

EQT PRODUCTION

Wetzel County, WV

Hallibu Pad (Bottom Hole)

Hallibu 3H L-028879 - Slot Hallibu 3H SHL

Main

Design: Hallibu 3H As Drilled

Survey Report - Geographic

19 November, 2025

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Environmental Protection



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Environmental Protection
Bureau of Oil and Gas

Survey Report - Geographic

Company:	EQT PRODUCTION	Local Co-ordinate Reference:	Well Hallibu 3H L-028879 - Slot Hallibu 3H SHL
Project:	Wetzel County, WV	TVD Reference:	KB@28 @ 1368.0usft
Site:	Hallibu Pad (Bottom Hole)	MD Reference:	KB@28 @ 1368.0usft
Well:	Hallibu 3H L-028879	North Reference:	Grid
Wellbore:	Main	Survey Calculation Method:	Minimum Curvature
Design:	Hallibu 3H As Drilled	Database:	EQT

Project	Wetzel County, WV		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	West Virginia North 4701		

Site	Hallibu Pad (Bottom Hole)		
Site Position:		Northing:	423,969.14 usft
From:	Map	Easting:	1,716,080.98 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	39° 39' 34.792 N
		Longitude:	80° 30' 30.501 W
		Grid Convergence:	-0.64 °

Well	Hallibu 3H L-028879 - Slot Hallibu 3H SHL		
Well Position	+N/-S	0.0 usft	Northing: 423,984.64 usft
	+E/-W	0.0 usft	Easting: 1,716,017.88 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	39° 39' 34.938 N
		Longitude:	80° 30' 31.310 W
		Ground Level:	1,340.0 usft

Wellbore	Main		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2025	11/13/2025	-8.67	66.12	51,414.60000000

Design	Hallibu 3H As Drilled		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
		Direction (°)	308.05

Survey Program	Date	11/19/2025		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
115.0	2,671.0	Gyrodata (Main)	GYD_CT+WIR+HA_DI	Gyrodata Continuous Tool including GyroCompass
2,706.0	7,158.0	SDI (Main)	SDI MWD 2018	SDI MWD - Standard ver 1.0.1
7,259.0	22,100.0	Survey #3 (Main)	MWD+IFR1+SAG+FDIR	(OWSG MWD + IFR1 + SAG + FDIR Correction

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	423,984.64	1,716,017.88	39° 39' 34.938 N	80° 30' 31.310 W
115.0	0.31	137.74	115.0	-0.2	0.2	423,984.41	1,716,018.09	39° 39' 34.936 N	80° 30' 31.307 W
215.0	0.32	149.11	215.0	-0.7	0.5	423,983.97	1,716,018.41	39° 39' 34.932 N	80° 30' 31.303 W
315.0	0.17	157.49	315.0	-1.0	0.7	423,983.59	1,716,018.61	39° 39' 34.928 N	80° 30' 31.301 W
415.0	0.11	165.46	415.0	-1.3	0.8	423,983.36	1,716,018.69	39° 39' 34.926 N	80° 30' 31.299 W
515.0	0.11	152.73	515.0	-1.5	0.9	423,983.18	1,716,018.76	39° 39' 34.924 N	80° 30' 31.299 W
615.0	0.09	164.89	615.0	-1.6	0.9	423,983.02	1,716,018.83	39° 39' 34.922 N	80° 30' 31.298 W
715.0	0.10	214.67	715.0	-1.8	0.9	423,982.87	1,716,018.80	39° 39' 34.921 N	80° 30' 31.298 W
815.0	0.07	230.02	815.0	-1.9	0.8	423,982.76	1,716,018.70	39° 39' 34.920 N	80° 30' 31.299 W
915.0	0.06	77.10	915.0	-1.9	0.8	423,982.74	1,716,018.70	39° 39' 34.919 N	80° 30' 31.299 W

09/04/2026

Survey Report - Geographic

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Well:	Hallibu 3H L-028879	North Reference:	Grid
Wellbore:	Main	Survey Calculation Method:	Minimum Curvature
Design:	Hallibu 3H As Drilled	Database:	EQT

