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WV Department of
Environmental Protection

EQT PRODUCTION

Wetzel County, WV
Hallibu Pad (Bottom Hole)
Hallibu 8H L-003978 - Slot Hallibu 8H SHL

Main

Design: Hallibu 8H As Drilled

Survey Report - Geographic

06 November, 2025



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09/04/2026

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Company:	EQT PRODUCTION	Local Co-ordinate Reference:	Well Hallibu 8H L-003978
Project:	Wetzel County, WV	TVD Reference:	KB@28 @ 1368.0usft
Site:	Hallibu Pad (Bottom Hole)	MD Reference:	KB@28 @ 1368.0usft
Well:	Hallibu 8H L-003978	North Reference:	Grid
Wellbore:	Main	Survey Calculation Method:	Minimum Curvature
Design:	Hallibu 8H 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 8H L-003978 - Slot Hallibu 8H SHL		
Well Position	+N/-S	0.0 usft	Northing: 423,981.76 usft
	+E/-W	0.0 usft	Easting: 1,716,077.81 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	39° 39' 34.916 N
		Longitude:	80° 30' 30.543 W
		Ground Level:	1,340.0 usft

Wellbore	Main
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IFR	10/1/2025	-8.47	66.11	51,201.60000000

Design	Hallibu 8H 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
			156.26

Survey Program		Date	10/29/2025	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
115.0	2,636.0	Gyrodata (Main)	GYD_CT+WIR+HA_DI	Gyrodata Continuous Tool including GyroCompass
2,717.0	6,863.0	SDI Tophole (Main)	SDI MWD 2018	SDI MWD - Standard ver 1.0.1
6,960.0	27,769.0	Survey #3 (Main)	MWD+IFR1+SAG+FDIR (	OWSG MWD + IFR1 + SAG + FDIR Correction

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	423,981.76	1,716,077.81	39° 39' 34.916 N	80° 30' 30.543 W
115.0	0.29	76.01	115.0	0.1	0.3	423,981.83	1,716,078.09	39° 39' 34.917 N	80° 30' 30.540 W
215.0	0.29	76.54	215.0	0.2	0.8	423,981.95	1,716,078.58	39° 39' 34.918 N	80° 30' 30.534 W
315.0	0.23	92.71	315.0	0.2	1.2	423,982.00	1,716,079.03	39° 39' 34.919 N	80° 30' 30.528 W
415.0	0.23	89.22	415.0	0.2	1.6	423,981.99	1,716,079.43	39° 39' 34.919 N	80° 30' 30.523 W
515.0	0.20	82.38	515.0	0.3	2.0	423,982.01	1,716,079.80	39° 39' 34.919 N	80° 30' 30.518 W
615.0	0.17	73.11	615.0	0.3	2.3	423,982.08	1,716,080.12	39° 39' 34.920 N	80° 30' 30.514 W
715.0	0.18	74.72	715.0	0.4	2.6	423,982.17	1,716,080.41	39° 39' 34.921 N	80° 30' 30.510 W
815.0	0.21	86.73	815.0	0.5	2.9	423,982.22	1,716,080.75	39° 39' 34.921 N	80° 30' 30.506 W
915.0	0.08	43.09	915.0	0.5	3.2	423,982.28	1,716,080.98	39° 39' 34.922 N	80° 30' 30.503 W

