

EQT PRODUCTION

Wetzel County, WV

Hallibu Pad (Bottom Hole)

Hallibu 4H L-003976 - Slot Hallibu 4H SHL

Main

Design: Hallibu 4H As Drilled

Survey Report - Geographic

21 October, 2025

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Office of Oil and Gas

APR 01 2026

WV Department of
Environmental Protection



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West Virginia Department of
Environmental Protection

Company:	EQT PRODUCTION	Local Co-ordinate Reference:	Well Hallibu 4H L-003976 - Slot Hallibu 4H SHL
Project:	Wetzel County, WV	TVD Reference:	KB@28 @ 1368.0usft
Site:	Hallibu Pad (Bottom Hole)	MD Reference:	KB@28 @ 1368.0usft
Well:	Hallibu 4H L-003976	North Reference:	Grid
Wellbore:	Main	Survey Calculation Method:	Minimum Curvature
Design:	Hallibu 4H 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 4H L-003976 - Slot Hallibu 4H SHL		
Well Position	+N/-S	0.0 usft	Northing: 423,983.20 usft
	+E/-W	0.0 usft	Easting: 1,716,047.84 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	39° 39' 34.927 N
		Longitude:	80° 30' 30.927 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	10/12/2025	-8.67	66.12	51,425.10000000

Design	Hallibu 4H As Drilled
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Audit Notes:	
Version:	1.0
Phase:	ACTUAL
Tie On Depth:	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	162.15

Survey Program		Date	10/21/2025	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
115.0	2,590.0	Gyrodata (Main)	GYD_CT+WIR+HA_DI	Gyrodata Continuous Tool including GyroCompass
2,716.0	7,824.0	SDI (Main)	SDI MWD 2018	SDI MWD - Standard ver 1.0.1
7,909.0	26,474.0	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	423,983.20	1,716,047.84	39° 39' 34.927 N	80° 30' 30.927 W
	115.0	0.49	35.71	115.0	0.4	0.3	423,983.60	1,716,048.13	39° 39' 34.931 N	80° 30' 30.923 W
	215.0	0.31	50.93	215.0	0.9	0.7	423,984.11	1,716,048.59	39° 39' 34.936 N	80° 30' 30.917 W
	315.0	0.20	69.34	315.0	1.1	1.1	423,984.35	1,716,048.96	39° 39' 34.939 N	80° 30' 30.913 W
	415.0	0.11	63.85	415.0	1.3	1.4	423,984.45	1,716,049.21	39° 39' 34.940 N	80° 30' 30.909 W
	515.0	0.12	48.90	515.0	1.4	1.5	423,984.56	1,716,049.38	39° 39' 34.941 N	80° 30' 30.907 W
	615.0	0.20	31.12	615.0	1.6	1.7	423,984.78	1,716,049.55	39° 39' 34.943 N	80° 30' 30.905 W
	715.0	0.11	46.22	715.0	1.8	1.9	423,985.00	1,716,049.71	39° 39' 34.945 N	80° 30' 30.903 W
	815.0	0.07	40.88	815.0	1.9	2.0	423,985.11	1,716,049.81	39° 39' 34.946 N	80° 30' 30.902 W
	915.0	0.08	353.02	915.0	2.0	2.0	423,985.22	1,716,049.85	39° 39' 34.948 N	80° 30' 30.901 W

09/04/2026

Survey Report - Geographic

Company:	EQT PRODUCTION	Local Co-ordinate Reference:	Well Hallibu 4H L-003976 - Slot Hallibu 4H SHL
Project:	Wetzel County, WV	TVD Reference:	KB@28 @ 1368.0usft
Site:	Hallibu Pad (Bottom Hole)	MD Reference:	KB@28 @ 1368.0usft
Well:	Hallibu 4H L-003976	North Reference:	Grid
Wellbore:	Main	Survey Calculation Method:	Minimum Curvature
Design:	Hallibu 4H 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	0.08	30.43	1,015.0	2.2	2.0	423,985.35	1,716,049.87	39° 39' 34.949 N	80° 30' 30.901 W
1,115.0	0.17	323.57	1,115.0	2.3	2.0	423,985.53	1,716,049.82	39° 39' 34.951 N	80° 30' 30.902 W
1,215.0	0.27	351.03	1,215.0	2.7	1.9	423,985.88	1,716,049.70	39° 39' 34.954 N	80° 30' 30.903 W
1,315.0	0.33	345.33	1,315.0	3.2	1.7	423,986.40	1,716,049.59	39° 39' 34.959 N	80° 30' 30.905 W
1,415.0	0.33	350.32	1,415.0	3.8	1.6	423,986.96	1,716,049.46	39° 39' 34.965 N	80° 30' 30.907 W
1,515.0	0.19	14.73	1,515.0	4.2	1.6	423,987.40	1,716,049.46	39° 39' 34.969 N	80° 30' 30.907 W
1,615.0	0.09	43.36	1,615.0	4.4	1.7	423,987.62	1,716,049.55	39° 39' 34.971 N	80° 30' 30.905 W
1,715.0	0.15	306.49	1,715.0	4.6	1.7	423,987.76	1,716,049.50	39° 39' 34.972 N	80° 30' 30.906 W
1,815.0	0.21	314.01	1,815.0	4.8	1.4	423,987.96	1,716,049.27	39° 39' 34.974 N	80° 30' 30.909 W
1,915.0	0.28	5.43	1,915.0	5.1	1.3	423,988.33	1,716,049.16	39° 39' 34.978 N	80° 30' 30.911 W
2,015.0	0.28	28.46	2,015.0	5.6	1.5	423,988.79	1,716,049.30	39° 39' 34.983 N	80° 30' 30.909 W
2,115.0	0.35	41.08	2,115.0	6.0	1.8	423,989.23	1,716,049.61	39° 39' 34.987 N	80° 30' 30.905 W
