

<b>Company:</b>	Tug Hill Operating LLC	<b>Local Co-ordinate Reference:</b>	Well Heaven Hill 2W-13 HU (slot M)
<b>Project:</b>	Marshall County, West Virginia	<b>TVD Reference:</b>	RKB=1331+33 @ 1364.00usft (Nabors X08)
<b>Site:</b>	Heaven Hill 2	<b>MD Reference:</b>	RKB=1331+33 @ 1364.00usft (Nabors X08)
<b>Well:</b>	Heaven Hill 2W-13 HU (slot M)	<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_Aug0116_LT_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>RECEIVED</b> <b>Office of Oil and Gas</b>	
<b>Map Zone:</b>	Zone 17N (84 W to 78 W)		

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<b>Site</b>	Heaven Hill 2		
<b>Site Position:</b>		<b>Northing:</b>	14,457,660.30 usft
<b>From:</b>	Lat/Long	<b>Easting:</b>	1,720,974.97 usft
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "
		<b>Latitude:</b>	39.80995400
		<b>Longitude:</b>	-80.71313800
		<b>Grid Convergence:</b>	0.18 °

WV Department of Environmental Protection

<b>Well</b>	Heaven Hill 2W-13 HU (slot M)		
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b> 14,457,704.27 usft
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b> 1,721,018.75 usft
<b>Position Uncertainty</b>	0.00 usft	<b>Wellhead Elevation:</b>	usft
		<b>Latitude:</b>	39.81007436
		<b>Longitude:</b>	-80.71298161
		<b>Ground Level:</b>	1,331.00 usft

<b>Wellbore</b>	Original Hole		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	5/15/2018	-8.72	66.90	52,080.32841641

<b>Design</b>	Surveys Original Hole		
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<b>Audit Notes:</b>				
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b> 0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	174.91

Survey Program	Date	6/3/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
30.00	1,200.00	Gyro (Original Hole)	NS-GYRO-MS	North sensing gyrocompassing m/s
1,450.00	11,172.00	MWD TIP=1200 MD (Original Hole)	MWD	MWD - Standard
11,232.62	19,125.00	MWD Lat (Original Hole)	MWD	MWD - Standard
19,175.00	19,175.00	Projection (Original Hole)	MWD	MWD - Standard

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,457,704.27	1,721,018.75	39.81007436	-80.71298161
30.00	0.46	35.74	30.00	0.10	0.07	14,457,704.37	1,721,018.82	39.81007463	-80.71298136
<b>Gyro</b>									
60.00	0.91	310.76	60.00	0.35	-0.04	14,457,704.62	1,721,018.71	39.81007533	-80.71298175
90.00	1.20	298.85	89.99	0.66	-0.50	14,457,704.93	1,721,018.25	39.81007617	-80.71298337
120.00	1.07	301.80	119.99	0.96	-1.01	14,457,705.23	1,721,017.74	39.81007700	-80.71298519
150.00	1.12	315.32	149.98	1.31	-1.45	14,457,705.58	1,721,017.30	39.81007798	-80.71298677
180.00	1.17	324.48	179.98	1.77	-1.84	14,457,706.04	1,721,016.91	39.81007924	-80.71298813
210.00	1.20	347.25	209.97	2.33	-2.08	14,457,706.60	1,721,016.66	39.81008077	-80.71298901



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<b>Site:</b>	Heaven Hill 2	<b>MD Reference:</b>	RKB=1331+33 @ 1364.00usft (Nabors X08)
<b>Well:</b>	Heaven Hill 2W-13 HU (slot M)	<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_Aug0116_LT_v14

