,319.89	14,434,072.22	1,699,864.59	39.74533601	-80.78850826	
5,540.00	29.91	76.21	5,220.32	372.87	1,365.19	14,434,084.01	1,699,909.89	39.74536809	-80.78834699	
5,634.00	32.02	76.42	5,300.91	384.31	1,412.18	14,434,095.45	1,699,956.88	39.74539920	-80.78817973	
5,728.00	30.10	73.03	5,381.44	397.05	1,458.96	14,434,108.18	1,700,003.66	39.74543386	-80.78801321	



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Survey										WV Department of Environmental Protection
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5.823.00	29.41	74.05	5,463.91	410.41	1,504.17	14,434,121.54	1,700,048.87	39.74547027	-80.78785225	
5.919.00	30.11	74.46	5,547.25	423.34	1,550.03	14,434,134.47	1,700,094.73	39.74550547	-80.78768898	
6.014.00	27.16	72.22	5,630.63	436.35	1,593.65	14,434,147.48	1,700,138.35	39.74554091	-80.78753370	
6,109.00	28.78	71.16	5,714.53	450.35	1,635.94	14,434,161.49	1,700,180.64	39.74557911	-80.78738312	
6,203.00	31.13	70.57	5,795.97	465.74	1,680.28	14,434,176.88	1,700,224.98	39.74562109	-80.78722526	
6,298.00	29.22	65.47	5,878.10	483.55	1,724.54	14,434,194.68	1,700,269.24	39.74566969	-80.78706764	
6,366.00	27.95	61.92	5,937.82	497.94	1,753.70	14,434,209.07	1,700,298.41	39.74570902	-80.78696377	
6,427.00	26.77	60.10	5,991.99	511.52	1,778.23	14,434,222.65	1,700,322.93	39.74574615	-80.78687641	
6,474.00	27.78	65.28	6,033.77	521.37	1,797.36	14,434,232.51	1,700,342.06	39.74577310	-80.78680828	
6,521.00	30.42	71.35	6,074.85	529.76	1,818.59	14,434,240.90	1,700,363.29	39.74579600	-80.78673267	
6,568.00	34.59	76.53	6,114.48	536.68	1,842.85	14,434,247.81	1,700,387.55	39.74581484	-80.78664629	
6,615.00	37.01	87.25	6,152.64	540.47	1,869.99	14,434,251.61	1,700,414.69	39.74582507	-80.78654973	
6,662.00	39.30	98.24	6,189.64	539.01	1,898.88	14,434,250.15	1,700,443.59	39.74582088	-80.78644693	
6,711.00	42.37	105.01	6,226.72	532.51	1,930.21	14,434,243.64	1,700,474.91	39.74580281	-80.78633553	
6,758.00	44.18	109.05	6,260.95	523.06	1,961.00	14,434,234.19	1,700,505.70	39.74577666	-80.78622609	
6,806.00	46.29	114.59	6,294.76	510.38	1,992.60	14,434,221.51	1,700,537.30	39.74574162	-80.78611378	
6,853.00	47.52	116.70	6,326.87	495.52	2,023.53	14,434,206.65	1,700,568.23	39.74570061	-80.78600386	
6,901.00	48.22	119.42	6,359.07	478.77	2,054.94	14,434,189.91	1,700,599.64	39.74565441	-80.78589227	
6,948.00	50.77	124.26	6,389.61	459.91	2,085.26	14,434,171.04	1,700,629.96	39.74562041	-80.78578455	
6,996.00	54.55	127.42	6,418.72	437.55	2,116.17	14,434,148.68	1,700,660.87	39.74554080	-80.78567478	
7,043.00	57.10	129.18	6,445.12	413.45	2,146.68	14,434,124.58	1,700,691.38	39.74547441	-80.78556646	
7,091.00	58.29	130.41	6,470.78	387.48	2,177.84	14,434,098.61	1,700,722.55	39.74540289	-80.78545579	
7,138.00	61.76	133.05	6,494.26	360.37	2,208.21	14,434,071.51	1,700,752.91	39.74532825	-80.78534800	
7,186.00	65.49	135.33	6,515.58	330.40	2,239.03	14,434,041.53	1,700,783.73	39.74524572	-80.78523862	
7,233.00	68.88	137.70	6,533.80	298.96	2,268.82	14,434,010.10	1,700,813.52	39.74515920	-80.78513288	
7,281.00	70.55	140.78	6,550.45	264.86	2,298.21	14,433,976.00	1,700,842.91	39.74506536	-80.78502864	
7,333.00	74.15	143.24	6,566.21	225.81	2,328.69	14,433,936.95	1,700,873.39	39.74495792	-80.78492052	
7,376.00	78.29	145.00	6,576.46	191.98	2,353.16	14,433,903.12	1,700,897.86	39.74486844	-80.78483377	
7,471.00	89.54	148.25	6,586.51	113.22	2,405.01	14,433,824.35	1,700,949.71	39.74464819	-80.78464998	
7,565.00	89.76	147.99	6,587.09	33.40	2,454.66	14,433,744.53	1,700,999.36	39.74442866	-80.78447405	
7,660.00	89.93	147.81	6,587.34	-47.08	2,505.14	14,433,664.06	1,701,049.84	39.74420731	-80.78429515	
7,755.00	89.58	148.25	6,587.75	-127.67	2,555.44	14,433,583.47	1,701,100.14	39.74398566	-80.78411690	
7,850.00	89.36	148.51	6,588.63	-208.56	2,605.24	14,433,502.57	1,701,149.94	39.74376317	-80.78394041	
7,945.00	88.75	148.60	6,590.20	-289.60	2,654.79	14,433,421.54	1,701,199.50	39.74354029	-80.78376482	
8,039.00	90.64	149.74	6,590.70	-370.31	2,702.97	14,433,340.83	1,701,247.67	39.74331832	-80.78359415	
8,134.00	90.20	149.66	6,590.00	-452.33	2,750.89	14,433,258.81	1,701,295.59	39.74309275	-80.78342435	
8,229.00	89.98	149.04	6,589.85	-534.06	2,799.32	14,433,177.08	1,701,344.02	39.74286798	-80.78325277	
8,324.00	90.24	150.54	6,589.67	-616.15	2,847.12	14,433,094.98	1,701,391.82	39.74264220	-80.78308343	
8,419.00	89.80	150.01	6,589.63	-698.65	2,894.23	14,433,012.49	1,701,438.93	39.74241532	-80.78291657	
8,514.00	89.27	150.01	6,590.41	-780.93	2,941.71	14,432,930.21	1,701,486.41	39.74218905	-80.78274836	
8,610.00	90.90	150.80	6,590.26	-864.40	2,989.12	14,432,846.74	1,701,533.82	39.74195949	-80.78258043	
8,705.00	90.33	151.06	6,589.24	-947.43	3,035.28	14,432,763.71	1,701,579.98	39.74173117	-80.78241695	
8,800.00	89.93	150.98	6,589.03	-1,030.53	3,081.30	14,432,680.60	1,701,626.00	39.74150263	-80.78225393	
8,894.00	89.32	150.71	6,589.64	-1,112.62	3,127.10	14,432,598.52	1,701,671.80	39.74127689	-80.78209174	
8,989.00	90.81	151.50	6,589.54	-1,195.79	3,173.00	14,432,515.35	1,701,717.70	39.74104817	-80.78192917	
9,084.00	90.37	151.41	6,588.56	-1,279.24	3,218.39	14,432,431.90	1,701,763.09	39.74081870	-80.78176841	
9,179.00	90.02	150.89	6,588.23	-1,362.45	3,264.23	14,432,348.69	1,701,808.93	39.74058988	-80.78160607	
9,273.00	92.13	150.89	6,586.47	-1,444.55	3,309.95	14,432,266.58	1,701,854.65	39.74036408	-80.78144414	
9,368.00	92.00	150.45	6,583.05	-1,527.32	3,356.46	14,432,183.82	1,701,901.15	39.74013646	-80.78127943	
9,462.00	90.42	151.24	6,581.06	-1,609.39	3,402.24	14,432,101.75	1,701,946.94	39.73991077	-80.78111728	
9,557.00	90.11	152.03	6,580.62	-1,692.98	3,447.37	14,432,018.15	1,701,992.07	39.73968090	-80.78095746	
9,652.00	89.71	152.21	6,580.77	-1,776.96	3,491.79	14,431,934.18	1,702,036.49	39.73944999	-80.78080016	
9,748.00	89.05	153.08	6,581.81	-1,862.22	3,535.90	14,431,848.92	1,702,080.60	39.73921554	-80.78064400	
9,843.00	88.70	150.80	6,583.68	-1,946.03	3,580.58	14,431,765.11	1,702,125.28	39.73898507	-80.78048580	
9,938.00	90.11	148.78	6,584.66	-2,028.11	3,628.37	14,431,683.02	1,702,173.07	39.73875932	-80.78031650	