2,215.0	0.29	30.12	2,215.0	6.5	2.1	423,989.68	1,716,049.94	39° 39' 34.992 N	80° 30' 30.901 W
2,315.0	0.25	18.64	2,315.0	6.9	2.3	423,990.11	1,716,050.14	39° 39' 34.996 N	80° 30' 30.898 W
2,415.0	0.25	357.11	2,415.0	7.3	2.4	423,990.53	1,716,050.20	39° 39' 35.000 N	80° 30' 30.898 W
2,515.0	0.28	350.08	2,515.0	7.8	2.3	423,990.99	1,716,050.14	39° 39' 35.005 N	80° 30' 30.898 W
2,590.0	0.22	16.67	2,590.0	8.1	2.3	423,991.31	1,716,050.15	39° 39' 35.008 N	80° 30' 30.898 W
2,716.0	0.32	326.40	2,716.0	8.6	2.2	423,991.84	1,716,050.03	39° 39' 35.013 N	80° 30' 30.900 W
2,760.0	0.20	311.08	2,760.0	8.8	2.1	423,991.99	1,716,049.90	39° 39' 35.014 N	80° 30' 30.902 W
2,803.0	1.08	256.70	2,803.0	8.7	1.6	423,991.94	1,716,049.45	39° 39' 35.014 N	80° 30' 30.907 W
KOP1 2803' MD/ 2803' TVD									
2,846.0	2.53	253.66	2,846.0	8.4	0.3	423,991.58	1,716,048.15	39° 39' 35.010 N	80° 30' 30.924 W
2,890.0	3.08	255.34	2,889.9	7.8	-1.8	423,991.01	1,716,046.07	39° 39' 35.004 N	80° 30' 30.950 W
2,933.0	2.86	254.77	2,932.8	7.2	-3.9	423,990.44	1,716,043.92	39° 39' 34.998 N	80° 30' 30.978 W
2,975.0	3.37	245.43	2,974.8	6.5	-6.1	423,989.65	1,716,041.78	39° 39' 34.990 N	80° 30' 31.005 W
3,018.0	4.55	239.90	3,017.7	5.1	-8.7	423,988.27	1,716,039.16	39° 39' 34.976 N	80° 30' 31.038 W
3,060.0	5.43	244.79	3,059.5	3.4	-11.9	423,986.59	1,716,035.92	39° 39' 34.959 N	80° 30' 31.080 W
3,102.0	6.55	246.66	3,101.3	1.6	-15.9	423,984.79	1,716,031.92	39° 39' 34.941 N	80° 30' 31.131 W
3,144.0	7.48	248.86	3,143.0	-0.3	-20.7	423,982.86	1,716,027.17	39° 39' 34.922 N	80° 30' 31.191 W
3,186.0	7.81	247.41	3,184.6	-2.4	-25.9	423,980.77	1,716,021.99	39° 39' 34.900 N	80° 30' 31.257 W
3,228.0	8.31	247.47	3,226.2	-4.7	-31.3	423,978.51	1,716,016.55	39° 39' 34.878 N	80° 30' 31.326 W
3,272.0	9.43	244.05	3,269.7	-7.5	-37.5	423,975.72	1,716,010.37	39° 39' 34.849 N	80° 30' 31.405 W
3,315.0	9.94	240.73	3,312.0	-10.8	-43.9	423,972.36	1,716,003.97	39° 39' 34.815 N	80° 30' 31.486 W
3,358.0	10.77	240.36	3,354.3	-14.6	-50.6	423,968.56	1,715,997.24	39° 39' 34.777 N	80° 30' 31.572 W
3,401.0	11.37	242.47	3,396.5	-18.6	-57.9	423,964.61	1,715,989.99	39° 39' 34.737 N	80° 30' 31.664 W
3,445.0	12.29	242.58	3,439.6	-22.7	-65.9	423,960.45	1,715,981.98	39° 39' 34.695 N	80° 30' 31.766 W
3,488.0	13.36	242.99	3,481.5	-27.1	-74.3	423,956.09	1,715,973.50	39° 39' 34.651 N	80° 30' 31.873 W
3,520.0	14.02	243.27	3,512.6	-30.5	-81.1	423,952.67	1,715,966.74	39° 39' 34.617 N	80° 30' 31.959 W
3,551.0	14.67	244.20	3,542.7	-33.9	-88.0	423,949.27	1,715,959.85	39° 39' 34.582 N	80° 30' 32.047 W
3,583.0	15.24	244.48	3,573.6	-37.5	-95.4	423,945.69	1,715,952.41	39° 39' 34.546 N	80° 30' 32.142 W
3,614.0	16.04	243.85	3,603.4	-41.1	-103.0	423,942.05	1,715,944.89	39° 39' 34.509 N	80° 30' 32.237 W
3,645.0	16.43	243.12	3,633.2	-45.0	-110.7	423,938.18	1,715,937.13	39° 39' 34.470 N	80° 30' 32.336 W
3,677.0	16.98	241.77	3,663.8	-49.3	-118.9	423,933.93	1,715,928.98	39° 39' 34.427 N	80° 30' 32.439 W
3,708.0	17.49	241.01	3,693.4	-53.7	-126.9	423,929.53	1,715,920.92	39° 39' 34.383 N	80° 30' 32.542 W
3,739.0	18.24	241.82	3,723.0	-58.2	-135.3	423,924.98	1,715,912.56	39° 39' 34.337 N	80° 30' 32.648 W
3,771.0	18.83	241.69	3,753.3	-63.0	-144.2	423,920.16	1,715,903.60	39° 39' 34.288 N	80° 30' 32.762 W
3,802.0	19.69	241.37	3,782.6	-67.9	-153.2	423,915.29	1,715,894.61	39° 39' 34.239 N	80° 30' 32.876 W
3,836.0	20.06	243.35	3,814.5	-73.3	-163.5	423,909.93	1,715,884.38	39° 39' 34.185 N	80° 30' 33.006 W
3,865.0	20.53	244.53	3,841.7	-77.7	-172.5	423,905.51	1,715,875.34	39° 39' 34.140 N	80° 30' 33.121 W
3,897.0	21.02	246.79	3,871.7	-82.4	-182.8	423,900.84	1,715,865.00	39° 39' 34.093 N	80° 30' 33.253 W
3,928.0	21.63	247.47	3,900.5	-86.7	-193.2	423,896.46	1,715,854.61	39° 39' 34.049 N	80° 30' 33.385 W
3,960.0	22.47	247.51	3,930.2	-91.3	-204.3	423,891.86	1,715,843.51	39° 39' 34.002 N	80° 30' 33.526 W
3,991.0	23.67	247.80	3,958.7	-96.0	-215.6	423,887.24	1,715,832.28	39° 39' 33.955 N	80° 30' 33.669 W
4,022.0	24.74	247.48	3,987.0	-100.8	-227.3	423,882.40	1,715,820.52	39° 39' 33.906 N	80° 30' 33.819 W
4,052.0	25.65	246.13	4,014.1	-105.8	-239.1	423,877.37	1,715,808.79	39° 39' 33.855 N	80° 30' 33.968 W