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Survey										WV Department of Environmental Protection	
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude		
240.00	1.02	332.68	239.96	2.87	-2.28	14,457,707.14	1,721,016.47	39.81008227	-80.71298968		
270.00	1.08	341.81	269.96	3.38	-2.49	14,457,707.65	1,721,016.26	39.81008366	-80.71299043		
300.00	1.07	321.16	299.95	3.86	-2.75	14,457,708.13	1,721,016.00	39.81008500	-80.71299136		
330.00	1.00	330.01	329.95	4.31	-3.06	14,457,708.58	1,721,015.69	39.81008622	-80.71299245		
360.00	1.18	321.93	359.94	4.78	-3.38	14,457,709.05	1,721,015.37	39.81008751	-80.71299359		
390.00	1.17	312.11	389.94	5.23	-3.80	14,457,709.50	1,721,014.95	39.81008875	-80.71299507		
420.00	0.93	338.83	419.93	5.66	-4.11	14,457,709.93	1,721,014.64	39.81008994	-80.71299619		
450.00	1.07	321.96	449.93	6.11	-4.37	14,457,710.38	1,721,014.38	39.81009117	-80.71299711		
480.00	1.14	337.26	479.92	6.60	-4.66	14,457,710.87	1,721,014.09	39.81009253	-80.71299813		
510.00	0.83	334.32	509.92	7.07	-4.87	14,457,711.34	1,721,013.88	39.81009383	-80.71299887		
540.00	0.48	340.99	539.92	7.39	-5.00	14,457,711.66	1,721,013.74	39.81009470	-80.71299933		
570.00	0.38	27.15	569.91	7.60	-5.00	14,457,711.87	1,721,013.75	39.81009526	-80.71299933		
600.00	0.49	22.11	599.91	7.80	-4.91	14,457,712.07	1,721,013.84	39.81009583	-80.71299899		
630.00	0.47	77.62	629.91	7.95	-4.74	14,457,712.22	1,721,014.01	39.81009623	-80.71299839		
660.00	0.74	117.00	659.91	7.89	-4.45	14,457,712.16	1,721,014.30	39.81009606	-80.71299735		
690.00	1.30	142.38	689.91	7.53	-4.06	14,457,711.80	1,721,014.68	39.81009507	-80.71299600		
720.00	1.85	134.10	719.90	6.92	-3.51	14,457,711.19	1,721,015.24	39.81009340	-80.71299403		
750.00	2.39	145.63	749.87	6.07	-2.81	14,457,710.34	1,721,015.94	39.81009105	-80.71299154		
780.00	2.93	145.58	779.84	4.92	-2.02	14,457,709.19	1,721,016.73	39.81008789	-80.71298875		
810.00	3.14	146.08	809.80	3.61	-1.13	14,457,707.88	1,721,017.62	39.81008427	-80.71298559		
840.00	3.30	149.31	839.75	2.18	-0.23	14,457,706.45	1,721,018.52	39.81008036	-80.71298241		
870.00	3.65	149.62	869.70	0.62	0.69	14,457,704.89	1,721,019.44	39.81007605	-80.71297914		
900.00	3.77	149.42	899.63	-1.06	1.68	14,457,703.21	1,721,020.43	39.81007144	-80.71297565		
930.00	3.92	149.09	929.57	-2.79	2.71	14,457,701.48	1,721,021.45	39.81006669	-80.71297201		
960.00	3.56	156.68	959.50	-4.52	3.60	14,457,699.75	1,721,022.35	39.81006191	-80.71296884		
990.00	3.07	156.10	989.45	-6.11	4.30	14,457,698.16	1,721,023.04	39.81005754	-80.71296638		
1,020.00	2.59	160.97	1,019.42	-7.49	4.84	14,457,696.78	1,721,023.59	39.81005376	-80.71296445		
1,050.00	2.41	159.66	1,049.39	-8.72	5.28	14,457,695.55	1,721,024.03	39.81005037	-80.71296290		
1,080.00	2.29	164.61	1,079.36	-9.89	5.66	14,457,694.38	1,721,024.41	39.81004716	-80.71296157		
1,110.00	2.24	155.81	1,109.34	-11.00	6.06	14,457,693.27	1,721,024.81	39.81004410	-80.71296016		
1,140.00	1.96	156.46	1,139.32	-12.01	6.51	14,457,692.26	1,721,025.25	39.81004133	-80.71295858		
1,170.00	1.79	154.99	1,169.30	-12.90	6.91	14,457,691.37	1,721,025.66	39.81003887	-80.71295716		
1,200.00	1.73	154.14	1,199.29	-13.73	7.30	14,457,690.54	1,721,026.05	39.81003658	-80.71295576		
1,450.00	2.21	264.41	1,449.21	-17.60	4.15	14,457,686.67	1,721,022.90	39.81002599	-80.71296703		
<b>MWD surveys</b>											
1,466.00	2.70	262.42	1,465.19	-17.68	3.47	14,457,686.59	1,721,022.22	39.81002578	-80.71296945		
1,561.00	6.19	256.34	1,559.89	-19.18	-3.73	14,457,685.09	1,721,015.02	39.81002171	-80.71299510		
1,655.00	10.21	240.74	1,652.92	-24.46	-15.93	14,457,679.81	1,721,002.82	39.81000734	-80.71303860		
1,750.00	7.38	219.63	1,746.82	-33.27	-27.17	14,457,671.00	1,720,991.58	39.80998322	-80.71307873		
1,844.00	4.20	201.83	1,840.34	-41.12	-32.30	14,457,663.15	1,720,986.45	39.80996171	-80.71309710		
1,939.00	3.18	207.91	1,935.14	-46.68	-34.83	14,457,657.59	1,720,983.92	39.80994647	-80.71310616		
2,033.00	4.29	228.93	2,028.94	-51.29	-38.70	14,457,652.98	1,720,980.05	39.80993384	-80.71312000		
2,128.00	6.50	230.43	2,123.51	-57.05	-45.52	14,457,647.22	1,720,973.23	39.80991808	-80.71314436		
2,223.00	6.58	220.21	2,217.90	-64.64	-53.18	14,457,639.63	1,720,965.57	39.80989732	-80.71317172		
2,317.00	4.11	189.62	2,311.50	-72.07	-57.22	14,457,632.20	1,720,961.52	39.80987693	-80.71318620		
2,412.00	3.09	192.00	2,406.31	-77.94	-58.32	14,457,626.34	1,720,960.42	39.80986085	-80.71319019		
2,507.00	3.89	236.42	2,501.15	-82.22	-61.54	14,457,622.05	1,720,957.21	39.80984910	-80.71320169		
2,601.00	6.01	250.52	2,594.80	-85.63	-68.84	14,457,618.64	1,720,949.91	39.80983981	-80.71322772		
2,696.00	4.11	252.64	2,689.42	-88.30	-76.78	14,457,615.97	1,720,941.97	39.80983254	-80.71325601		
2,791.00	3.71	256.52	2,784.20	-90.03	-83.02	14,457,614.24	1,720,935.73	39.80982784	-80.71327825		
2,860.00	5.21	260.53	2,852.99	-91.07	-88.28	14,457,613.20	1,720,930.47	39.80982504	-80.71329699		
2,977.00	6.50	252.02	2,969.38	-93.99	-99.82	14,457,610.28	1,720,918.93	39.80981712	-80.71333812		
3,072.00	10.38	241.23	3,063.34	-99.77	-112.44	14,457,604.50	1,720,906.31	39.80980136	-80.71338313		
3,166.00	12.68	230.91	3,155.45	-110.35	-127.87	14,457,593.92	1,720,890.88	39.80977243	-80.71343821		
3,261.00	12.90	225.01	3,248.09	-124.43	-143.47	14,457,579.84	1,720,875.28	39.80973392	-80.71349389		