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,015.0	0.05	101.33	1,015.0	-1.9	0.9	423,982.74	1,716,018.80	39° 39' 34.920 N	80° 30' 31.298 W
1,115.0	0.04	228.19	1,115.0	-1.9	0.9	423,982.71	1,716,018.81	39° 39' 34.919 N	80° 30' 31.298 W
1,215.0	0.03	328.72	1,215.0	-1.9	0.9	423,982.71	1,716,018.78	39° 39' 34.919 N	80° 30' 31.298 W
1,315.0	0.07	24.95	1,315.0	-1.9	0.9	423,982.78	1,716,018.79	39° 39' 34.920 N	80° 30' 31.298 W
1,415.0	0.05	98.39	1,415.0	-1.8	1.0	423,982.83	1,716,018.86	39° 39' 34.920 N	80° 30' 31.297 W
1,515.0	0.08	90.44	1,515.0	-1.8	1.1	423,982.83	1,716,018.97	39° 39' 34.920 N	80° 30' 31.296 W
1,615.0	0.08	79.48	1,615.0	-1.8	1.2	423,982.84	1,716,019.11	39° 39' 34.921 N	80° 30' 31.294 W
1,715.0	0.09	79.96	1,715.0	-1.8	1.4	423,982.87	1,716,019.25	39° 39' 34.921 N	80° 30' 31.292 W
1,815.0	0.11	80.09	1,815.0	-1.7	1.5	423,982.90	1,716,019.43	39° 39' 34.921 N	80° 30' 31.290 W
1,915.0	0.13	48.20	1,915.0	-1.7	1.7	423,982.99	1,716,019.60	39° 39' 34.922 N	80° 30' 31.288 W
2,015.0	0.11	36.25	2,015.0	-1.5	1.9	423,983.14	1,716,019.75	39° 39' 34.924 N	80° 30' 31.286 W
2,115.0	0.17	340.32	2,115.0	-1.3	1.9	423,983.36	1,716,019.75	39° 39' 34.926 N	80° 30' 31.286 W
2,215.0	0.20	356.09	2,215.0	-1.0	1.8	423,983.67	1,716,019.69	39° 39' 34.929 N	80° 30' 31.287 W
2,315.0	0.17	333.13	2,315.0	-0.7	1.7	423,983.98	1,716,019.61	39° 39' 34.932 N	80° 30' 31.288 W
2,415.0	0.17	348.55	2,415.0	-0.4	1.6	423,984.26	1,716,019.52	39° 39' 34.935 N	80° 30' 31.289 W
2,515.0	0.12	341.36	2,515.0	-0.1	1.6	423,984.50	1,716,019.45	39° 39' 34.937 N	80° 30' 31.290 W
2,615.0	0.14	11.41	2,615.0	0.1	1.6	423,984.72	1,716,019.44	39° 39' 34.939 N	80° 30' 31.290 W
2,671.0	0.13	293.79	2,671.0	0.2	1.5	423,984.81	1,716,019.40	39° 39' 34.940 N	80° 30' 31.291 W
2,706.0	0.23	290.00	2,706.0	0.2	1.4	423,984.85	1,716,019.30	39° 39' 34.940 N	80° 30' 31.292 W
2,749.0	0.27	257.31	2,749.0	0.2	1.2	423,984.86	1,716,019.12	39° 39' 34.940 N	80° 30' 31.294 W
KOP1 @ 2749' MD/ 2749' TVD									
2,792.0	0.81	209.17	2,792.0	-0.1	1.0	423,984.57	1,716,018.87	39° 39' 34.938 N	80° 30' 31.297 W
2,835.0	2.43	210.25	2,835.0	-1.1	0.4	423,983.52	1,716,018.26	39° 39' 34.927 N	80° 30' 31.305 W
2,878.0	3.83	206.64	2,877.9	-3.2	-0.7	423,981.45	1,716,017.16	39° 39' 34.907 N	80° 30' 31.319 W
2,921.0	5.11	200.09	2,920.8	-6.3	-2.0	423,978.37	1,716,015.86	39° 39' 34.876 N	80° 30' 31.335 W
2,964.0	6.33	189.87	2,963.6	-10.4	-3.1	423,974.23	1,716,014.79	39° 39' 34.835 N	80° 30' 31.348 W
3,006.0	7.54	186.53	3,005.3	-15.4	-3.8	423,969.21	1,716,014.08	39° 39' 34.785 N	80° 30' 31.356 W
3,049.0	8.82	189.24	3,047.8	-21.5	-4.6	423,963.16	1,716,013.23	39° 39' 34.725 N	80° 30' 31.366 W
3,091.0	9.51	194.82	3,089.3	-28.0	-6.0	423,956.62	1,716,011.83	39° 39' 34.661 N	80° 30' 31.383 W
3,133.0	9.89	201.87	3,130.7	-34.7	-8.3	423,949.92	1,716,009.60	39° 39' 34.594 N	80° 30' 31.411 W
3,175.0	10.49	207.96	3,172.0	-41.4	-11.4	423,943.20	1,716,006.46	39° 39' 34.527 N	80° 30' 31.450 W
3,218.0	11.53	211.28	3,214.2	-48.6	-15.5	423,936.07	1,716,002.39	39° 39' 34.456 N	80° 30' 31.501 W
3,260.0	12.82	212.71	3,255.3	-56.1	-20.2	423,928.56	1,715,997.70	39° 39' 34.382 N	80° 30' 31.560 W
3,302.0	14.09	209.94	3,296.1	-64.4	-25.3	423,920.21	1,715,992.63	39° 39' 34.299 N	80° 30' 31.624 W
3,344.0	15.58	205.84	3,336.7	-73.9	-30.3	423,910.70	1,715,987.62	39° 39' 34.204 N	80° 30' 31.686 W
3,386.0	16.91	204.31	3,377.1	-84.6	-35.2	423,900.06	1,715,982.64	39° 39' 34.098 N	80° 30' 31.748 W
3,429.0	18.46	202.87	3,418.0	-96.6	-40.5	423,888.08	1,715,977.42	39° 39' 33.979 N	80° 30' 31.813 W
3,471.0	19.72	202.69	3,457.7	-109.2	-45.8	423,875.42	1,715,972.10	39° 39' 33.854 N	80° 30' 31.880 W
3,514.0	20.99	202.87	3,498.0	-123.0	-51.6	423,861.63	1,715,966.31	39° 39' 33.717 N	80° 30' 31.952 W
3,556.0	22.11	202.32	3,537.1	-137.3	-57.5	423,847.38	1,715,960.39	39° 39' 33.575 N	80° 30' 32.025 W
3,600.0	23.32	200.94	3,577.7	-153.0	-63.7	423,831.59	1,715,954.13	39° 39' 33.419 N	80° 30' 32.103 W
3,643.0	24.06	198.92	3,617.0	-169.3	-69.6	423,815.35	1,715,948.25	39° 39' 33.257 N	80° 30' 32.176 W
3,730.0	25.63	196.09	3,696.0	-204.1	-80.6	423,780.49	1,715,937.28	39° 39' 32.912 N	80° 30' 32.311 W
3,816.0	25.54	194.00	3,773.6	-240.0	-90.2	423,744.63	1,715,927.64	39° 39' 32.556 N	80° 30' 32.429 W
3,902.0	25.06	194.40	3,851.3	-275.6	-99.3	423,709.00	1,715,918.62	39° 39' 32.203 N	80° 30' 32.540 W
3,987.0	24.49	198.30	3,928.5	-309.8	-109.3	423,674.83	1,715,908.61	39° 39' 31.864 N	80° 30' 32.663 W
4,072.0	24.14	199.67	4,006.0	-342.9	-120.6	423,641.74	1,715,897.23	39° 39' 31.536 N	80° 30' 32.803 W
4,159.0	23.81	197.93	4,085.5	-376.4	-132.0	423,608.28	1,715,885.84	39° 39' 31.204 N	80° 30' 32.944 W
4,245.0	23.99	198.59	4,164.1	-409.4	-143.0	423,575.19	1,715,874.92	39° 39' 30.876 N	80° 30' 33.079 W
4,330.0	24.40	199.85	4,241.6	-442.3	-154.4	423,542.30	1,715,863.45	39° 39' 30.549 N	80° 30' 33.221 W
4,414.0	24.24	200.45	4,318.2	-474.8	-166.3	423,509.82	1,715,851.53	39° 39' 30.227 N	80° 30' 33.369 W
4,500.0	24.11	201.89	4,396.6	-507.7	-179.1	423,476.98	1,715,838.82	39° 39' 29.901 N	80° 30' 33.527 W
4,584.0	24.06	202.45	4,473.3	-539.4	-192.0	423,445.24	1,715,825.88	39° 39' 29.586 N	80° 30' 33.687 W
4,668.0	23.65	202.45	4,550.1	-570.8	-205.0	423,413.84	1,715,812.91	39° 39' 29.274 N	80° 30' 33.849 W
4,753.0	23.37	200.15	4,628.1	-602.4	-217.3	423,382.26	1,715,800.59	39° 39' 28.961 N	80° 30' 34.002 W