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Company:	EQT PRODUCTION	Local Co-ordinate Reference:	Well Hallibu 8H L-003978 - Slot Hallibu 8H SHL
Project:	Wetzel County, WV	TVD Reference:	KB@28 @ 1368.0usft
Site:	Hallibu Pad (Bottom Hole)	MD Reference:	KB@28 @ 1368.0usft
Well:	Hallibu 8H L-003978	North Reference:	Grid
Wellbore:	Main	Survey Calculation Method:	Minimum Curvature
Design:	Hallibu 8H 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	0.11	82.63	1,015.0	0.6	3.3	423,982.34	1,716,081.12	39° 39' 34.922 N	80° 30' 30.501 W
1,115.0	0.13	101.53	1,115.0	0.6	3.5	423,982.33	1,716,081.33	39° 39' 34.922 N	80° 30' 30.498 W
1,215.0	0.09	132.56	1,215.0	0.5	3.7	423,982.26	1,716,081.49	39° 39' 34.922 N	80° 30' 30.496 W
1,315.0	0.06	43.32	1,315.0	0.5	3.8	423,982.24	1,716,081.59	39° 39' 34.922 N	80° 30' 30.495 W
1,415.0	0.10	64.97	1,415.0	0.6	3.9	423,982.32	1,716,081.70	39° 39' 34.922 N	80° 30' 30.494 W
1,515.0	0.09	38.47	1,515.0	0.7	4.0	423,982.41	1,716,081.83	39° 39' 34.923 N	80° 30' 30.492 W
1,615.0	0.10	17.49	1,615.0	0.8	4.1	423,982.56	1,716,081.91	39° 39' 34.925 N	80° 30' 30.491 W
1,715.0	0.12	53.07	1,715.0	0.9	4.2	423,982.70	1,716,082.02	39° 39' 34.926 N	80° 30' 30.490 W
1,815.0	0.13	45.44	1,815.0	1.1	4.4	423,982.85	1,716,082.18	39° 39' 34.928 N	80° 30' 30.488 W
1,915.0	0.13	44.50	1,915.0	1.3	4.5	423,983.01	1,716,082.34	39° 39' 34.929 N	80° 30' 30.486 W
2,015.0	0.14	26.22	2,015.0	1.4	4.7	423,983.20	1,716,082.47	39° 39' 34.931 N	80° 30' 30.484 W
2,115.0	0.10	46.92	2,115.0	1.6	4.8	423,983.37	1,716,082.59	39° 39' 34.933 N	80° 30' 30.482 W
2,215.0	0.16	37.21	2,215.0	1.8	4.9	423,983.54	1,716,082.74	39° 39' 34.935 N	80° 30' 30.481 W
2,315.0	0.10	3.04	2,315.0	2.0	5.0	423,983.74	1,716,082.83	39° 39' 34.936 N	80° 30' 30.479 W
2,415.0	0.10	322.29	2,415.0	2.1	5.0	423,983.89	1,716,082.78	39° 39' 34.938 N	80° 30' 30.480 W
2,515.0	0.11	337.74	2,515.0	2.3	4.9	423,984.05	1,716,082.69	39° 39' 34.940 N	80° 30' 30.481 W
2,615.0	0.18	343.50	2,615.0	2.5	4.8	423,984.29	1,716,082.61	39° 39' 34.942 N	80° 30' 30.482 W
2,636.0	0.11	332.28	2,636.0	2.6	4.8	423,984.34	1,716,082.59	39° 39' 34.942 N	80° 30' 30.483 W
2,717.0	0.54	345.30	2,717.0	3.0	4.7	423,984.78	1,716,082.46	39° 39' 34.947 N	80° 30' 30.484 W
2,759.0	0.78	322.36	2,759.0	3.4	4.4	423,985.20	1,716,082.23	39° 39' 34.951 N	80° 30' 30.487 W
KOP1 2759' MD/ 2759' TVD									
2,801.0	1.17	318.16	2,801.0	4.0	4.0	423,985.74	1,716,081.77	39° 39' 34.956 N	80° 30' 30.493 W
2,844.0	1.62	308.66	2,844.0	4.7	3.2	423,986.45	1,716,081.01	39° 39' 34.963 N	80° 30' 30.503 W
2,887.0	2.59	318.42	2,886.9	5.8	2.1	423,987.55	1,716,079.89	39° 39' 34.974 N	80° 30' 30.518 W
2,930.0	3.31	324.51	2,929.9	7.5	0.7	423,989.29	1,716,078.52	39° 39' 34.991 N	80° 30' 30.535 W
2,974.0	4.05	319.09	2,973.8	9.7	-1.0	423,991.50	1,716,076.77	39° 39' 35.013 N	80° 30' 30.558 W