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Survey									WV Department of Environmental Protection	
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
3.355.00	12.28	225.14	3,339.83	-138.90	-157.97	14,457,565.37	1,720,860.78	39.80969431	-80.71354572	
3.450.00	11.89	224.44	3,432.73	-153.01	-171.99	14,457,551.26	1,720,846.76	39.80965567	-80.71359578	
3.545.00	13.30	230.52	3,525.44	-166.95	-187.27	14,457,537.32	1,720,831.47	39.80961753	-80.71365037	
3.639.00	15.82	233.91	3,616.42	-181.37	-205.98	14,457,522.90	1,720,812.77	39.80957809	-80.71371714	
3.733.00	18.78	227.30	3,706.17	-199.18	-227.46	14,457,505.09	1,720,791.29	39.80952935	-80.71379383	
3.828.00	19.71	217.91	3,795.88	-222.20	-248.54	14,457,482.07	1,720,770.20	39.80946633	-80.71386918	
3.923.00	22.40	215.80	3,884.53	-249.53	-268.98	14,457,454.74	1,720,749.77	39.80939147	-80.71394226	
4.018.00	24.08	217.83	3,971.82	-279.52	-291.46	14,457,424.75	1,720,727.29	39.80930930	-80.71402263	
4.112.00	22.01	219.72	4,058.31	-308.22	-314.48	14,457,396.05	1,720,704.27	39.80923069	-80.71410493	
4.207.00	20.81	226.42	4,146.77	-333.55	-338.08	14,457,370.72	1,720,680.67	39.80916133	-80.71418927	
4.302.00	21.61	232.32	4,235.34	-355.88	-364.15	14,457,348.39	1,720,654.59	39.80910024	-80.71428237	
4.396.00	23.99	234.13	4,321.99	-377.66	-393.34	14,457,326.61	1,720,625.40	39.80904068	-80.71438656	
4.491.00	27.00	227.74	4,407.75	-403.49	-424.97	14,457,300.78	1,720,593.78	39.80897002	-80.71449945	
4.585.00	27.62	228.71	4,491.27	-432.21	-457.13	14,457,272.06	1,720,561.62	39.80889141	-80.71461431	
4.680.00	27.62	227.83	4,575.45	-461.53	-490.00	14,457,242.74	1,720,528.75	39.80881119	-80.71473168	
4.775.00	27.09	224.83	4,659.83	-491.65	-521.57	14,457,212.62	1,720,497.18	39.80872874	-80.71484445	
4.869.00	26.12	226.11	4,743.87	-521.18	-551.57	14,457,183.09	1,720,467.17	39.80864791	-80.71495162	
4.964.00	24.88	228.80	4,829.62	-548.84	-581.68	14,457,155.43	1,720,437.06	39.80857221	-80.71505914	
5.058.00	25.01	231.62	4,914.85	-574.21	-612.14	14,457,130.06	1,720,406.61	39.80850282	-80.71516788	
5.153.00	26.60	231.84	5,000.38	-599.82	-644.61	14,457,104.45	1,720,374.14	39.80843277	-80.71528378	
5.248.00	28.02	229.02	5,084.79	-627.59	-678.18	14,457,076.68	1,720,340.57	39.80835678	-80.71540364	
5.343.00	26.91	224.44	5,169.09	-657.58	-710.08	14,457,046.69	1,720,308.67	39.80827471	-80.71551758	
5.438.00	27.00	218.62	5,253.79	-689.78	-738.60	14,457,014.49	1,720,280.15	39.80818652	-80.71561949	
5.532.00	27.80	214.43	5,337.25	-724.54	-764.31	14,456,979.73	1,720,254.43	39.80809130	-80.71571144	
5.627.00	25.41	214.04	5,422.18	-759.71	-788.25	14,456,944.56	1,720,230.50	39.80799493	-80.71579708	
5.722.00	22.49	215.62	5,508.99	-791.37	-810.25	14,456,912.90	1,720,208.50	39.80790815	-80.71587576	
5.817.00	20.99	218.53	5,597.24	-819.46	-831.43	14,456,884.81	1,720,187.32	39.80783122	-80.71595151	