Survey Report - Geographic

Company:	EQT PRODUCTION	Local Co-ordinate Reference:	Well Hallibu 4H L-003976 - Slot Hallibu 4H SHL
Project:	Wetzel County, WV	TVD Reference:	KB@28 @ 1368.0usft
Site:	Hallibu Pad (Bottom Hole)	MD Reference:	KB@28 @ 1368.0usft
Well:	Hallibu 4H L-003976	North Reference:	Grid
Wellbore:	Main	Survey Calculation Method:	Minimum Curvature
Design:	Hallibu 4H 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
4,084.0	26.31	244.94	4,042.9	-111.6	-251.8	423,871.56	1,715,796.03	39° 39' 33.796 N	80° 30' 34.130 W
4,115.0	26.63	242.42	4,070.6	-117.8	-264.2	423,865.44	1,715,783.65	39° 39' 33.734 N	80° 30' 34.288 W
4,147.0	26.65	238.85	4,099.3	-124.8	-276.7	423,858.40	1,715,771.15	39° 39' 33.663 N	80° 30' 34.447 W
4,178.0	27.38	237.28	4,126.9	-132.2	-288.6	423,850.95	1,715,759.20	39° 39' 33.588 N	80° 30' 34.598 W
4,210.0	27.99	236.51	4,155.2	-140.4	-301.1	423,842.83	1,715,746.75	39° 39' 33.507 N	80° 30' 34.756 W
4,241.0	28.64	237.74	4,182.5	-148.3	-313.4	423,834.85	1,715,734.40	39° 39' 33.426 N	80° 30' 34.913 W
4,273.0	29.42	238.51	4,210.5	-156.5	-326.6	423,826.66	1,715,721.21	39° 39' 33.344 N	80° 30' 35.081 W
4,304.0	30.21	240.75	4,237.4	-164.3	-339.9	423,818.87	1,715,707.91	39° 39' 33.265 N	80° 30' 35.249 W
4,336.0	31.18	242.16	4,264.9	-172.1	-354.3	423,811.06	1,715,693.56	39° 39' 33.187 N	80° 30' 35.432 W
4,367.0	31.94	243.80	4,291.3	-179.5	-368.7	423,803.70	1,715,679.11	39° 39' 33.112 N	80° 30' 35.616 W
4,430.0	32.29	245.70	4,344.7	-193.8	-399.0	423,789.41	1,715,648.82	39° 39' 32.968 N	80° 30' 36.001 W
4,493.0	32.62	244.26	4,397.8	-208.1	-429.7	423,775.11	1,715,618.19	39° 39' 32.823 N	80° 30' 36.390 W
4,566.0	32.95	240.75	4,459.2	-226.3	-464.7	423,756.87	1,715,583.14	39° 39' 32.639 N	80° 30' 36.836 W
4,651.0	33.48	238.08	4,530.3	-250.0	-504.8	423,733.17	1,715,543.07	39° 39' 32.400 N	80° 30' 37.345 W
4,737.0	33.66	237.28	4,602.0	-275.4	-545.0	423,707.75	1,715,502.88	39° 39' 32.144 N	80° 30' 37.855 W
4,822.0	33.07	237.11	4,673.0	-300.8	-584.3	423,682.42	1,715,463.59	39° 39' 31.890 N	80° 30' 38.354 W
4,909.0	32.23	238.28	4,746.2	-325.9	-623.9	423,657.34	1,715,423.92	39° 39' 31.637 N	80° 30' 38.857 W
4,985.0	31.19	239.69	4,810.9	-346.4	-658.1	423,636.75	1,715,389.69	39° 39' 31.430 N	80° 30' 39.292 W
5,071.0	31.82	242.84	4,884.2	-368.0	-697.5	423,615.16	1,715,350.29	39° 39' 31.212 N	80° 30' 39.793 W
5,156.0	34.29	245.41	4,955.4	-388.2	-739.3	423,594.96	1,715,308.58	39° 39' 31.008 N	80° 30' 40.323 W
5,243.0	35.71	246.18	5,026.7	-408.7	-784.8	423,574.51	1,715,263.06	39° 39' 30.801 N	80° 30' 40.902 W
5,328.0	36.74	243.79	5,095.3	-429.9	-830.3	423,553.26	1,715,217.55	39° 39' 30.586 N	80° 30' 41.481 W
5,413.0	36.15	242.95	5,163.7	-452.6	-875.4	423,530.63	1,715,172.42	39° 39' 30.357 N	80° 30' 42.055 W
5,497.0	35.12	243.86	5,231.9	-474.5	-919.2	423,508.72	1,715,128.66	39° 39' 30.136 N	80° 30' 42.611 W
5,581.0	35.51	242.93	5,300.5	-496.2	-962.6	423,486.97	1,715,085.24	39° 39' 29.916 N	80° 30' 43.163 W
5,668.0	35.30	240.00	5,371.4	-520.3	-1,006.9	423,462.90	1,715,040.97	39° 39' 29.673 N	80° 30' 43.726 W
5,754.0	34.23	237.01	5,442.0	-545.9	-1,048.7	423,437.30	1,714,999.16	39° 39' 29.416 N	80° 30' 44.257 W
5,841.0	34.31	233.76	5,513.9	-573.7	-1,089.0	423,409.48	1,714,958.86	39° 39' 29.136 N	80° 30' 44.768 W
5,926.0	33.93	231.19	5,584.3	-602.7	-1,126.8	423,380.45	1,714,921.05	39° 39' 28.845 N	80° 30' 45.247 W
6,010.0	33.74	229.37	5,654.1	-632.6	-1,162.8	423,350.57	1,714,885.08	39° 39' 28.546 N	80° 30' 45.703 W
6,095.0	32.98	227.06	5,725.1	-663.8	-1,197.6	423,319.43	1,714,850.22	39° 39' 28.234 N	80° 30' 46.144 W
6,182.0	31.90	222.62	5,798.5	-696.8	-1,230.5	423,286.38	1,714,817.32	39° 39' 27.904 N	80° 30' 46.560 W
6,268.0	32.52	216.70	5,871.3	-732.1	-1,259.7	423,251.12	1,714,788.11	39° 39' 27.552 N	80° 30' 46.928 W
6,353.0	33.02	213.65	5,942.8	-769.7	-1,286.2	423,213.52	1,714,761.62	39° 39' 27.177 N	80° 30' 47.261 W
6,437.0	33.10	210.00	6,013.2	-808.6	-1,310.4	423,174.60	1,714,737.47	39° 39' 26.790 N	80° 30' 47.565 W
6,525.0	33.71	204.97	6,086.7	-851.6	-1,332.7	423,131.64	1,714,715.14	39° 39' 26.363 N	80° 30' 47.844 W
6,610.0	33.79	201.62	6,157.3	-894.9	-1,351.4	423,088.28	1,714,696.47	39° 39' 25.932 N	80° 30' 48.076 W
6,695.0	33.68	199.82	6,228.0	-939.1	-1,368.1	423,044.14	1,714,679.77	39° 39' 25.494 N	80° 30' 48.283 W
6,780.0	32.54	199.52	6,299.2	-982.8	-1,383.7	423,000.42	1,714,664.14	39° 39' 25.060 N	80° 30' 48.477 W
6,864.0	32.23	202.94	6,370.2	-1,024.7	-1,400.0	422,958.49	1,714,647.86	39° 39' 24.644 N	80° 30' 48.679 W
6,951.0	34.38	208.24	6,442.9	-1,067.7	-1,420.7	422,915.47	1,714,627.19	39° 39' 24.217 N	80° 30' 48.937 W
7,038.0	36.20	209.03	6,513.9	-1,111.8	-1,444.7	422,871.37	1,714,603.10	39° 39' 23.778 N	80° 30' 49.239 W
7,115.0	35.89	206.64	6,576.2	-1,151.9	-1,465.9	422,831.31	1,714,581.94	39° 39' 23.380 N	80° 30' 49.504 W
7,199.0	35.11	209.39	6,644.6	-1,194.9	-1,488.8	422,788.25	1,714,559.04	39° 39' 22.952 N	80° 30' 49.790 W
7,284.0	36.47	209.92	6,713.5	-1,238.1	-1,513.4	422,745.05	1,714,534.45	39° 39' 22.522 N	80° 30' 50.098 W
7,369.0	37.34	209.65	6,781.5	-1,282.4	-1,538.7	422,700.76	1,714,509.09	39° 39' 22.082 N	80° 30' 50.416 W
7,456.0	36.59	209.69	6,851.0	-1,327.9	-1,564.6	422,655.30	1,714,483.20	39° 39' 21.629 N	80° 30' 50.741 W
7,539.0	36.38	210.36	6,917.7	-1,370.6	-1,589.3	422,612.57	1,714,458.50	39° 39' 21.204 N	80° 30' 51.050 W
7,625.0	35.55	208.64	6,987.3	-1,414.6	-1,614.2	422,568.62	1,714,433.63	39° 39' 20.767 N	80° 30' 51.362 W
7,710.0	35.98	207.13	7,056.3	-1,458.5	-1,637.4	422,524.71	1,714,410.40	39° 39' 20.331 N	80° 30' 51.653 W
7,794.0	35.80	206.56	7,124.4	-1,502.4	-1,659.7	422,480.77	1,714,388.16	39° 39' 19.894 N	80° 30' 51.931 W
7,824.0	34.98	205.20	7,148.8	-1,518.1	-1,667.3	422,465.14	1,714,380.57	39° 39' 19.739 N	80° 30' 52.025 W
7,909.0	33.62	197.40	7,219.1	-1,562.6	-1,684.7	422,420.62	1,714,363.15	39° 39' 19.297 N	80° 30' 52.242 W
KOP2 @ 7909' MD/ 7219.1' TVD									
8,004.0	41.64	194.71	7,294.2	-1,618.3	-1,700.6	422,364.90	1,714,347.25	39° 39' 18.744 N	80° 30' 52.437 W