3,016.0	5.23	316.55	3,015.7	12.3	-3.3	423,994.01	1,716,074.48	39° 39' 35.037 N	80° 30' 30.588 W
3,059.0	5.16	312.18	3,058.5	15.0	-6.1	423,996.73	1,716,071.70	39° 39' 35.064 N	80° 30' 30.624 W
3,102.0	6.14	306.42	3,101.3	17.6	-9.4	423,999.40	1,716,068.41	39° 39' 35.090 N	80° 30' 30.666 W
3,144.0	7.17	316.02	3,143.0	20.9	-13.0	424,002.62	1,716,064.79	39° 39' 35.121 N	80° 30' 30.713 W
3,187.0	8.11	320.65	3,185.6	25.1	-16.8	424,006.89	1,716,061.00	39° 39' 35.163 N	80° 30' 30.762 W
3,231.0	8.83	323.21	3,229.1	30.2	-20.8	424,012.00	1,716,057.01	39° 39' 35.213 N	80° 30' 30.814 W
3,274.0	9.70	323.20	3,271.6	35.8	-24.9	424,017.54	1,716,052.86	39° 39' 35.267 N	80° 30' 30.867 W
3,317.0	11.00	322.02	3,313.9	41.9	-29.6	424,023.68	1,716,048.17	39° 39' 35.327 N	80° 30' 30.928 W
3,361.0	12.23	321.90	3,357.0	48.9	-35.1	424,030.65	1,716,042.71	39° 39' 35.396 N	80° 30' 30.999 W
3,404.0	12.81	321.53	3,398.9	56.2	-40.9	424,037.97	1,716,036.93	39° 39' 35.467 N	80° 30' 31.074 W
3,447.0	13.46	319.40	3,440.8	63.7	-47.1	424,045.50	1,716,030.71	39° 39' 35.541 N	80° 30' 31.155 W
3,490.0	13.53	317.61	3,482.6	71.3	-53.7	424,053.02	1,716,024.06	39° 39' 35.615 N	80° 30' 31.241 W
3,532.0	15.08	316.80	3,523.3	78.9	-60.8	424,060.63	1,716,017.01	39° 39' 35.689 N	80° 30' 31.332 W
3,574.0	15.34	317.39	3,563.8	86.9	-68.3	424,068.70	1,716,009.51	39° 39' 35.768 N	80° 30' 31.429 W
3,616.0	16.01	320.42	3,604.3	95.5	-75.8	424,077.25	1,716,002.06	39° 39' 35.852 N	80° 30' 31.526 W
3,658.0	16.43	320.58	3,644.6	104.5	-83.2	424,086.30	1,715,994.59	39° 39' 35.940 N	80° 30' 31.622 W
3,700.0	17.26	319.23	3,684.8	113.9	-91.1	424,095.61	1,715,986.75	39° 39' 36.031 N	80° 30' 31.724 W
3,786.0	18.17	314.56	3,766.7	132.9	-108.9	424,114.68	1,715,968.87	39° 39' 36.218 N	80° 30' 31.955 W
3,873.0	17.10	312.72	3,849.6	151.1	-128.0	424,132.88	1,715,949.80	39° 39' 36.396 N	80° 30' 32.202 W
3,959.0	16.61	313.76	3,932.0	168.2	-146.2	424,149.96	1,715,931.64	39° 39' 36.562 N	80° 30' 32.436 W
4,044.0	18.75	317.61	4,012.9	186.7	-164.2	424,168.45	1,715,913.65	39° 39' 36.743 N	80° 30' 32.669 W
4,129.0	18.63	317.43	4,093.5	206.8	-182.6	424,188.54	1,715,895.26	39° 39' 36.940 N	80° 30' 32.907 W
4,215.0	18.41	319.00	4,175.0	227.2	-200.8	424,208.91	1,715,877.05	39° 39' 37.139 N	80° 30' 33.143 W
4,299.0	18.77	319.75	4,254.6	247.5	-218.2	424,229.23	1,715,859.62	39° 39' 37.338 N	80° 30' 33.369 W
4,384.0	19.63	319.90	4,334.9	268.8	-236.2	424,250.59	1,715,841.59	39° 39' 37.547 N	80° 30' 33.602 W
4,469.0	18.56	320.09	4,415.2	290.1	-254.1	424,271.89	1,715,823.71	39° 39' 37.756 N	80° 30' 33.834 W
4,555.0	17.41	321.99	4,497.0	310.8	-270.8	424,292.53	1,715,807.01	39° 39' 37.958 N	80° 30' 34.051 W
4,644.0	17.94	321.96	4,581.8	332.1	-287.4	424,313.81	1,715,790.36	39° 39' 38.166 N	80° 30' 34.266 W
4,726.0	18.06	321.69	4,659.8	352.0	-303.1	424,333.73	1,715,774.70	39° 39' 38.361 N	80° 30' 34.470 W