Survey Report - Geographic

Company:	EQT PRODUCTION	Local Co-ordinate Reference:	Well Hallibu 3H L-028879 - Slot Hallibu 3H SHL
Project:	Wetzel County, WV	TVD Reference:	KB@28 @ 1368.0usft
Site:	Hallibu Pad (Bottom Hole)	MD Reference:	KB@28 @ 1368.0usft
Well:	Hallibu 3H L-028879	North Reference:	Grid
Wellbore:	Main	Survey Calculation Method:	Minimum Curvature
Design:	Hallibu 3H As Drilled	Database:	EQT

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,837.0	23.33	198.22	4,705.2	-633.8	-228.2	423,350.82	1,715,789.65	39° 39' 28.649 N	80° 30' 34.137 W
4,923.0	23.33	195.99	4,784.2	-666.4	-238.2	423,318.27	1,715,779.63	39° 39' 28.326 N	80° 30' 34.260 W
5,000.0	24.32	197.61	4,854.6	-696.1	-247.2	423,288.50	1,715,770.64	39° 39' 28.031 N	80° 30' 34.371 W
5,086.0	24.01	198.32	4,933.1	-729.6	-258.1	423,255.01	1,715,759.78	39° 39' 27.699 N	80° 30' 34.505 W
5,171.0	24.51	200.43	5,010.6	-762.6	-269.7	423,222.07	1,715,748.19	39° 39' 27.372 N	80° 30' 34.649 W
5,257.0	25.28	201.91	5,088.6	-796.3	-282.8	423,188.32	1,715,735.11	39° 39' 27.037 N	80° 30' 34.811 W
5,343.0	25.46	201.92	5,166.3	-830.5	-296.5	423,154.13	1,715,721.36	39° 39' 26.697 N	80° 30' 34.982 W
5,429.0	25.10	200.92	5,244.0	-864.7	-309.9	423,119.95	1,715,707.94	39° 39' 26.358 N	80° 30' 35.149 W
5,514.0	24.94	203.02	5,321.1	-898.0	-323.4	423,086.61	1,715,694.50	39° 39' 26.027 N	80° 30' 35.316 W
5,601.0	24.87	203.87	5,400.0	-931.6	-338.0	423,053.00	1,715,679.92	39° 39' 25.693 N	80° 30' 35.497 W
5,685.0	25.52	202.98	5,476.0	-964.5	-352.2	423,020.19	1,715,665.71	39° 39' 25.367 N	80° 30' 35.674 W
5,772.0	25.35	200.03	5,554.6	-999.2	-365.9	422,985.43	1,715,652.01	39° 39' 25.022 N	80° 30' 35.844 W
5,857.0	26.07	198.04	5,631.1	-1,034.1	-377.9	422,950.58	1,715,640.00	39° 39' 24.677 N	80° 30' 35.993 W
5,942.0	26.19	200.04	5,707.5	-1,069.4	-390.1	422,915.20	1,715,627.78	39° 39' 24.326 N	80° 30' 36.144 W
6,029.0	24.72	202.46	5,786.0	-1,104.3	-403.6	422,880.35	1,715,614.26	39° 39' 23.980 N	80° 30' 36.312 W
6,114.0	23.98	203.04	5,863.4	-1,136.6	-417.2	422,848.03	1,715,600.70	39° 39' 23.659 N	80° 30' 36.481 W
6,201.0	23.76	200.52	5,943.0	-1,169.3	-430.2	422,815.34	1,715,587.64	39° 39' 23.334 N	80° 30' 36.643 W
6,277.0	23.55	200.85	6,012.6	-1,197.8	-441.0	422,786.82	1,715,576.87	39° 39' 23.051 N	80° 30' 36.777 W
6,362.0	23.79	202.04	6,090.5	-1,229.6	-453.5	422,755.05	1,715,564.39	39° 39' 22.736 N	80° 30' 36.932 W
6,447.0	23.50	199.36	6,168.3	-1,261.5	-465.5	422,723.17	1,715,552.34	39° 39' 22.419 N	80° 30' 37.081 W
6,532.0	23.76	198.72	6,246.2	-1,293.7	-476.6	422,690.97	1,715,541.23	39° 39' 22.100 N	80° 30' 37.218 W
6,619.0	24.28	199.78	6,325.7	-1,327.1	-488.3	422,657.54	1,715,529.55	39° 39' 21.768 N	80° 30' 37.363 W
6,704.0	24.16	198.78	6,403.2	-1,360.0	-499.8	422,624.62	1,715,518.04	39° 39' 21.442 N	80° 30' 37.505 W
6,788.0	24.12	198.64	6,479.9	-1,392.6	-510.9	422,592.09	1,715,507.02	39° 39' 21.119 N	80° 30' 37.642 W
6,875.0	24.45	200.70	6,559.2	-1,426.2	-522.9	422,558.40	1,715,494.97	39° 39' 20.784 N	80° 30' 37.791 W
6,961.0	24.20	202.80	6,637.5	-1,459.1	-536.0	422,525.50	1,715,481.85	39° 39' 20.458 N	80° 30' 37.954 W
7,048.0	23.91	204.10	6,717.0	-1,491.7	-550.1	422,492.97	1,715,467.74	39° 39' 20.135 N	80° 30' 38.130 W
7,134.0	24.29	201.90	6,795.5	-1,524.0	-563.9	422,460.65	1,715,454.02	39° 39' 19.814 N	80° 30' 38.300 W
7,158.0	24.75	200.46	6,817.3	-1,533.3	-567.4	422,451.36	1,715,450.43	39° 39' 19.722 N	80° 30' 38.345 W
7,259.0	24.21	205.01	6,909.2	-1,571.9	-583.6	422,412.78	1,715,434.28	39° 39' 19.339 N	80° 30' 38.546 W
KOP2 @ 7259' MD/ 6909' TVD									
7,354.0	23.62	230.89	6,996.3	-1,601.6	-606.7	422,383.04	1,715,411.21	39° 39' 19.042 N	80° 30' 38.836 W
7,449.0	25.13	250.19	7,083.0	-1,620.5	-640.5	422,364.17	1,715,377.41	39° 39' 18.852 N	80° 30' 39.266 W
7,543.0	28.36	268.63	7,167.1	-1,627.8	-681.6	422,356.85	1,715,336.23	39° 39' 18.775 N	80° 30' 39.791 W
7,638.0	32.84	279.41	7,248.9	-1,624.1	-729.7	422,360.53	1,715,288.20	39° 39' 18.806 N	80° 30' 40.406 W
7,733.0	41.57	286.57	7,324.5	-1,610.9	-785.4	422,373.76	1,715,232.45	39° 39' 18.930 N	80° 30' 41.121 W
7,828.0	49.26	296.41	7,391.2	-1,585.8	-848.0	422,398.83	1,715,169.83	39° 39' 19.171 N	80° 30' 41.925 W
7,922.0	56.42	302.07	7,448.0	-1,549.1	-913.2	422,435.52	1,715,104.64	39° 39' 19.527 N	80° 30' 42.764 W
8,015.0	63.48	303.74	7,494.5	-1,505.4	-980.8	422,479.26	1,715,037.12	39° 39' 19.951 N	80° 30' 43.633 W
8,109.0	72.82	309.36	7,529.5	-1,453.4	-1,050.6	422,531.25	1,714,967.23	39° 39' 20.457 N	80° 30' 44.534 W
8,185.6	77.68	310.06	7,549.0	-1,406.1	-1,107.6	422,578.57	1,714,910.27	39° 39' 20.919 N	80° 30' 45.269 W
Top of Marcellus @ 8186' MD/ 7549' TVD									
8,204.0	78.85	310.23	7,552.7	-1,394.5	-1,121.4	422,590.18	1,714,896.50	39° 39' 21.032 N	80° 30' 45.447 W
8,299.0	86.53	313.13	7,564.8	-1,331.8	-1,191.7	422,652.80	1,714,826.20	39° 39' 21.643 N	80° 30' 46.355 W
8,394.0	90.06	312.44	7,567.7	-1,267.3	-1,261.4	422,717.29	1,714,756.52	39° 39' 22.273 N	80° 30' 47.255 W
LP @ 90° 8394' MD/ 7568' TVD									
8,489.0	90.80	314.09	7,566.9	-1,202.2	-1,330.5	422,782.40	1,714,687.34	39° 39' 22.908 N	80° 30' 48.149 W
8,584.0	90.80	312.50	7,565.6	-1,137.1	-1,399.7	422,847.53	1,714,618.21	39° 39' 23.544 N	80° 30' 49.042 W
8,679.0	89.86	305.99	7,565.1	-1,077.0	-1,473.2	422,907.60	1,714,544.68	39° 39' 24.130 N	80° 30' 49.991 W
8,773.0	90.40	305.43	7,564.9	-1,022.2	-1,549.5	422,962.47	1,714,468.35	39° 39' 24.664 N	80° 30' 50.975 W
8,867.0	89.93	303.17	7,564.6	-969.2	-1,627.2	423,015.43	1,714,390.70	39° 39' 25.178 N	80° 30' 51.975 W
8,962.0	89.89	299.56	7,564.7	-919.8	-1,708.3	423,064.87	1,714,309.60	39° 39' 25.658 N	80° 30' 53.019 W
9,057.0	89.55	290.72	7,565.2	-879.4	-1,794.2	423,105.19	1,714,223.68	39° 39' 26.047 N	80° 30' 54.124 W