Survey Report - Geographic

Company:	EQT PRODUCTION	Local Co-ordinate Reference:	Well Hallibu 4H L-003976 - Slot Hallibu 4H SHL
Project:	Wetzel County, WV	TVD Reference:	KB@28 @ 1368.0usft
Site:	Hallibu Pad (Bottom Hole)	MD Reference:	KB@28 @ 1368.0usft
Well:	Hallibu 4H L-003976	North Reference:	Grid
Wellbore:	Main	Survey Calculation Method:	Minimum Curvature
Design:	Hallibu 4H 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
8,099.0	49.26	187.60	7,360.9	-1,684.6	-1,713.4	422,298.56	1,714,334.45	39° 39' 18.087 N	80° 30' 52.591 W
8,193.0	54.97	180.56	7,418.6	-1,758.5	-1,718.5	422,224.66	1,714,329.35	39° 39' 17.356 N	80° 30' 52.645 W
8,289.0	62.18	174.63	7,468.7	-1,840.3	-1,714.9	422,142.93	1,714,332.95	39° 39' 16.549 N	80° 30' 52.588 W
8,384.0	68.43	170.24	7,508.4	-1,925.7	-1,703.5	422,057.45	1,714,344.38	39° 39' 15.705 N	80° 30' 52.429 W
8,479.0	75.94	163.62	7,537.4	-2,013.7	-1,682.9	421,969.49	1,714,364.92	39° 39' 14.838 N	80° 30' 52.154 W
8,493.5	77.06	162.86	7,540.8	-2,027.2	-1,678.9	421,955.99	1,714,368.98	39° 39' 14.705 N	80° 30' 52.100 W
Top of Marcellus @ 8493.5' MD/ 7540.8' TVD									
8,574.0	83.32	158.72	7,554.5	-2,102.0	-1,652.7	421,881.15	1,714,395.09	39° 39' 13.969 N	80° 30' 51.755 W
8,669.0	88.54	155.82	7,561.3	-2,189.4	-1,616.1	421,793.79	1,714,431.70	39° 39' 13.109 N	80° 30' 51.275 W
Land @ 88.5° 8669' MD/ 7561.3' TVD									
8,765.0	88.20	155.37	7,564.0	-2,276.8	-1,576.5	421,706.41	1,714,471.35	39° 39' 12.250 N	80° 30' 50.755 W
8,859.0	89.11	154.78	7,566.2	-2,362.0	-1,536.9	421,621.19	1,714,510.95	39° 39' 11.412 N	80° 30' 50.237 W
8,954.0	89.27	155.32	7,567.6	-2,448.1	-1,496.8	421,535.06	1,714,551.02	39° 39' 10.566 N	80° 30' 49.712 W
9,049.0	88.94	155.39	7,569.0	-2,534.5	-1,457.2	421,448.73	1,714,590.63	39° 39' 9.717 N	80° 30' 49.193 W
9,143.0	89.68	156.34	7,570.2	-2,620.2	-1,418.8	421,362.95	1,714,629.06	39° 39' 8.873 N	80° 30' 48.689 W
9,237.0	89.48	155.77	7,570.9	-2,706.2	-1,380.6	421,277.04	1,714,667.21	39° 39' 8.029 N	80° 30' 48.189 W
9,332.0	89.28	155.23	7,571.9	-2,792.6	-1,341.2	421,190.60	1,714,706.60	39° 39' 7.179 N	80° 30' 47.673 W
9,427.0	89.01	155.45	7,573.3	-2,878.9	-1,301.6	421,104.28	1,714,746.24	39° 39' 6.330 N	80° 30' 47.154 W
9,521.0	89.14	156.49	7,574.8	-2,964.8	-1,263.3	421,018.44	1,714,784.51	39° 39' 5.486 N	80° 30' 46.652 W
9,617.0	89.28	155.17	7,576.1	-3,052.3	-1,224.0	420,930.86	1,714,823.81	39° 39' 4.625 N	80° 30' 46.137 W
9,712.0	89.28	155.40	7,577.3	-3,138.6	-1,184.3	420,844.57	1,714,863.53	39° 39' 3.776 N	80° 30' 45.617 W
9,807.0	90.09	155.65	7,577.9	-3,225.1	-1,145.0	420,758.11	1,714,902.89	39° 39' 2.926 N	80° 30' 45.101 W
9,901.0	89.04	156.50	7,578.6	-3,311.0	-1,106.8	420,672.19	1,714,941.00	39° 39' 2.081 N	80° 30' 44.602 W
9,997.0	89.45	155.85	7,579.8	-3,398.8	-1,068.1	420,584.38	1,714,979.78	39° 39' 1.218 N	80° 30' 44.093 W
10,092.0	89.35	154.42	7,580.8	-3,485.0	-1,028.1	420,498.19	1,715,019.72	39° 39' 0.370 N	80° 30' 43.570 W
10,187.0	89.62	155.32	7,581.7	-3,571.0	-987.8	420,412.19	1,715,060.06	39° 38' 59.525 N	80° 30' 43.042 W
10,282.0	89.68	155.64	7,582.3	-3,657.4	-948.4	420,325.76	1,715,099.49	39° 38' 58.675 N	80° 30' 42.526 W
10,377.0	89.68	155.23	7,582.8	-3,743.8	-908.9	420,239.36	1,715,138.98	39° 38' 57.826 N	80° 30' 42.008 W
10,473.0	89.98	155.89	7,583.1	-3,831.2	-869.1	420,151.96	1,715,178.70	39° 38' 56.966 N	80° 30' 41.488 W
10,568.0	89.68	155.44	7,583.4	-3,917.8	-830.0	420,065.40	1,715,217.85	39° 38' 56.115 N	80° 30' 40.975 W
10,663.0	89.21	155.73	7,584.3	-4,004.3	-790.7	419,978.90	1,715,257.11	39° 38' 55.265 N	80° 30' 40.461 W
10,758.0	89.01	153.97	7,585.8	-4,090.3	-750.4	419,892.92	1,715,297.48	39° 38' 54.419 N	80° 30' 39.932 W
10,854.0	89.01	154.62	7,587.4	-4,176.8	-708.7	419,806.44	1,715,339.11	39° 38' 53.569 N	80° 30' 39.388 W
10,949.0	89.11	154.96	7,589.0	-4,262.7	-668.3	419,720.50	1,715,379.57	39° 38' 52.724 N	80° 30' 38.858 W
11,044.0	89.28	154.82	7,590.3	-4,348.7	-628.0	419,634.48	1,715,419.88	39° 38' 51.879 N	80° 30' 38.330 W
11,139.0	89.71	154.94	7,591.2	-4,434.7	-587.6	419,548.47	1,715,460.21	39° 38' 51.033 N	80° 30' 37.802 W
11,234.0	89.14	153.75	7,592.1	-4,520.4	-546.5	419,462.84	1,715,501.34	39° 38' 50.192 N	80° 30' 37.264 W
11,330.0	89.71	155.50	7,593.1	-4,607.1	-505.4	419,376.11	1,715,542.47	39° 38' 49.339 N	80° 30' 36.726 W
11,426.0	88.91	153.98	7,594.2	-4,693.9	-464.4	419,289.30	1,715,583.43	39° 38' 48.486 N	80° 30' 36.190 W
11,520.0	89.08	154.76	7,595.9	-4,778.6	-423.8	419,204.56	1,715,624.09	39° 38' 47.653 N	80° 30' 35.658 W
11,615.0	88.54	154.00	7,597.8	-4,864.3	-382.7	419,118.92	1,715,665.16	39° 38' 46.811 N	80° 30' 35.121 W
11,711.0	88.67	155.70	7,600.2	-4,951.1	-341.9	419,032.05	1,715,705.94	39° 38' 45.957 N	80° 30' 34.587 W
11,807.0	88.10	153.85	7,602.9	-5,037.9	-301.0	418,945.25	1,715,746.84	39° 38' 45.103 N	80° 30' 34.052 W
11,902.0	88.37	154.15	7,605.8	-5,123.3	-259.4	418,859.90	1,715,788.46	39° 38' 44.265 N	80° 30' 33.507 W
11,998.0	88.50	154.60	7,608.4	-5,209.8	-217.9	418,773.38	1,715,829.96	39° 38' 43.414 N	80° 30' 32.964 W
12,093.0	90.05	155.62	7,609.6	-5,296.0	-177.9	418,687.21	1,715,869.94	39° 38' 42.567 N	80° 30' 32.441 W
12,186.0	89.51	153.90	7,610.0	-5,380.1	-138.2	418,603.09	1,715,909.60	39° 38' 41.740 N	80° 30' 31.922 W
12,281.0	89.41	155.94	7,610.9	-5,466.1	-98.0	418,517.06	1,715,949.86	39° 38' 40.894 N	80° 30' 31.395 W
12,376.0	90.48	158.86	7,611.0	-5,553.8	-61.5	418,429.37	1,715,986.36	39° 38' 40.031 N	80° 30' 30.916 W
12,470.0	89.68	154.02	7,610.9	-5,640.0	-23.9	418,343.23	1,716,023.93	39° 38' 39.184 N	80° 30' 30.423 W
12,565.0	89.98	154.53	7,611.1	-5,725.6	17.3	418,257.64	1,716,065.16	39° 38' 38.343 N	80° 30' 29.884 W
12,660.0	89.98	154.99	7,611.2	-5,811.5	57.8	418,171.71	1,716,105.67	39° 38' 37.498 N	80° 30' 29.353 W
12,755.0	89.78	154.70	7,611.4	-5,897.5	98.2	418,085.72	1,716,146.05	39° 38' 36.653 N	80° 30' 28.825 W
12,849.0	89.71	153.97	7,611.8	-5,982.2	138.9	418,001.00	1,716,186.76	39° 38' 35.820 N	80° 30' 28.292 W
12,944.0	89.84	154.83	7,612.2	-6,067.9	180.0	417,915.33	1,716,227.81	39° 38' 34.978 N	80° 30' 27.755 W