Survey Report - Geographic

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Project:	Wetzel County, WV	TVD Reference:	KB@28 @ 1368.0usft
Site:	Hallibu Pad (Bottom Hole)	MD Reference:	KB@28 @ 1368.0usft
Well:	Hallibu 8H L-003978	North Reference:	Grid
Wellbore:	Main	Survey Calculation Method:	Minimum Curvature
Design:	Hallibu 8H 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
4,811.0	18.52	321.38	4,740.5	372.9	-319.7	424,354.62	1,715,758.10	39° 39' 38.566 N	80° 30' 34.685 W
4,895.0	19.18	322.60	4,820.0	394.2	-336.4	424,376.00	1,715,741.40	39° 39' 38.775 N	80° 30' 34.901 W
4,971.0	19.25	318.93	4,891.8	413.6	-352.2	424,395.37	1,715,725.58	39° 39' 38.965 N	80° 30' 35.106 W
5,058.0	17.86	315.70	4,974.2	434.0	-371.0	424,415.73	1,715,706.84	39° 39' 39.164 N	80° 30' 35.349 W
5,142.0	17.73	316.96	5,054.2	452.5	-388.7	424,434.30	1,715,689.12	39° 39' 39.346 N	80° 30' 35.578 W
5,227.0	19.56	318.04	5,134.8	472.6	-407.0	424,454.34	1,715,670.77	39° 39' 39.542 N	80° 30' 35.816 W
5,312.0	19.89	315.84	5,214.8	493.5	-426.6	424,475.29	1,715,651.18	39° 39' 39.747 N	80° 30' 36.069 W
5,397.0	19.11	313.75	5,294.9	513.5	-446.8	424,495.29	1,715,631.06	39° 39' 39.942 N	80° 30' 36.329 W
5,483.0	18.58	314.72	5,376.3	532.9	-466.7	424,514.66	1,715,611.15	39° 39' 40.131 N	80° 30' 36.587 W
5,568.0	18.80	315.51	5,456.8	552.2	-485.9	424,533.96	1,715,591.93	39° 39' 40.320 N	80° 30' 36.835 W
5,653.0	19.53	315.24	5,537.1	572.1	-505.5	424,553.82	1,715,572.33	39° 39' 40.514 N	80° 30' 37.089 W
5,739.0	19.66	315.24	5,618.1	592.5	-525.8	424,574.30	1,715,552.02	39° 39' 40.714 N	80° 30' 37.351 W
5,823.0	19.06	315.64	5,697.4	612.4	-545.3	424,594.14	1,715,532.48	39° 39' 40.908 N	80° 30' 37.604 W
5,907.0	18.18	316.52	5,777.0	631.7	-563.9	424,613.46	1,715,513.87	39° 39' 41.097 N	80° 30' 37.845 W
5,982.0	18.63	317.68	5,848.1	649.0	-580.1	424,630.80	1,715,497.76	39° 39' 41.267 N	80° 30' 38.053 W
6,069.0	19.72	316.61	5,930.3	670.0	-599.5	424,651.75	1,715,478.32	39° 39' 41.471 N	80° 30' 38.305 W
6,155.0	19.10	316.63	6,011.4	690.8	-619.1	424,672.52	1,715,458.69	39° 39' 41.674 N	80° 30' 38.559 W
6,240.0	18.31	317.28	6,091.9	710.7	-637.7	424,692.44	1,715,440.08	39° 39' 41.869 N	80° 30' 38.800 W
6,324.0	18.48	318.04	6,171.6	730.3	-655.6	424,712.03	1,715,422.23	39° 39' 42.061 N	80° 30' 39.031 W
6,411.0	18.25	320.03	6,254.2	751.0	-673.6	424,732.72	1,715,404.26	39° 39' 42.263 N	80° 30' 39.263 W
6,498.0	19.32	320.67	6,336.6	772.5	-691.4	424,754.30	1,715,386.38	39° 39' 42.475 N	80° 30' 39.495 W
6,582.0	20.25	320.07	6,415.6	794.4	-709.6	424,776.19	1,715,368.25	39° 39' 42.689 N	80° 30' 39.730 W
6,667.0	21.04	317.41	6,495.1	817.0	-729.3	424,798.71	1,715,348.48	39° 39' 42.909 N	80° 30' 39.986 W
6,754.0	21.43	314.05	6,576.2	839.5	-751.3	424,821.26	1,715,326.48	39° 39' 43.130 N	80° 30' 40.271 W
6,863.0	21.79	312.57	6,677.6	867.0	-780.5	424,848.79	1,715,297.27	39° 39' 43.399 N	80° 30' 40.648 W