Survey Report - Geographic

Company:	EQT PRODUCTION	Local Co-ordinate Reference:	Well Hallibu 3H L-028879 - Slot Hallibu 3H SHL
Project:	Wetzel County, WV	TVD Reference:	KB@28 @ 1368.0usft
Site:	Hallibu Pad (Bottom Hole)	MD Reference:	KB@28 @ 1368.0usft
Well:	Hallibu 3H L-028879	North Reference:	Grid
Wellbore:	Main	Survey Calculation Method:	Minimum Curvature
Design:	Hallibu 3H As Drilled	Database:	EQT

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,153.0	90.36	292.44	7,565.3	-844.1	-1,883.5	423,140.50	1,714,134.42	39° 39' 26.386 N	80° 30' 55.270 W
Deepest Point in Wellbore @ 9153' MD/ 7565.3' TVD									
9,247.0	90.36	291.51	7,564.7	-809.0	-1,970.6	423,175.67	1,714,047.25	39° 39' 26.724 N	80° 30' 56.390 W
9,343.0	90.56	293.81	7,563.9	-772.0	-2,059.2	423,212.65	1,713,958.67	39° 39' 27.079 N	80° 30' 57.528 W
9,438.0	90.36	295.99	7,563.1	-732.0	-2,145.4	423,252.65	1,713,872.51	39° 39' 27.465 N	80° 30' 58.635 W
9,533.0	90.22	303.15	7,562.7	-685.1	-2,227.9	423,299.50	1,713,789.94	39° 39' 27.919 N	80° 30' 59.697 W
9,628.0	90.86	310.52	7,561.8	-628.2	-2,303.9	423,356.41	1,713,713.96	39° 39' 28.473 N	80° 31' 0.677 W
9,723.0	90.69	311.35	7,560.5	-566.0	-2,375.7	423,418.65	1,713,642.20	39° 39' 29.080 N	80° 31' 1.604 W
9,818.0	90.16	310.83	7,559.8	-503.6	-2,447.3	423,481.08	1,713,570.60	39° 39' 29.689 N	80° 31' 2.528 W
9,912.0	89.99	310.29	7,559.7	-442.4	-2,518.7	423,542.21	1,713,499.19	39° 39' 30.285 N	80° 31' 3.450 W
10,006.0	90.22	310.80	7,559.5	-381.3	-2,590.1	423,603.31	1,713,427.76	39° 39' 30.881 N	80° 31' 4.372 W
10,101.0	90.59	313.03	7,558.8	-317.9	-2,660.8	423,666.77	1,713,357.07	39° 39' 31.500 N	80° 31' 5.285 W
10,195.0	90.29	317.47	7,558.1	-251.1	-2,727.0	423,733.51	1,713,290.91	39° 39' 32.152 N	80° 31' 6.141 W
10,290.0	90.86	317.53	7,557.1	-181.1	-2,791.1	423,803.54	1,713,226.73	39° 39' 32.837 N	80° 31' 6.971 W
10,384.0	90.79	318.66	7,555.8	-111.1	-2,853.9	423,873.49	1,713,163.96	39° 39' 33.521 N	80° 31' 7.784 W
10,480.0	90.66	317.93	7,554.6	-39.5	-2,917.8	423,945.16	1,713,100.10	39° 39' 34.223 N	80° 31' 8.611 W
10,574.0	90.49	318.58	7,553.6	30.7	-2,980.4	424,015.29	1,713,037.51	39° 39' 34.909 N	80° 31' 9.422 W
10,668.0	91.06	315.30	7,552.4	99.3	-3,044.5	424,083.95	1,712,973.35	39° 39' 35.580 N	80° 31' 10.252 W
10,763.0	91.26	318.22	7,550.4	168.5	-3,109.6	424,153.14	1,712,908.29	39° 39' 36.257 N	80° 31' 11.094 W
10,857.0	90.39	316.09	7,549.1	237.4	-3,173.5	424,222.05	1,712,844.38	39° 39' 36.930 N	80° 31' 11.921 W
10,952.0	90.56	317.09	7,548.3	306.4	-3,238.8	424,291.06	1,712,779.09	39° 39' 37.605 N	80° 31' 12.766 W
11,047.0	89.92	315.55	7,547.9	375.1	-3,304.4	424,359.76	1,712,713.49	39° 39' 38.277 N	80° 31' 13.615 W
11,141.0	90.06	317.59	7,547.9	443.4	-3,369.0	424,428.02	1,712,648.87	39° 39' 38.944 N	80° 31' 14.451 W
11,236.0	90.52	316.73	7,547.4	513.0	-3,433.6	424,497.68	1,712,584.27	39° 39' 39.625 N	80° 31' 15.287 W
11,332.0	90.56	317.18	7,546.5	583.2	-3,499.1	424,567.83	1,712,518.75	39° 39' 40.311 N	80° 31' 16.135 W
11,426.0	90.02	316.89	7,546.0	652.0	-3,563.2	424,636.62	1,712,454.69	39° 39' 40.984 N	80° 31' 16.964 W