5.911.00	21.39	223.03	5,684.89	-845.16	-853.62	14,456,859.11	1,720,165.13	39.80776082	-80.71603080	
6.006.00	23.29	223.60	5,772.75	-871.43	-878.39	14,456,832.84	1,720,140.36	39.80768890	-80.71611931	
6.101.00	27.00	218.71	5,858.75	-901.87	-904.84	14,456,802.40	1,720,113.91	39.80760553	-80.71621384	
6.194.00	29.70	217.12	5,940.59	-936.72	-931.95	14,456,767.55	1,720,086.79	39.80751006	-80.71631077	
6.289.00	31.02	215.01	6,022.56	-975.54	-960.20	14,456,728.73	1,720,058.55	39.80740370	-80.71641179	
6.384.00	29.78	211.22	6,104.50	-1,015.77	-986.48	14,456,688.50	1,720,032.27	39.80729345	-80.71650581	
6.478.00	27.71	207.91	6,186.92	-1,055.05	-1,008.81	14,456,649.22	1,720,009.94	39.80718577	-80.71658577	
6.573.00	26.51	209.72	6,271.48	-1,092.98	-1,029.66	14,456,611.29	1,719,989.09	39.80708177	-80.71666044	
6.668.00	26.60	212.14	6,356.46	-1,129.40	-1,051.49	14,456,574.87	1,719,967.26	39.80698194	-80.71673857	
6.762.00	26.20	214.52	6,440.66	-1,164.32	-1,074.44	14,456,539.95	1,719,944.30	39.80688624	-80.71682070	
6.857.00	25.90	220.82	6,526.03	-1,197.31	-1,099.90	14,456,506.96	1,719,918.85	39.80679587	-80.71691170	
6.951.00	23.20	223.73	6,611.53	-1,226.23	-1,126.12	14,456,478.04	1,719,892.63	39.80671667	-80.71700541	
7.050.00	25.50	226.82	6,701.72	-1,254.91	-1,155.14	14,456,449.36	1,719,863.60	39.80663817	-80.71710908	
7.144.00	28.02	231.53	6,785.65	-1,282.50	-1,187.20	14,456,421.77	1,719,831.55	39.80656268	-80.71722351	
7.239.00	28.99	231.00	6,869.13	-1,310.87	-1,222.56	14,456,393.40	1,719,796.19	39.80648507	-80.71734975	
7.334.00	29.92	227.43	6,951.86	-1,341.39	-1,257.90	14,456,362.88	1,719,760.85	39.80640157	-80.71747593	
7.429.00	30.09	221.00	7,034.15	-1,375.40	-1,290.98	14,456,328.87	1,719,727.77	39.80630846	-80.71759411	
7.523.00	28.02	217.21	7,116.32	-1,410.77	-1,319.80	14,456,293.50	1,719,698.95	39.80621155	-80.71769712	
7.618.00	26.51	214.92	7,200.77	-1,445.93	-1,345.43	14,456,258.34	1,719,673.32	39.80611522	-80.71778678	
7.713.00	24.79	212.71	7,286.41	-1,480.08	-1,368.33	14,456,224.19	1,719,650.41	39.80602165	-80.71787071	
7.808.00	22.71	212.63	7,373.36	-1,512.28	-1,388.99	14,456,191.99	1,719,629.76	39.80593338	-80.71794461	
7.902.00	22.80	212.63	7,460.04	-1,542.90	-1,408.59	14,456,161.37	1,719,610.16	39.80584946	-80.71801476	
7.997.00	22.89	213.20	7,547.59	-1,573.87	-1,428.63	14,456,130.40	1,719,590.11	39.80576460	-80.71808647	
8.092.00	23.29	215.62	7,634.98	-1,604.59	-1,449.69	14,456,099.68	1,719,569.06	39.80568040	-80.71816179	
8.186.00	24.61	213.64	7,720.88	-1,636.00	-1,471.36	14,456,068.27	1,719,547.39	39.80559435	-80.71823929	
8.281.00	28.41	216.24	7,805.88	-1,670.71	-1,495.68	14,456,033.56	1,719,523.06	39.80549924	-80.71832630	
8.375.00	28.81	217.83	7,888.41	-1,706.63	-1,522.80	14,455,997.64	1,719,495.95	39.80540081	-80.71842324	
8.469.00	29.12	217.34	7,970.65	-1,742.71	-1,550.56	14,455,961.56	1,719,468.19	39.80530198	-80.71852250	