6,960.0	19.37	308.80	6,768.4	889.3	-806.3	424,871.05	1,715,271.47	39° 39' 43.616 N	80° 30' 40.981 W
KOP2 @ 6960' MD/ 6768.4' TVD									
7,054.0	13.30	287.64	6,858.6	902.4	-828.8	424,884.12	1,715,248.98	39° 39' 43.742 N	80° 30' 41.271 W
7,149.0	9.65	235.41	6,952.0	901.2	-845.8	424,882.91	1,715,231.96	39° 39' 43.728 N	80° 30' 41.488 W
7,244.0	12.44	183.74	7,045.4	886.4	-853.1	424,868.14	1,715,224.72	39° 39' 43.582 N	80° 30' 41.579 W
7,339.0	17.50	166.44	7,137.2	862.3	-850.4	424,844.01	1,715,227.41	39° 39' 43.344 N	80° 30' 41.541 W
7,434.0	24.44	159.92	7,225.9	829.9	-840.3	424,811.63	1,715,237.52	39° 39' 43.025 N	80° 30' 41.407 W
7,529.0	34.49	156.29	7,308.5	786.7	-822.7	424,768.43	1,715,255.13	39° 39' 42.600 N	80° 30' 41.175 W
7,624.0	45.04	153.63	7,381.4	731.8	-796.9	424,713.53	1,715,280.95	39° 39' 42.060 N	80° 30' 40.837 W
7,718.0	54.14	154.25	7,442.3	667.5	-765.5	424,649.29	1,715,312.33	39° 39' 41.429 N	80° 30' 40.427 W
7,813.0	66.52	154.07	7,489.2	593.4	-729.6	424,575.14	1,715,348.25	39° 39' 40.700 N	80° 30' 39.957 W
7,908.0	75.38	155.50	7,520.2	512.2	-691.4	424,493.97	1,715,386.44	39° 39' 39.902 N	80° 30' 39.457 W
8,003.0	80.16	156.34	7,540.3	427.5	-653.5	424,409.23	1,715,424.30	39° 39' 39.069 N	80° 30' 38.961 W
8,044.4	82.77	156.38	7,546.4	390.0	-637.1	424,371.73	1,715,440.72	39° 39' 38.700 N	80° 30' 38.745 W
Top of Marcellus @ 8044.4' MD/ 7546.4' TVD									
8,098.0	86.15	156.43	7,551.6	341.1	-615.7	424,322.85	1,715,462.07	39° 39' 38.219 N	80° 30' 38.465 W
8,192.0	85.07	156.97	7,558.8	255.0	-578.7	424,236.77	1,715,499.14	39° 39' 37.372 N	80° 30' 37.979 W
8,287.0	86.08	156.78	7,566.1	167.9	-541.5	424,149.66	1,715,536.34	39° 39' 36.516 N	80° 30' 37.491 W
8,382.0	87.40	156.19	7,571.5	80.9	-503.6	424,062.70	1,715,574.18	39° 39' 35.660 N	80° 30' 36.994 W
8,478.0	89.51	155.04	7,574.1	-6.5	-464.0	423,975.30	1,715,613.80	39° 39' 34.801 N	80° 30' 36.475 W
Land @ 89.5' 8478' MD/ 7574' TVD									
8,573.0	89.38	154.53	7,575.0	-92.4	-423.5	423,889.35	1,715,654.27	39° 39' 33.956 N	80° 30' 35.945 W
8,668.0	90.08	155.50	7,575.5	-178.5	-383.4	423,803.25	1,715,694.39	39° 39' 33.110 N	80° 30' 35.420 W
8,763.0	89.11	156.07	7,576.2	-265.1	-344.5	423,716.61	1,715,733.36	39° 39' 32.258 N	80° 30' 34.909 W
8,858.0	89.08	156.11	7,577.7	-352.0	-306.0	423,629.77	1,715,771.86	39° 39' 31.404 N	80° 30' 34.405 W
8,953.0	89.11	156.70	7,579.2	-439.0	-267.9	423,542.73	1,715,809.88	39° 39' 30.548 N	80° 30' 33.906 W
9,047.0	89.51	154.60	7,580.3	-524.7	-229.2	423,457.10	1,715,848.63	39° 39' 29.706 N	80° 30' 33.398 W
9,142.0	88.84	155.28	7,581.7	-610.7	-188.9	423,371.05	1,715,888.86	39° 39' 28.860 N	80° 30' 32.872 W
9,236.0	89.11	154.74	7,583.3	-695.9	-149.2	423,285.87	1,715,928.57	39° 39' 28.022 N	80° 30' 32.352 W
9,331.0	89.48	154.86	7,584.5	-781.8	-108.8	423,199.91	1,715,969.01	39° 39' 27.177 N	80° 30' 31.822 W