<b>Company:</b>	Tug Hill Operating LLC	<b>Local Co-ordinate Reference:</b>	Well Evad 05HM (E)
<b>Project:</b>	Marshall County, West Virginia	<b>TVD Reference:</b>	RKB=1291+18 @ 1309.00ft (Precision 528)
<b>Site:</b>	Accettolo/Evad Pad	<b>MD Reference:</b>	RKB=1291+18 @ 1309.00ft (Precision 528)
<b>Well:</b>	Evad 05HM (E)	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Original Hole	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Surveys Original Hole	<b>Database:</b>	DB_Jul2216dt_v14

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
15,246.00	90.81	149.39	6,605.09	-6,614.79	6,295.38	14,427,096.36	1,704,840.07	39.72614461	-80.77087108
15,342.00	90.64	150.36	6,603.88	-6,697.82	6,343.55	14,427,013.33	1,704,888.25	39.72591626	-80.77070049
15,436.00	90.15	150.54	6,603.23	-6,779.59	6,389.91	14,426,931.56	1,704,934.60	39.72569137	-80.77053636
15,531.00	89.89	150.71	6,603.20	-6,862.38	6,436.51	14,426,848.77	1,704,981.20	39.72546369	-80.77037138
15,591.00	89.71	150.27	6,603.41	-6,914.59	6,466.07	14,426,796.56	1,705,010.76	39.72532008	-80.77026675
<b>Survey @ 15591.00 MD 6603.41 TVD</b>									
15,641.00	89.71	150.27	6,603.66	-6,958.01	6,490.86	14,426,753.14	1,705,035.55	39.72520067	-80.77017896
<b>Survey projected to 15641.00 MD 6603.66 TVD</b>									

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
159.00	159.00	0.46	0.71	MWD surveys
15,591.00	6,603.41	-6,914.59	6,466.07	Survey @ 15591.00 MD 6603.41 TVD
15,641.00	6,603.66	-6,958.01	6,490.86	Survey projected to 15641.00 MD 6603.66 TVD

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**JUL 20 2020**  
 WV Department of  
 Environmental Protection