11,521.0	89.55	314.86	7,546.4	720.2	-3,629.3	424,704.81	1,712,388.55	39° 39' 41.650 N	80° 31' 17.819 W
11,616.0	90.62	317.31	7,546.3	788.6	-3,695.2	424,773.24	1,712,322.66	39° 39' 42.319 N	80° 31' 18.672 W
11,711.0	89.75	318.00	7,546.0	858.8	-3,759.2	424,843.45	1,712,258.67	39° 39' 43.006 N	80° 31' 19.500 W
11,805.0	90.36	318.75	7,545.9	929.1	-3,821.6	424,913.71	1,712,196.23	39° 39' 43.693 N	80° 31' 20.309 W
11,899.0	89.32	317.06	7,546.1	998.8	-3,884.7	424,983.46	1,712,133.22	39° 39' 44.376 N	80° 31' 21.125 W
11,993.0	90.42	317.94	7,546.3	1,068.1	-3,948.2	425,052.76	1,712,069.72	39° 39' 45.053 N	80° 31' 21.947 W
12,088.0	91.03	318.73	7,545.1	1,139.1	-4,011.3	425,123.73	1,712,006.57	39° 39' 45.748 N	80° 31' 22.764 W
12,183.0	89.25	317.52	7,544.9	1,209.8	-4,074.7	425,194.46	1,711,943.16	39° 39' 46.439 N	80° 31' 23.586 W
12,278.0	89.21	317.80	7,546.2	1,280.0	-4,138.7	425,264.67	1,711,879.18	39° 39' 47.126 N	80° 31' 24.414 W
12,373.0	88.81	317.88	7,547.8	1,350.4	-4,202.4	425,335.08	1,711,815.43	39° 39' 47.815 N	80° 31' 25.239 W
12,468.0	89.58	318.00	7,549.2	1,421.0	-4,266.1	425,405.61	1,711,751.79	39° 39' 48.505 N	80° 31' 26.063 W
12,562.0	89.78	318.60	7,549.7	1,491.2	-4,328.6	425,475.79	1,711,689.26	39° 39' 49.191 N	80° 31' 26.873 W
12,657.0	90.49	317.89	7,549.5	1,562.0	-4,391.9	425,546.66	1,711,626.00	39° 39' 49.885 N	80° 31' 27.692 W
12,751.0	89.98	319.61	7,549.1	1,632.7	-4,453.9	425,617.33	1,711,564.03	39° 39' 50.576 N	80° 31' 28.495 W
12,845.0	90.35	315.98	7,548.8	1,702.3	-4,517.0	425,686.95	1,711,500.89	39° 39' 51.257 N	80° 31' 29.313 W
12,939.0	90.02	317.75	7,548.5	1,770.9	-4,581.3	425,755.54	1,711,436.62	39° 39' 51.928 N	80° 31' 30.144 W
13,033.0	90.05	321.16	7,548.4	1,842.3	-4,642.4	425,826.96	1,711,375.53	39° 39' 52.627 N	80° 31' 30.936 W
13,128.0	90.25	320.98	7,548.2	1,916.2	-4,702.0	425,900.86	1,711,315.83	39° 39' 53.350 N	80° 31' 31.710 W
13,222.0	89.88	321.05	7,548.1	1,989.3	-4,761.2	425,973.93	1,711,256.69	39° 39' 54.066 N	80° 31' 32.477 W
13,317.0	89.65	320.67	7,548.5	2,063.0	-4,821.1	426,047.61	1,711,196.73	39° 39' 54.787 N	80° 31' 33.255 W
13,411.0	90.19	322.64	7,548.6	2,136.7	-4,879.5	426,121.33	1,711,138.42	39° 39' 55.509 N	80° 31' 34.011 W
13,506.0	89.78	323.40	7,548.6	2,212.6	-4,936.6	426,197.22	1,711,081.27	39° 39' 56.253 N	80° 31' 34.753 W
13,600.0	89.72	322.96	7,549.0	2,287.8	-4,992.9	426,272.47	1,711,024.94	39° 39' 56.990 N	80° 31' 35.484 W
13,695.0	89.05	322.53	7,550.1	2,363.4	-5,050.4	426,348.08	1,710,967.43	39° 39' 57.731 N	80° 31' 36.230 W
13,789.0	88.84	325.14	7,551.8	2,439.3	-5,105.9	426,423.95	1,710,911.97	39° 39' 58.474 N	80° 31' 36.951 W
13,884.0	89.42	323.29	7,553.2	2,516.4	-5,161.4	426,501.00	1,710,856.43	39° 39' 59.229 N	80° 31' 37.672 W
13,978.0	89.92	325.89	7,553.8	2,593.0	-5,215.9	426,577.60	1,710,801.97	39° 39' 59.980 N	80° 31' 38.380 W
14,072.0	89.31	323.58	7,554.4	2,669.7	-5,270.2	426,654.35	1,710,747.71	39° 40' 0.733 N	80° 31' 39.085 W
14,166.0	90.12	323.11	7,554.9	2,745.1	-5,326.3	426,729.76	1,710,691.59	39° 40' 1.472 N	80° 31' 39.814 W