Survey Report - Geographic

Company:	EQT PRODUCTION	Local Co-ordinate Reference:	Well Hallibu 8H L-003978 - Slot Hallibu 8H SHL
Project:	Wetzel County, WV	TVD Reference:	KB@28 @ 1368.0usft
Site:	Hallibu Pad (Bottom Hole)	MD Reference:	KB@28 @ 1368.0usft
Well:	Hallibu 8H L-003978	North Reference:	Grid
Wellbore:	Main	Survey Calculation Method:	Minimum Curvature
Design:	Hallibu 8H 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
9,425.0	89.21	154.53	7,585.6	-866.8	-68.6	423,114.94	1,716,009.19	39° 39' 26.342 N	80° 30' 31.296 W
9,520.0	89.41	156.02	7,586.7	-953.1	-28.9	423,028.66	1,716,048.92	39° 39' 25.494 N	80° 30' 30.776 W
9,616.0	89.55	154.64	7,587.6	-1,040.3	11.2	422,941.43	1,716,088.99	39° 39' 24.636 N	80° 30' 30.251 W
9,711.0	89.41	154.93	7,588.5	-1,126.3	51.7	422,855.48	1,716,129.46	39° 39' 23.791 N	80° 30' 29.721 W
9,806.0	89.48	154.82	7,589.4	-1,212.3	92.0	422,769.47	1,716,169.79	39° 39' 22.945 N	80° 30' 29.193 W
9,900.0	88.91	155.33	7,590.7	-1,297.5	131.6	422,684.24	1,716,209.40	39° 39' 22.107 N	80° 30' 28.675 W
9,996.0	89.34	154.23	7,592.2	-1,384.4	172.5	422,597.40	1,716,250.30	39° 39' 21.254 N	80° 30' 28.139 W
10,091.0	90.22	157.20	7,592.5	-1,470.9	211.6	422,510.82	1,716,289.37	39° 39' 20.402 N	80° 30' 27.627 W
10,186.0	89.38	154.84	7,592.9	-1,557.7	250.2	422,424.03	1,716,327.97	39° 39' 19.549 N	80° 30' 27.121 W
10,281.0	89.31	155.56	7,594.0	-1,644.0	290.0	422,337.79	1,716,367.82	39° 39' 18.701 N	80° 30' 26.600 W
10,376.0	89.71	155.08	7,594.8	-1,730.3	329.7	422,251.47	1,716,407.49	39° 39' 17.852 N	80° 30' 26.080 W
10,472.0	89.88	154.37	7,595.1	-1,817.1	370.7	422,164.67	1,716,448.47	39° 39' 16.999 N	80° 30' 25.544 W
10,567.0	89.45	153.61	7,595.7	-1,902.5	412.3	422,079.29	1,716,490.13	39° 39' 16.160 N	80° 30' 24.999 W