Survey Report - Geographic

Company:	EQT PRODUCTION	Local Co-ordinate Reference:	Well Hallibu 4H L-003976 - Slot Hallibu 4H SHL
Project:	Wetzel County, WV	TVD Reference:	KB@28 @ 1368.0usft
Site:	Hallibu Pad (Bottom Hole)	MD Reference:	KB@28 @ 1368.0usft
Well:	Hallibu 4H L-003976	North Reference:	Grid
Wellbore:	Main	Survey Calculation Method:	Minimum Curvature
Design:	Hallibu 4H 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
13,039.0	89.58	154.48	7,612.6	-6,153.7	220.6	417,829.47	1,716,268.48	39° 38' 34.134 N	80° 30' 27.223 W
13,134.0	89.58	153.75	7,613.3	-6,239.2	262.1	417,744.01	1,716,309.95	39° 38' 33.294 N	80° 30' 26.681 W
13,228.0	89.91	154.62	7,613.8	-6,323.8	303.0	417,659.39	1,716,350.88	39° 38' 32.462 N	80° 30' 26.145 W
13,321.0	89.41	154.73	7,614.3	-6,407.9	342.8	417,575.33	1,716,390.66	39° 38' 31.636 N	80° 30' 25.625 W
13,415.0	89.78	154.44	7,615.0	-6,492.8	383.2	417,490.43	1,716,431.00	39° 38' 30.801 N	80° 30' 25.097 W
13,510.0	90.25	154.59	7,614.9	-6,578.5	424.0	417,404.67	1,716,471.88	39° 38' 29.958 N	80° 30' 24.562 W
13,605.0	90.11	154.64	7,614.6	-6,664.4	464.8	417,318.84	1,716,512.60	39° 38' 29.114 N	80° 30' 24.029 W
13,700.0	89.98	154.46	7,614.6	-6,750.1	505.6	417,233.06	1,716,553.43	39° 38' 28.271 N	80° 30' 23.495 W
13,795.0	90.08	153.56	7,614.5	-6,835.5	547.2	417,147.67	1,716,595.06	39° 38' 27.432 N	80° 30' 22.951 W
13,890.0	90.05	153.85	7,614.4	-6,920.7	589.3	417,062.50	1,716,637.14	39° 38' 26.595 N	80° 30' 22.401 W
13,985.0	89.24	154.48	7,615.0	-7,006.2	630.7	416,977.00	1,716,678.54	39° 38' 25.754 N	80° 30' 21.859 W
14,079.0	89.98	154.88	7,615.6	-7,091.2	670.9	416,892.03	1,716,718.74	39° 38' 24.919 N	80° 30' 21.333 W
14,174.0	89.98	154.48	7,615.7	-7,177.0	711.5	416,806.16	1,716,759.37	39° 38' 24.075 N	80° 30' 20.802 W
14,268.0	89.68	154.69	7,616.0	-7,261.9	751.9	416,721.26	1,716,799.71	39° 38' 23.240 N	80° 30' 20.274 W
14,363.0	89.58	154.08	7,616.6	-7,347.6	792.9	416,635.60	1,716,840.78	39° 38' 22.398 N	80° 30' 19.737 W
14,459.0	89.91	155.20	7,617.0	-7,434.3	834.1	416,548.85	1,716,881.90	39° 38' 21.545 N	80° 30' 19.199 W
14,554.0	89.84	154.54	7,617.2	-7,520.4	874.4	416,462.84	1,716,922.24	39° 38' 20.700 N	80° 30' 18.671 W
14,649.0	90.01	154.33	7,617.3	-7,606.1	915.4	416,377.14	1,716,963.24	39° 38' 19.857 N	80° 30' 18.134 W
14,744.0	89.91	153.95	7,617.4	-7,691.5	956.8	416,291.66	1,717,004.67	39° 38' 19.017 N	80° 30' 17.593 W
14,839.0	89.37	154.48	7,618.0	-7,777.1	998.2	416,206.12	1,717,046.00	39° 38' 18.176 N	80° 30' 17.052 W
14,934.0	89.41	154.14	7,619.0	-7,862.7	1,039.3	416,120.51	1,717,087.18	39° 38' 17.335 N	80° 30' 16.514 W
15,029.0	89.68	153.75	7,619.8	-7,948.0	1,081.1	416,035.17	1,717,128.90	39° 38' 16.496 N	80° 30' 15.968 W
15,124.0	91.86	158.17	7,618.5	-8,034.8	1,119.7	415,948.45	1,717,167.59	39° 38' 15.643 N	80° 30' 15.461 W
15,218.0	90.75	154.52	7,616.3	-8,120.8	1,157.4	415,862.38	1,717,205.29	39° 38' 14.797 N	80° 30' 14.967 W
15,312.0	91.59	156.21	7,614.4	-8,206.2	1,196.6	415,776.96	1,717,244.46	39° 38' 13.957 N	80° 30' 14.454 W
15,407.0	90.78	155.40	7,612.5	-8,292.9	1,235.5	415,690.32	1,717,283.39	39° 38' 13.105 N	80° 30' 13.944 W
15,501.0	91.05	155.38	7,611.0	-8,378.3	1,274.7	415,604.87	1,717,322.53	39° 38' 12.265 N	80° 30' 13.432 W
15,596.0	90.45	155.19	7,609.7	-8,464.6	1,314.4	415,518.58	1,717,362.24	39° 38' 11.416 N	80° 30' 12.912 W
15,691.0	90.18	155.49	7,609.2	-8,550.9	1,354.0	415,432.25	1,717,401.88	39° 38' 10.567 N	80° 30' 12.393 W
15,786.0	90.35	155.22	7,608.7	-8,637.3	1,393.7	415,345.90	1,717,441.49	39° 38' 9.718 N	80° 30' 11.874 W
15,880.0	90.45	155.29	7,608.1	-8,722.7	1,433.0	415,260.54	1,717,480.84	39° 38' 8.879 N	80° 30' 11.359 W
15,975.0	90.25	155.06	7,607.5	-8,808.9	1,472.9	415,174.32	1,717,520.72	39° 38' 8.031 N	80° 30' 10.837 W
16,069.0	90.05	155.57	7,607.3	-8,894.3	1,512.1	415,088.91	1,717,559.98	39° 38' 7.192 N	80° 30' 10.323 W
16,164.0	90.08	154.39	7,607.2	-8,980.4	1,552.3	415,002.82	1,717,600.16	39° 38' 6.345 N	80° 30' 9.797 W
16,258.0	90.31	155.58	7,606.8	-9,065.6	1,592.1	414,917.64	1,717,639.91	39° 38' 5.508 N	80° 30' 9.277 W
16,353.0	90.41	156.10	7,606.2	-9,152.2	1,630.9	414,830.97	1,717,678.79	39° 38' 4.655 N	80° 30' 8.768 W
16,448.0	90.51	156.23	7,605.5	-9,239.1	1,669.3	414,744.07	1,717,717.18	39° 38' 3.801 N	80° 30' 8.265 W
16,543.0	90.82	155.33	7,604.4	-9,325.8	1,708.3	414,657.44	1,717,756.15	39° 38' 2.949 N	80° 30' 7.754 W
16,638.0	90.41	155.21	7,603.4	-9,412.0	1,748.0	414,571.16	1,717,795.89	39° 38' 2.101 N	80° 30' 7.234 W
16,732.0	90.78	155.13	7,602.4	-9,497.3	1,787.5	414,485.85	1,717,835.36	39° 38' 1.262 N	80° 30' 6.717 W
16,828.0	90.75	155.37	7,601.1	-9,584.5	1,827.7	414,398.68	1,717,875.54	39° 38' 0.405 N	80° 30' 6.191 W
16,922.0	90.62	154.74	7,600.0	-9,669.7	1,867.3	414,313.46	1,717,915.19	39° 37' 59.567 N	80° 30' 5.672 W
17,017.0	90.88	155.14	7,598.7	-9,755.8	1,907.6	414,227.41	1,717,955.42	39° 37' 58.721 N	80° 30' 5.146 W
17,111.0	90.88	155.21	7,597.3	-9,841.1	1,947.0	414,142.10	1,717,994.88	39° 37' 57.882 N	80° 30' 4.629 W
17,205.0	91.19	154.77	7,595.6	-9,926.3	1,986.8	414,056.93	1,718,034.62	39° 37' 57.045 N	80° 30' 4.109 W
17,299.0	90.88	154.22	7,593.9	-10,011.1	2,027.2	413,972.10	1,718,075.08	39° 37' 56.211 N	80° 30' 3.580 W
17,394.0	91.22	154.84	7,592.2	-10,096.8	2,068.1	413,886.35	1,718,115.93	39° 37' 55.368 N	80° 30' 3.046 W
17,490.0	91.12	154.53	7,590.2	-10,183.6	2,109.1	413,799.59	1,718,156.97	39° 37' 54.515 N	80° 30' 2.509 W
17,585.0	90.38	154.40	7,588.9	-10,269.3	2,150.1	413,713.88	1,718,197.92	39° 37' 53.672 N	80° 30' 1.973 W
17,679.0	89.98	156.07	7,588.7	-10,354.7	2,189.5	413,628.53	1,718,237.29	39° 37' 52.833 N	80° 30' 1.458 W
17,774.0	90.48	155.33	7,588.3	-10,441.3	2,228.5	413,541.94	1,718,276.39	39° 37' 51.982 N	80° 30' 0.946 W
17,869.0	90.35	155.49	7,587.6	-10,527.6	2,268.1	413,455.56	1,718,315.92	39° 37' 51.132 N	80° 30' 0.428 W
17,963.0	90.65	155.21	7,586.8	-10,613.1	2,307.3	413,370.13	1,718,355.12	39° 37' 50.292 N	80° 29' 59.915 W
18,057.0	90.48	155.70	7,585.8	-10,698.6	2,346.3	413,284.63	1,718,394.17	39° 37' 49.451 N	80° 29' 59.404 W
18,151.0	90.75	155.63	7,584.8	-10,784.2	2,385.1	413,198.99	1,718,432.90	39° 37' 48.609 N	80° 29' 58.897 W