Survey Report - Geographic

Company:	EQT PRODUCTION	Local Co-ordinate Reference:	Well Hallibu 3H L-028879 - Slot Hallibu 3H SHL
Project:	Wetzel County, WV	TVD Reference:	KB@28 @ 1368.0usft
Site:	Hallibu Pad (Bottom Hole)	MD Reference:	KB@28 @ 1368.0usft
Well:	Hallibu 3H L-028879	North Reference:	Grid
Wellbore:	Main	Survey Calculation Method:	Minimum Curvature
Design:	Hallibu 3H As Drilled	Database:	EQT

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
14,262.0	89.38	322.50	7,555.3	2,821.6	-5,384.3	426,806.23	1,710,633.56	39° 40' 2.221 N	80° 31' 40.567 W
14,356.0	89.88	323.95	7,555.9	2,896.9	-5,440.6	426,881.52	1,710,577.28	39° 40' 2.959 N	80° 31' 41.297 W
14,451.0	90.15	321.11	7,555.9	2,972.3	-5,498.4	426,956.91	1,710,519.50	39° 40' 3.697 N	80° 31' 42.047 W
14,546.0	90.12	320.41	7,555.7	3,045.8	-5,558.5	427,030.48	1,710,459.40	39° 40' 4.417 N	80° 31' 42.827 W
14,641.0	89.48	320.36	7,556.0	3,119.0	-5,619.0	427,103.67	1,710,398.83	39° 40' 5.134 N	80° 31' 43.612 W
14,735.0	91.69	325.60	7,555.0	3,194.0	-5,675.6	427,178.68	1,710,342.26	39° 40' 5.869 N	80° 31' 44.346 W
14,830.0	90.76	325.94	7,553.0	3,272.6	-5,729.0	427,257.21	1,710,288.83	39° 40' 6.639 N	80° 31' 45.041 W
14,924.0	90.35	325.65	7,552.1	3,350.3	-5,781.9	427,334.94	1,710,235.99	39° 40' 7.401 N	80° 31' 45.728 W
15,019.0	90.08	325.71	7,551.7	3,428.8	-5,835.4	427,413.41	1,710,182.43	39° 40' 8.171 N	80° 31' 46.425 W
15,113.0	90.42	326.28	7,551.3	3,506.7	-5,888.0	427,491.33	1,710,129.86	39° 40' 8.935 N	80° 31' 47.108 W
15,209.0	90.35	326.20	7,550.7	3,586.5	-5,941.4	427,571.14	1,710,076.51	39° 40' 9.717 N	80° 31' 47.802 W
15,303.0	89.78	323.96	7,550.6	3,663.6	-5,995.2	427,648.21	1,710,022.71	39° 40' 10.473 N	80° 31' 48.501 W
15,398.0	89.65	324.66	7,551.0	3,740.7	-6,050.6	427,725.37	1,709,967.29	39° 40' 11.229 N	80° 31' 49.221 W
15,493.0	90.32	324.57	7,551.1	3,818.2	-6,105.6	427,802.82	1,709,912.27	39° 40' 11.989 N	80° 31' 49.936 W
15,589.0	89.04	322.63	7,551.6	3,895.4	-6,162.6	427,880.08	1,709,855.31	39° 40' 12.746 N	80° 31' 50.676 W
15,684.0	89.58	321.11	7,552.7	3,970.2	-6,221.2	427,954.80	1,709,796.66	39° 40' 13.477 N	80° 31' 51.437 W
15,778.0	89.35	319.83	7,553.6	4,042.7	-6,281.0	428,027.30	1,709,736.83	39° 40' 14.187 N	80° 31' 52.213 W
15,873.0	89.48	318.51	7,554.6	4,114.5	-6,343.2	428,099.17	1,709,674.73	39° 40' 14.890 N	80° 31' 53.018 W
15,967.0	90.35	319.41	7,554.7	4,185.4	-6,404.9	428,170.07	1,709,613.01	39° 40' 15.584 N	80° 31' 53.817 W
16,062.0	89.55	317.21	7,554.8	4,256.4	-6,468.0	428,241.01	1,709,549.83	39° 40' 16.278 N	80° 31' 54.636 W
16,156.0	91.19	322.51	7,554.2	4,328.2	-6,528.6	428,312.84	1,709,489.26	39° 40' 16.981 N	80° 31' 55.421 W
16,251.0	89.04	316.27	7,554.0	4,400.3	-6,590.4	428,384.92	1,709,427.45	39° 40' 17.686 N	80° 31' 56.222 W
16,345.0	89.98	314.04	7,554.8	4,466.9	-6,656.7	428,451.56	1,709,361.17	39° 40' 18.337 N	80° 31' 57.079 W
16,439.0	90.22	315.92	7,554.7	4,533.4	-6,723.2	428,518.00	1,709,294.68	39° 40' 18.987 N	80° 31' 57.939 W
16,534.0	90.82	314.02	7,553.8	4,600.5	-6,790.4	428,585.13	1,709,227.48	39° 40' 19.642 N	80° 31' 58.808 W