<b>Company:</b>	Tug Hill Operating LLC	<b>Local Co-ordinate Reference:</b>	Well Heaven Hill 2W-13 HU (slot M)
<b>Project:</b>	Marshall County, West Virginia	<b>TVD Reference:</b>	RKB=1331+33 @ 1364.00usft (Nabors X08)
<b>Site:</b>	Heaven Hill 2	<b>MD Reference:</b>	RKB=1331+33 @ 1364.00usft (Nabors X08)
<b>Well:</b>	Heaven Hill 2W-13 HU (slot M)	<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_Aug0116_LT_v14

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
18,904.00	88.57	150.45	11,722.22	-8,808.62	658.44	14,448,895.65	1,721,677.19	39.78587784	-80.71073834	
18,999.00	88.57	150.45	11,724.59	-8,891.23	705.28	14,448,813.04	1,721,724.03	39.78565054	-80.71057256	
19,094.00	88.22	149.92	11,727.25	-8,973.63	752.49	14,448,730.64	1,721,771.24	39.78542385	-80.71040544	
19,125.00	88.57	149.74	11,728.12	-9,000.42	768.07	14,448,703.85	1,721,786.82	39.78535014	-80.71035032	
<b>Survey @ 19125.00 MD 11728.12 TVD</b>										
19,175.00	88.57	149.74	11,729.37	-9,043.59	793.26	14,448,660.68	1,721,812.00	39.78523135	-80.71026115	
<b>Survey Projected to 19175.00 MD 11729.37 TVD</b>										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
30.00	30.00	0.10	0.07	Gyro	
1,450.00	1,449.21	-17.60	4.15	MWD surveys	
19,125.00	11,728.12	-9,000.42	768.07	Survey @ 19125.00 MD 11728.12 TVD	
19,175.00	11,729.37	-9,043.59	793.26	Survey Projected to 19175.00 MD 11729.37 TVD	

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