Survey Report - Geographic

Company:	EQT PRODUCTION	Local Co-ordinate Reference:	Well Hallibu 4H L-003976 - Slot Hallibu 4H SHL
Project:	Wetzel County, WV	TVD Reference:	KB@28 @ 1368.0usft
Site:	Hallibu Pad (Bottom Hole)	MD Reference:	KB@28 @ 1368.0usft
Well:	Hallibu 4H L-003976	North Reference:	Grid
Wellbore:	Main	Survey Calculation Method:	Minimum Curvature
Design:	Hallibu 4H 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
18,245.0	90.65	154.56	7,583.7	-10,869.5	2,424.6	413,113.74	1,718,472.48	39° 37' 47.771 N	80° 29' 58.379 W
18,340.0	91.19	155.23	7,582.2	-10,955.5	2,464.9	413,027.72	1,718,512.78	39° 37' 46.925 N	80° 29' 57.852 W
18,434.0	90.99	155.11	7,580.4	-11,040.8	2,504.4	412,942.43	1,718,552.25	39° 37' 46.087 N	80° 29' 57.335 W
18,529.0	91.09	154.89	7,578.6	-11,126.9	2,544.5	412,856.34	1,718,592.39	39° 37' 45.240 N	80° 29' 56.810 W
18,623.0	90.95	155.76	7,577.0	-11,212.3	2,583.8	412,770.94	1,718,631.63	39° 37' 44.401 N	80° 29' 56.296 W
18,717.0	90.85	155.88	7,575.5	-11,298.0	2,622.3	412,685.20	1,718,670.12	39° 37' 43.558 N	80° 29' 55.792 W
18,812.0	90.58	155.21	7,574.3	-11,384.5	2,661.6	412,598.73	1,718,709.45	39° 37' 42.707 N	80° 29' 55.277 W
18,906.0	91.09	155.10	7,572.9	-11,469.8	2,701.1	412,513.44	1,718,748.94	39° 37' 41.869 N	80° 29' 54.760 W
19,001.0	91.15	155.60	7,571.1	-11,556.1	2,740.7	412,427.11	1,718,788.55	39° 37' 41.020 N	80° 29' 54.242 W
19,095.0	91.02	154.83	7,569.3	-11,641.4	2,780.1	412,341.79	1,718,827.95	39° 37' 40.181 N	80° 29' 53.726 W
19,190.0	91.09	154.74	7,567.5	-11,727.3	2,820.6	412,255.85	1,718,868.42	39° 37' 39.336 N	80° 29' 53.197 W
19,284.0	91.46	155.78	7,565.5	-11,812.7	2,859.9	412,170.50	1,718,907.75	39° 37' 38.497 N	80° 29' 52.682 W
19,378.0	91.59	154.90	7,563.0	-11,898.1	2,899.1	412,085.11	1,718,946.95	39° 37' 37.657 N	80° 29' 52.169 W
19,473.0	91.15	155.16	7,560.7	-11,984.2	2,939.2	411,999.01	1,718,987.04	39° 37' 36.811 N	80° 29' 51.644 W
19,568.0	91.49	154.11	7,558.5	-12,070.0	2,979.9	411,913.19	1,719,027.73	39° 37' 35.967 N	80° 29' 51.112 W
19,663.0	91.36	154.66	7,556.1	-12,155.6	3,020.9	411,827.56	1,719,068.79	39° 37' 35.125 N	80° 29' 50.575 W
19,758.0	91.76	155.64	7,553.5	-12,241.8	3,060.9	411,741.39	1,719,108.69	39° 37' 34.278 N	80° 29' 50.053 W
19,852.0	91.62	155.22	7,550.8	-12,327.3	3,099.9	411,655.93	1,719,147.76	39° 37' 33.438 N	80° 29' 49.542 W
19,947.0	91.76	155.13	7,548.0	-12,413.4	3,139.8	411,569.75	1,719,187.63	39° 37' 32.590 N	80° 29' 49.020 W
20,041.0	90.58	155.58	7,546.1	-12,498.9	3,179.0	411,484.33	1,719,226.82	39° 37' 31.750 N	80° 29' 48.507 W
20,136.0	91.12	155.91	7,544.6	-12,585.5	3,218.0	411,397.73	1,719,265.84	39° 37' 30.899 N	80° 29' 47.996 W
20,230.0	90.62	155.08	7,543.2	-12,671.0	3,257.0	411,312.21	1,719,304.82	39° 37' 30.058 N	80° 29' 47.486 W
20,325.0	90.05	154.36	7,542.7	-12,756.9	3,297.5	411,226.31	1,719,345.39	39° 37' 29.213 N	80° 29' 46.955 W
20,420.0	90.99	154.30	7,541.8	-12,842.5	3,338.7	411,140.69	1,719,386.54	39° 37' 28.372 N	80° 29' 46.417 W
20,515.0	90.68	155.49	7,540.4	-12,928.5	3,379.0	411,054.67	1,719,426.84	39° 37' 27.526 N	80° 29' 45.890 W
20,609.0	90.68	155.31	7,539.3	-13,014.0	3,418.1	410,969.21	1,719,465.97	39° 37' 26.686 N	80° 29' 45.378 W
20,704.0	90.62	155.46	7,538.2	-13,100.3	3,457.7	410,882.85	1,719,505.54	39° 37' 25.836 N	80° 29' 44.860 W
20,799.0	90.21	155.03	7,537.5	-13,186.6	3,497.5	410,796.58	1,719,545.32	39° 37' 24.988 N	80° 29' 44.339 W
20,895.0	90.28	155.11	7,537.1	-13,273.7	3,537.9	410,709.53	1,719,585.78	39° 37' 24.132 N	80° 29' 43.810 W
20,990.0	90.52	153.34	7,536.5	-13,359.2	3,579.2	410,623.98	1,719,627.09	39° 37' 23.291 N	80° 29' 43.270 W
21,084.0	90.38	154.40	7,535.7	-13,443.6	3,620.6	410,539.60	1,719,668.49	39° 37' 22.462 N	80° 29' 42.729 W
21,179.0	90.99	153.83	7,534.6	-13,529.1	3,662.1	410,454.13	1,719,709.96	39° 37' 21.622 N	80° 29' 42.187 W
21,273.0	90.99	154.83	7,533.0	-13,613.8	3,702.8	410,369.42	1,719,750.67	39° 37' 20.789 N	80° 29' 41.654 W
21,368.0	90.48	155.21	7,531.7	-13,699.9	3,742.9	410,283.32	1,719,790.78	39° 37' 19.942 N	80° 29' 41.130 W
21,462.0	90.78	155.47	7,530.7	-13,785.3	3,782.2	410,197.90	1,719,830.00	39° 37' 19.102 N	80° 29' 40.616 W
21,557.0	90.68	154.94	7,529.5	-13,871.5	3,822.0	410,111.66	1,719,869.84	39° 37' 18.254 N	80° 29' 40.095 W
21,651.0	91.12	153.85	7,528.0	-13,956.3	3,862.6	410,026.91	1,719,910.46	39° 37' 17.421 N	80° 29' 39.564 W
21,745.0	90.42	154.30	7,526.8	-14,040.8	3,903.7	409,942.37	1,719,951.55	39° 37' 16.590 N	80° 29' 39.027 W
21,840.0	90.95	155.15	7,525.6	-14,126.7	3,944.3	409,856.47	1,719,992.11	39° 37' 15.746 N	80° 29' 38.496 W
21,935.0	90.45	153.65	7,524.5	-14,212.4	3,985.3	409,770.81	1,720,033.15	39° 37' 14.904 N	80° 29' 37.960 W
22,030.0	90.45	154.50	7,523.7	-14,297.8	4,026.8	409,685.37	1,720,074.68	39° 37' 14.064 N	80° 29' 37.417 W
22,124.0	90.42	155.08	7,523.0	-14,382.9	4,066.9	409,600.33	1,720,114.72	39° 37' 13.228 N	80° 29' 36.893 W
22,219.0	90.65	154.97	7,522.1	-14,469.0	4,107.0	409,514.22	1,720,154.83	39° 37' 12.381 N	80° 29' 36.369 W
22,313.0	90.62	154.70	7,521.1	-14,554.1	4,147.0	409,429.14	1,720,194.80	39° 37' 11.545 N	80° 29' 35.846 W
22,408.0	90.48	154.56	7,520.2	-14,639.9	4,187.7	409,343.31	1,720,235.50	39° 37' 10.701 N	80° 29' 35.314 W
22,502.0	90.21	155.47	7,519.6	-14,725.1	4,227.4	409,258.11	1,720,275.20	39° 37' 9.863 N	80° 29' 34.794 W
22,597.0	90.99	155.30	7,518.6	-14,811.4	4,266.9	409,171.75	1,720,314.77	39° 37' 9.014 N	80° 29' 34.277 W
22,692.0	90.35	155.42	7,517.5	-14,897.8	4,306.5	409,085.40	1,720,354.37	39° 37' 8.165 N	80° 29' 33.758 W
22,786.0	90.11	155.62	7,517.1	-14,983.3	4,345.5	408,999.85	1,720,393.32	39° 37' 7.324 N	80° 29' 33.248 W
22,881.0	89.78	155.16	7,517.2	-15,069.7	4,385.0	408,913.48	1,720,432.89	39° 37' 6.474 N	80° 29' 32.731 W
22,976.0	89.14	155.06	7,518.1	-15,155.9	4,425.0	408,827.31	1,720,472.87	39° 37' 5.627 N	80° 29' 32.208 W
23,070.0	88.84	155.01	7,519.8	-15,241.1	4,464.7	408,742.11	1,720,512.53	39° 37' 4.789 N	80° 29' 31.689 W
23,165.0	88.94	154.68	7,521.6	-15,327.1	4,505.1	408,656.13	1,720,552.91	39° 37' 3.944 N	80° 29' 31.161 W
23,260.0	88.87	154.83	7,523.4	-15,413.0	4,545.6	408,570.22	1,720,593.42	39° 37' 3.099 N	80° 29' 30.631 W
23,356.0	89.11	155.02	7,525.1	-15,499.9	4,586.3	408,483.28	1,720,634.10	39° 37' 2.244 N	80° 29' 30.099 W