16,629.0	91.02	313.08	7,552.3	4,665.9	-6,859.2	428,650.58	1,709,158.64	39° 40' 20.281 N	80° 31' 59.698 W
16,723.0	90.15	313.59	7,551.3	4,730.4	-6,927.6	428,715.08	1,709,090.27	39° 40' 20.911 N	80° 32' 0.582 W
16,818.0	89.71	312.95	7,551.4	4,795.6	-6,996.8	428,780.20	1,709,021.10	39° 40' 21.547 N	80° 32' 1.476 W
16,913.0	90.35	314.68	7,551.4	4,861.3	-7,065.3	428,845.97	1,708,952.55	39° 40' 22.189 N	80° 32' 2.363 W
17,007.0	90.22	314.52	7,550.9	4,927.3	-7,132.3	428,911.97	1,708,885.62	39° 40' 22.834 N	80° 32' 3.228 W
17,102.0	91.02	318.19	7,549.9	4,996.1	-7,197.8	428,980.70	1,708,820.07	39° 40' 23.505 N	80° 32' 4.077 W
17,196.0	89.81	315.08	7,549.2	5,064.4	-7,262.3	429,049.02	1,708,755.53	39° 40' 24.173 N	80° 32' 4.912 W
17,291.0	90.39	314.31	7,549.0	5,131.2	-7,329.9	429,115.84	1,708,688.00	39° 40' 24.826 N	80° 32' 5.786 W
17,386.0	90.72	314.00	7,548.1	5,197.4	-7,398.0	429,182.01	1,708,619.85	39° 40' 25.472 N	80° 32' 6.667 W
17,480.0	90.82	311.38	7,546.9	5,261.1	-7,467.1	429,245.74	1,708,550.77	39° 40' 26.094 N	80° 32' 7.560 W
17,575.0	89.98	312.12	7,546.2	5,324.4	-7,538.0	429,308.99	1,708,479.90	39° 40' 26.711 N	80° 32' 8.475 W
17,669.0	91.09	312.39	7,545.3	5,387.6	-7,607.6	429,372.20	1,708,410.32	39° 40' 27.328 N	80° 32' 9.375 W
17,764.0	90.45	312.54	7,544.0	5,451.7	-7,677.6	429,436.33	1,708,340.25	39° 40' 27.954 N	80° 32' 10.280 W
17,859.0	90.45	313.19	7,543.3	5,516.3	-7,747.3	429,500.95	1,708,270.62	39° 40' 28.585 N	80° 32' 11.180 W
17,954.0	90.12	312.73	7,542.8	5,581.1	-7,816.8	429,565.69	1,708,201.10	39° 40' 29.216 N	80° 32' 12.079 W
18,050.0	90.69	314.26	7,542.1	5,647.1	-7,886.4	429,631.77	1,708,131.46	39° 40' 29.862 N	80° 32' 12.979 W
18,145.0	90.79	314.10	7,540.9	5,713.3	-7,954.5	429,697.97	1,708,063.34	39° 40' 30.508 N	80° 32' 13.860 W
18,240.0	89.95	314.34	7,540.3	5,779.6	-8,022.6	429,764.22	1,707,995.26	39° 40' 31.155 N	80° 32' 14.741 W
18,335.0	90.32	314.27	7,540.1	5,845.9	-8,090.6	429,830.57	1,707,927.27	39° 40' 31.803 N	80° 32' 15.620 W
18,429.0	89.98	314.42	7,539.8	5,911.6	-8,157.8	429,896.28	1,707,860.05	39° 40' 32.445 N	80° 32' 16.489 W
18,524.0	89.88	313.38	7,539.9	5,977.5	-8,226.3	429,962.15	1,707,791.60	39° 40' 33.088 N	80° 32' 17.374 W
18,619.0	89.98	314.04	7,540.1	6,043.2	-8,294.9	430,027.80	1,707,722.93	39° 40' 33.729 N	80° 32' 18.262 W
18,713.0	89.88	314.45	7,540.2	6,108.7	-8,362.3	430,093.38	1,707,655.59	39° 40' 34.369 N	80° 32' 19.133 W
18,808.0	89.28	312.65	7,540.9	6,174.2	-8,431.1	430,158.83	1,707,586.74	39° 40' 35.008 N	80° 32' 20.023 W
18,903.0	89.31	314.04	7,542.0	6,239.4	-8,500.2	430,224.03	1,707,517.66	39° 40' 35.645 N	80° 32' 20.917 W
18,997.0	90.38	314.18	7,542.3	6,304.8	-8,567.7	430,289.46	1,707,450.17	39° 40' 36.284 N	80° 32' 21.789 W
19,092.0	89.75	315.10	7,542.2	6,371.6	-8,635.3	430,356.21	1,707,382.57	39° 40' 36.936 N	80° 32' 22.664 W
19,186.0	90.28	314.22	7,542.2	6,437.6	-8,702.2	430,422.28	1,707,315.71	39° 40' 37.581 N	80° 32' 23.529 W
19,281.0	90.18	314.32	7,541.8	6,504.0	-8,770.2	430,488.59	1,707,247.69	39° 40' 38.229 N	80° 32' 24.408 W
19,376.0	89.38	313.73	7,542.1	6,570.0	-8,838.5	430,554.61	1,707,179.38	39° 40' 38.873 N	80° 32' 25.292 W