Survey Report - Geographic

Company:	EQT PRODUCTION	Local Co-ordinate Reference:	Well Hallibu 4H L-003976 - Slot Hallibu 4H SHL
Project:	Wetzel County, WV	TVD Reference:	KB@28 @ 1368.0usft
Site:	Hallibu Pad (Bottom Hole)	MD Reference:	KB@28 @ 1368.0usft
Well:	Hallibu 4H L-003976	North Reference:	Grid
Wellbore:	Main	Survey Calculation Method:	Minimum Curvature
Design:	Hallibu 4H 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
23,451.0	89.07	155.91	7,526.6	-15,586.3	4,625.7	408,396.87	1,720,673.54	39° 37' 1.395 N	80° 29' 29.583 W
23,546.0	88.43	154.39	7,528.7	-15,672.5	4,665.6	408,310.69	1,720,713.45	39° 37' 0.547 N	80° 29' 29.060 W
23,641.0	88.50	154.57	7,531.2	-15,758.2	4,706.5	408,224.99	1,720,754.37	39° 36' 59.705 N	80° 29' 28.526 W
23,736.0	88.97	154.47	7,533.3	-15,843.9	4,747.4	408,139.25	1,720,795.22	39° 36' 58.862 N	80° 29' 27.991 W
23,830.0	88.16	154.80	7,535.7	-15,928.9	4,787.6	408,054.34	1,720,835.48	39° 36' 58.027 N	80° 29' 27.465 W
23,925.0	88.47	155.37	7,538.5	-16,015.0	4,827.6	407,968.22	1,720,875.48	39° 36' 57.180 N	80° 29' 26.942 W
24,019.0	88.27	154.69	7,541.1	-16,100.2	4,867.3	407,883.04	1,720,915.15	39° 36' 56.343 N	80° 29' 26.423 W
24,114.0	88.47	154.92	7,543.9	-16,186.1	4,907.7	407,797.12	1,720,955.57	39° 36' 55.498 N	80° 29' 25.894 W
24,209.0	88.33	154.68	7,546.5	-16,272.0	4,948.2	407,711.19	1,720,996.01	39° 36' 54.653 N	80° 29' 25.365 W
24,304.0	88.00	155.63	7,549.5	-16,358.2	4,988.1	407,625.03	1,721,035.90	39° 36' 53.806 N	80° 29' 24.844 W
24,398.0	88.13	155.11	7,552.7	-16,443.6	5,027.2	407,539.63	1,721,075.05	39° 36' 52.966 N	80° 29' 24.331 W
24,492.0	88.26	156.24	7,555.7	-16,529.2	5,065.9	407,454.02	1,721,113.75	39° 36' 52.124 N	80° 29' 23.825 W
24,587.0	87.93	155.24	7,558.8	-16,615.7	5,104.9	407,367.46	1,721,152.76	39° 36' 51.273 N	80° 29' 23.314 W
24,682.0	87.80	154.64	7,562.4	-16,701.7	5,145.1	407,281.46	1,721,192.98	39° 36' 50.428 N	80° 29' 22.788 W
24,777.0	87.83	154.68	7,566.0	-16,787.5	5,185.8	407,195.66	1,721,233.60	39° 36' 49.584 N	80° 29' 22.257 W
24,872.0	87.53	155.24	7,569.8	-16,873.5	5,225.9	407,109.66	1,721,273.78	39° 36' 48.738 N	80° 29' 21.731 W
24,968.0	87.63	154.61	7,573.9	-16,960.4	5,266.6	407,022.79	1,721,314.43	39° 36' 47.884 N	80° 29' 21.200 W
25,063.0	87.63	154.99	7,577.8	-17,046.3	5,307.0	406,936.90	1,721,354.84	39° 36' 47.040 N	80° 29' 20.671 W
25,157.0	87.26	154.54	7,582.0	-17,131.2	5,347.0	406,851.96	1,721,394.88	39° 36' 46.205 N	80° 29' 20.148 W
25,253.0	88.94	154.67	7,585.2	-17,217.9	5,388.2	406,765.29	1,721,436.02	39° 36' 45.353 N	80° 29' 19.610 W
25,348.0	87.93	154.56	7,587.8	-17,303.7	5,428.9	406,679.49	1,721,476.74	39° 36' 44.509 N	80° 29' 19.078 W
25,443.0	88.97	155.10	7,590.4	-17,389.7	5,469.3	406,593.55	1,721,517.12	39° 36' 43.664 N	80° 29' 18.550 W
25,538.0	89.21	155.25	7,591.9	-17,475.9	5,509.2	406,507.34	1,721,557.00	39° 36' 42.816 N	80° 29' 18.028 W
25,633.0	89.21	155.31	7,593.2	-17,562.1	5,548.9	406,421.05	1,721,596.73	39° 36' 41.968 N	80° 29' 17.508 W
25,727.0	89.37	154.13	7,594.3	-17,647.1	5,589.0	406,336.06	1,721,636.87	39° 36' 41.132 N	80° 29' 16.983 W
25,822.0	89.21	152.90	7,595.5	-17,732.2	5,631.4	406,251.04	1,721,679.23	39° 36' 40.297 N	80° 29' 16.430 W
25,917.0	89.67	154.67	7,596.5	-17,817.4	5,673.3	406,165.82	1,721,721.19	39° 36' 39.459 N	80° 29' 15.882 W
26,012.0	89.10	154.68	7,597.5	-17,903.2	5,714.0	406,079.95	1,721,761.82	39° 36' 38.615 N	80° 29' 15.351 W
26,107.0	88.30	156.41	7,599.6	-17,989.7	5,753.3	405,993.50	1,721,801.14	39° 36' 37.765 N	80° 29' 14.836 W
26,202.0	86.75	156.64	7,603.7	-18,076.7	5,791.1	405,906.45	1,721,838.95	39° 36' 36.908 N	80° 29' 14.341 W
26,298.0	84.97	156.27	7,610.7	-18,164.5	5,829.4	405,818.67	1,721,877.19	39° 36' 36.045 N	80° 29' 13.840 W
26,393.0	83.08	156.12	7,620.6	-18,251.0	5,867.5	405,732.23	1,721,915.33	39° 36' 35.195 N	80° 29' 13.341 W
26,452.0	83.05	156.35	7,627.7	-18,304.6	5,891.1	405,678.63	1,721,938.93	39° 36' 34.668 N	80° 29' 13.032 W
26,474.0	83.05	156.35	7,630.3	-18,324.6	5,899.8	405,658.63	1,721,947.69	39° 36' 34.471 N	80° 29' 12.917 W

TD @ 26474' MD/ 7630.3' TVD - Deepest Point in Wellbore @ 26474' MD/ 7630.3' TVD

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,803.0	2,803.0	8.7	1.6	KOP1 2803' MD/ 2803' TVD
7,909.0	7,219.1	-1,562.6	-1,684.7	KOP2 @ 7909' MD/ 7219.1' TVD
8,493.5	7,540.8	-2,027.2	-1,678.9	Top of Marcellus @ 8493.5' MD/ 7540.8' TVD
8,669.0	7,561.3	-2,189.4	-1,616.1	Land @ 88.5° 8669' MD/ 7561.3' TVD
26,474.0	7,630.3	-18,324.6	5,899.8	TD @ 26474' MD/ 7630.3' TVD
26,474.0	7,630.3	-18,324.6	5,899.8	Deepest Point in Wellbore @ 26474' MD/ 7630.3' TVD

Checked By: _____ Approved By: _____ Date: _____



Hallibu Pad (Btm Hole)
Hallibu 4H L-003976
Hallibu 4H As Drilled
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