Survey Report - Geographic

Company:	EQT PRODUCTION	Local Co-ordinate Reference:	Well Hallibu 3H L-028879 - Slot Hallibu 3H SHL
Project:	Wetzel County, WV	TVD Reference:	KB@28 @ 1368.0usft
Site:	Hallibu Pad (Bottom Hole)	MD Reference:	KB@28 @ 1368.0usft
Well:	Hallibu 3H L-028879	North Reference:	Grid
Wellbore:	Main	Survey Calculation Method:	Minimum Curvature
Design:	Hallibu 3H As Drilled	Database:	EQT

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
19,471.0	89.81	314.11	7,542.8	6,635.9	-8,906.9	430,620.51	1,707,110.96	39° 40' 39.517 N	80° 32' 26.177 W
19,566.0	89.81	314.01	7,543.1	6,701.9	-8,975.2	430,686.57	1,707,042.69	39° 40' 40.162 N	80° 32' 27.060 W
19,662.0	90.22	314.01	7,543.1	6,768.6	-9,044.2	430,753.27	1,706,973.64	39° 40' 40.813 N	80° 32' 27.952 W
19,757.0	89.88	313.97	7,543.0	6,834.6	-9,112.6	430,819.25	1,706,905.29	39° 40' 41.457 N	80° 32' 28.836 W
19,851.0	90.25	313.45	7,542.9	6,899.6	-9,180.5	430,884.21	1,706,837.35	39° 40' 42.091 N	80° 32' 29.715 W
19,947.0	90.32	313.24	7,542.4	6,965.5	-9,250.3	430,950.10	1,706,767.53	39° 40' 42.735 N	80° 32' 30.618 W
20,042.0	90.25	313.76	7,542.0	7,030.9	-9,319.3	431,015.49	1,706,698.62	39° 40' 43.373 N	80° 32' 31.509 W
20,137.0	89.68	313.33	7,542.0	7,096.3	-9,388.1	431,080.94	1,706,629.76	39° 40' 44.012 N	80° 32' 32.399 W
20,232.0	90.11	313.83	7,542.2	7,161.8	-9,456.9	431,146.43	1,706,560.95	39° 40' 44.651 N	80° 32' 33.289 W
20,327.0	89.88	313.57	7,542.2	7,227.4	-9,525.6	431,212.06	1,706,492.26	39° 40' 45.292 N	80° 32' 34.177 W
20,421.0	90.18	314.11	7,542.2	7,292.5	-9,593.4	431,277.17	1,706,424.46	39° 40' 45.928 N	80° 32' 35.054 W
20,516.0	90.41	314.15	7,541.7	7,358.7	-9,661.6	431,343.32	1,706,356.28	39° 40' 46.574 N	80° 32' 35.936 W
20,611.0	89.78	313.52	7,541.5	7,424.5	-9,730.1	431,409.11	1,706,287.75	39° 40' 47.216 N	80° 32' 36.822 W
20,706.0	89.31	314.89	7,542.3	7,490.7	-9,798.2	431,475.35	1,706,219.66	39° 40' 47.863 N	80° 32' 37.703 W
20,801.0	89.51	314.34	7,543.2	7,557.4	-9,865.8	431,542.06	1,706,152.03	39° 40' 48.514 N	80° 32' 38.578 W
20,896.0	90.08	315.48	7,543.6	7,624.5	-9,933.1	431,609.13	1,706,084.76	39° 40' 49.169 N	80° 32' 39.448 W
20,992.0	89.91	314.97	7,543.6	7,692.6	-10,000.7	431,677.28	1,706,017.14	39° 40' 49.835 N	80° 32' 40.323 W
21,087.0	89.44	313.24	7,544.1	7,758.8	-10,068.9	431,743.39	1,705,948.93	39° 40' 50.481 N	80° 32' 41.205 W
21,181.0	89.58	312.74	7,544.9	7,822.8	-10,137.7	431,807.49	1,705,880.17	39° 40' 51.106 N	80° 32' 42.094 W
21,277.0	89.71	314.16	7,545.5	7,888.9	-10,207.4	431,873.51	1,705,810.48	39° 40' 51.751 N	80° 32' 42.995 W
21,372.0	89.31	315.40	7,546.3	7,955.8	-10,274.8	431,940.42	1,705,743.05	39° 40' 52.404 N	80° 32' 43.868 W
21,468.0	90.01	313.96	7,546.9	8,023.3	-10,343.1	432,007.92	1,705,674.80	39° 40' 53.064 N	80° 32' 44.751 W
21,563.0	89.51	312.56	7,547.3	8,088.4	-10,412.3	432,073.02	1,705,605.62	39° 40' 53.699 N	80° 32' 45.645 W
21,658.0	89.74	312.81	7,547.9	8,152.8	-10,482.1	432,137.42	1,705,535.78	39° 40' 54.327 N	80° 32' 46.548 W
21,753.0	89.31	313.22	7,548.7	8,217.6	-10,551.6	432,202.23	1,705,466.32	39° 40' 54.960 N	80° 32' 47.446 W
21,847.0	89.51	313.87	7,549.7	8,282.3	-10,619.7	432,266.98	1,705,398.19	39° 40' 55.592 N	80° 32' 48.327 W
21,943.0	89.47	313.85	7,550.5	8,348.9	-10,688.9	432,333.50	1,705,328.98	39° 40' 56.241 N	80° 32' 49.222 W
22,037.0	89.41	313.08	7,551.5	8,413.5	-10,757.1	432,398.16	1,705,260.76	39° 40' 56.873 N	80° 32' 50.104 W
22,078.0	89.58	312.85	7,551.8	8,441.5	-10,787.1	432,426.10	1,705,230.75	39° 40' 57.145 N	80° 32' 50.492 W
TD @ 22078' MD/ 7552' TVD									
22,100.0	89.58	312.85	7,552.0	8,456.4	-10,803.3	432,441.06	1,705,214.63	39° 40' 57.291 N	80° 32' 50.701 W

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,749.0	2,749.0	0.2	1.2	KOP1 @ 2749' MD/ 2749' TVD
7,259.0	6,909.2	-1,571.9	-583.6	KOP2 @ 7259' MD/ 6909' TVD
8,185.6	7,549.0	-1,406.1	-1,107.6	Top of Marcellus @ 8186' MD/ 7549' TVD
8,394.0	7,567.7	-1,267.3	-1,261.4	LP @ 90° 8394' MD/ 7568' TVD
9,153.0	7,565.3	-844.1	-1,883.5	Deepest Point in Wellbore @ 9153' MD/ 7565.3' TVD
22,078.0	7,551.8	8,441.5	-10,787.1	TD @ 22078' MD/ 7552' TVD

Checked By: _____ Approved By: _____ Date: _____



Hallibu Pad (Btm Hole)
Hallibu 3H L-028879
2T_Pat294_Hallibu 3H_SDI
KB@28 @ 1368.0usf
Wetzel County, WV

PROJECT DETAILS:
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: West Virginia North 4701
System Datum: Mean Sea Level

HALO
ROTARY STEERABLE SYSTEM



WELL DETAILS: Hallibu 3H L-028879

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.0	0.0	423984.64	1716017.88	39° 39' 34.938 N	80° 30' 31.310 W	Hallibu 3H SHL

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSecl	Target
7158.0	24.75	200.46	6817.3	-1533.3	-567.4	0.00	0.00	-498.3	
7239.0	24.75	200.46	6890.9	-1565.1	-579.3	0.00	0.00	-508.5	
7629.0	34.16	279.11	7241.6	-1626.4	-720.9	9.51	114.08	-434.8	
8332.4	90.00	315.02	7566.0	-1314.3	-1215.3	8.95	41.19	146.8	Hallibu 3H LP
8407.9	90.00	315.02	7566.0	-1260.9	-1268.6	0.00	0.00	221.7	Hallibu 3H AZI1
9126.0	90.00	293.37	7566.0	-859.7	-1859.1	3.02	-90.00	934.0	
9158.5	90.00	293.37	7566.0	-846.8	-1888.9	0.00	0.00	965.4	Hallibu 3H AZI2
9756.0	90.00	311.29	7566.0	-528.6	-2391.7	3.00	90.00	1557.5	
9973.7	90.00	311.29	7566.0	-384.9	-2555.3	0.00	0.00	1774.9	Hallibu 3H AZI3
10170.1	90.00	317.18	7566.0	-248.0	-2695.9	3.00	90.00	1970.0	
12861.9	90.00	317.18	7566.0	1726.5	-4525.5	0.00	0.00	4627.8	Hallibu 3H AZI4
13022.6	90.00	322.00	7566.0	1848.8	-4629.6	3.00	90.00	4785.1	
13076.2	90.00	322.00	7566.0	1891.1	-4662.6	0.00	0.00	4837.1	Hallibu 3H AZI5
13123.5	90.00	323.42	7566.0	1928.7	-4691.3	3.00	90.00	4882.9	
15770.2	90.00	323.42	7566.0	4054.1	-6268.5	0.00	0.00	7435.0	Hallibu 3H AZI6
16072.9	90.00	314.30	7566.0	4281.8	-6467.4	3.01	-90.00	7732.0	
16086.7	90.00	314.30	7566.0	4291.5	-6477.3	0.00	0.00	7745.7	Hallibu 3H AZI7
16099.5	90.00	313.92	7566.0	4300.4	-6486.5	3.00	-90.00	7758.5	
22091.6	90.00	313.92	7566.0	8456.5	-10803.0	0.00	0.00	13719.2	Hallibu 3H BHL