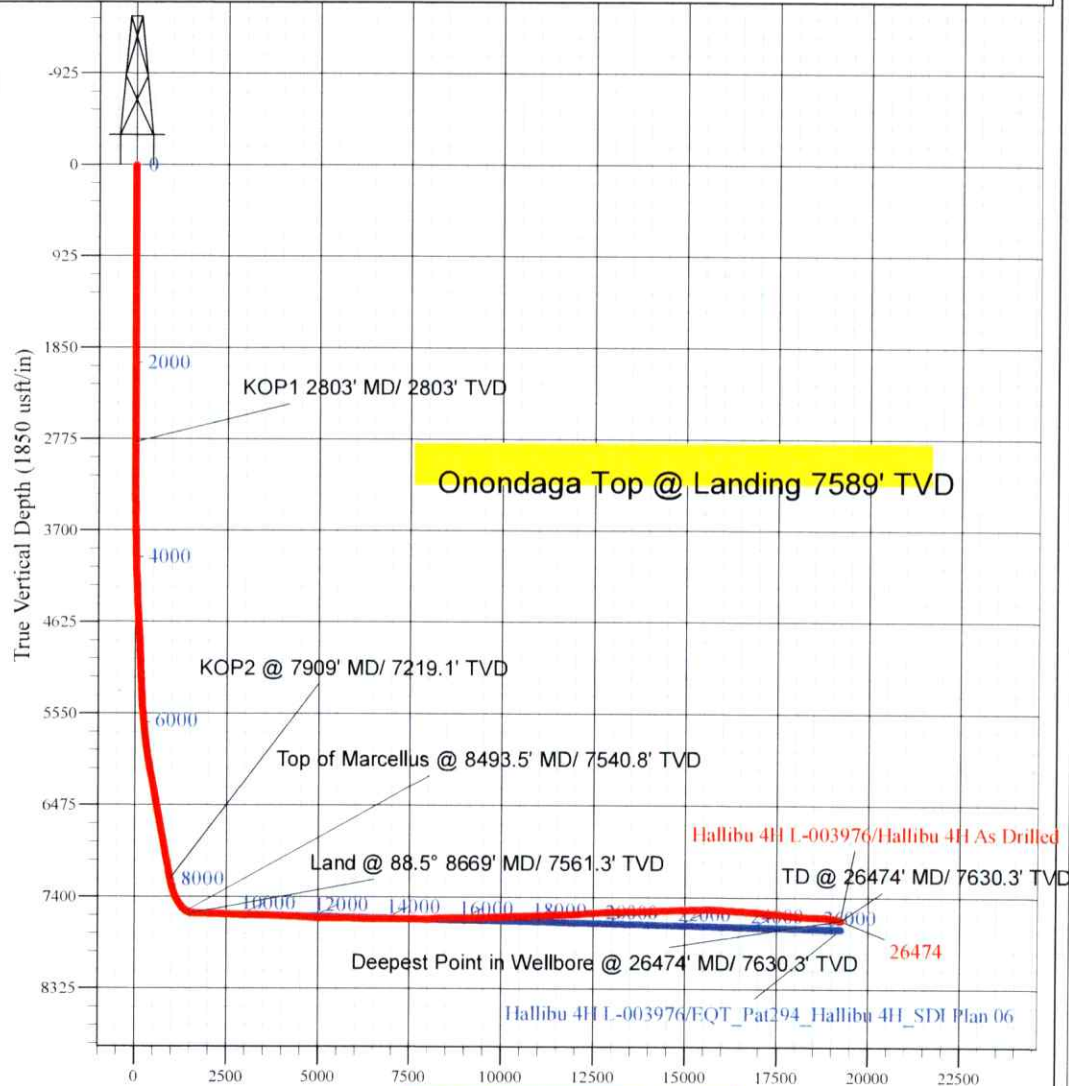


WELL DETAILS: Hallibu 4H L-003976

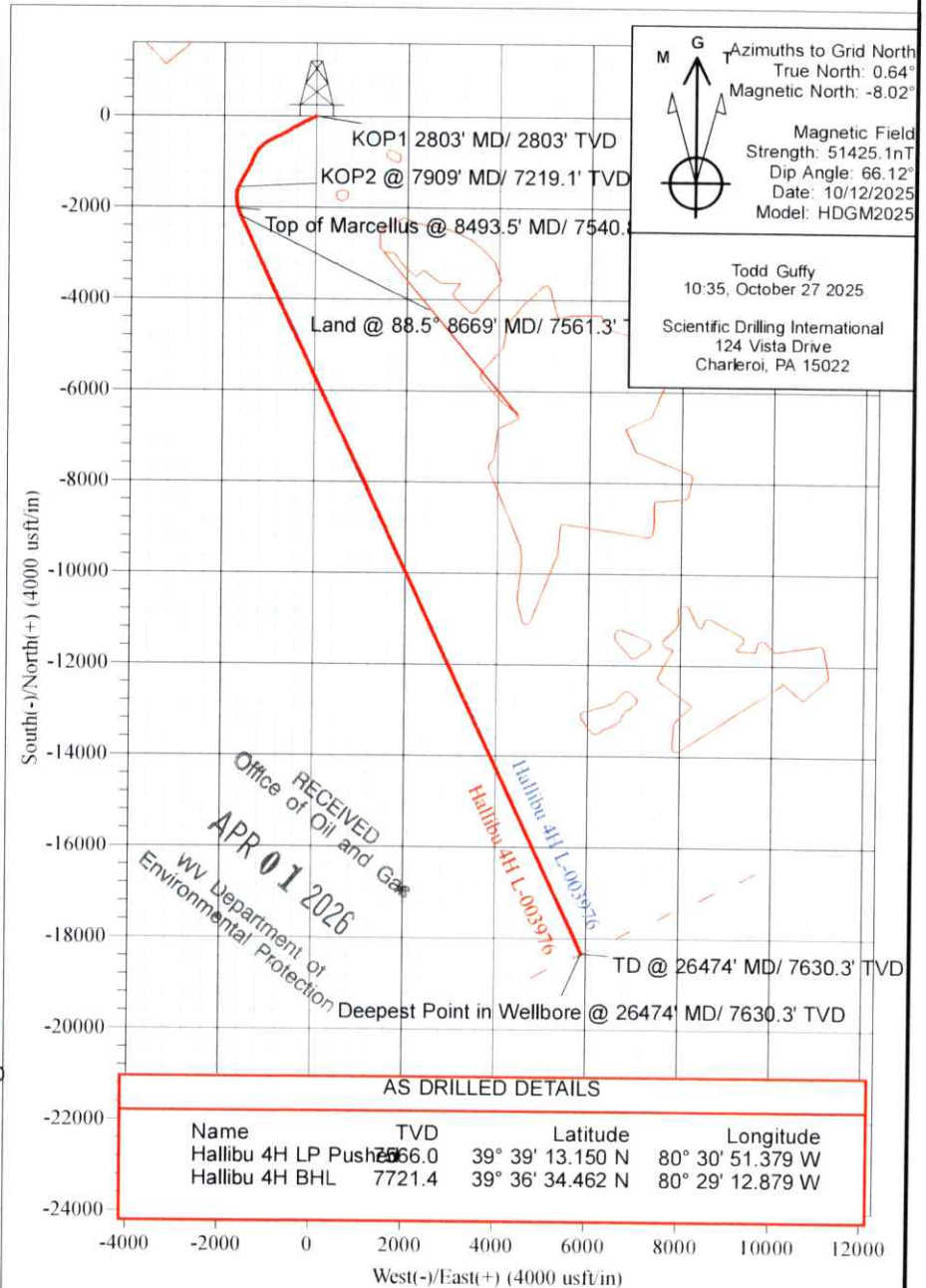
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.0	0.0	423983.20	1716047.84	39° 39' 34.927 N	80° 30' 30.927 W	Hallibu 4H SHL

SECTION DETAILS

No plan data is available



Vertical Section at 162.15° (5000 usf/in)



Azimuths to Grid North
True North: 0.64°
Magnetic North: -8.02°
Magnetic Field
Strength: 51425.1nT
Dip Angle: 66.12°
Date: 10/12/2025
Model: HDGM2025

Todd Guffy
10/35, October 27 2025

Scientific Drilling International
124 Vista Drive
Charlertoi, PA 15022

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Office of Oil and Gas
APR 01 2026
WV Department of
Environmental Protection

AS DRILLED DETAILS

Name	TVD	Latitude	Longitude
Hallibu 4H LP Pushover	7566.0	39° 39' 13.150 N	80° 30' 51.379 W
Hallibu 4H BHL	7721.4	39° 36' 34.462 N	80° 29' 12.879 W