10,662.0	89.41	153.77	7,596.6	-1,987.6	454.4	421,994.14	1,716,532.24	39° 39' 15.323 N	80° 30' 24.448 W
10,757.0	88.94	153.90	7,598.0	-2,072.9	496.3	421,908.88	1,716,574.12	39° 39' 14.485 N	80° 30' 23.900 W
10,852.0	89.11	154.74	7,599.6	-2,158.5	537.5	421,823.28	1,716,615.28	39° 39' 13.643 N	80° 30' 23.362 W
10,948.0	89.18	155.38	7,601.0	-2,245.5	578.0	421,736.24	1,716,655.76	39° 39' 12.788 N	80° 30' 22.832 W
11,043.0	89.08	156.42	7,602.5	-2,332.2	616.7	421,649.53	1,716,694.55	39° 39' 11.935 N	80° 30' 22.324 W
11,138.0	89.01	152.74	7,604.1	-2,418.0	657.5	421,563.75	1,716,735.31	39° 39' 11.092 N	80° 30' 21.790 W
11,233.0	89.11	154.27	7,605.6	-2,503.0	699.9	421,478.75	1,716,777.69	39° 39' 10.256 N	80° 30' 21.236 W
11,329.0	89.58	153.76	7,606.7	-2,589.3	741.9	421,392.46	1,716,819.75	39° 39' 9.408 N	80° 30' 20.686 W
11,425.0	89.38	153.87	7,607.6	-2,675.4	784.3	421,306.31	1,716,862.11	39° 39' 8.562 N	80° 30' 20.132 W
11,519.0	89.95	156.35	7,608.1	-2,760.7	823.9	421,221.05	1,716,901.66	39° 39' 7.723 N	80° 30' 19.614 W
11,614.0	90.08	154.93	7,608.1	-2,847.2	863.0	421,134.51	1,716,940.85	39° 39' 6.872 N	80° 30' 19.101 W
11,710.0	89.85	154.87	7,608.2	-2,934.2	903.8	421,047.58	1,716,981.57	39° 39' 6.018 N	80° 30' 18.568 W
11,806.0	88.98	155.50	7,609.2	-3,021.3	944.1	420,960.45	1,717,021.86	39° 39' 5.161 N	80° 30' 18.041 W
11,901.0	89.88	154.55	7,610.1	-3,107.4	984.2	420,874.34	1,717,061.97	39° 39' 4.314 N	80° 30' 17.515 W
11,996.0	89.04	154.72	7,611.0	-3,193.3	1,024.9	420,788.50	1,717,102.66	39° 39' 3.471 N	80° 30' 16.983 W
12,091.0	89.61	154.88	7,612.1	-3,279.2	1,065.3	420,702.55	1,717,143.11	39° 39' 2.626 N	80° 30' 16.454 W
12,185.0	89.55	154.77	7,612.8	-3,364.3	1,105.3	420,617.48	1,717,183.09	39° 39' 1.789 N	80° 30' 15.930 W
12,280.0	89.71	155.69	7,613.4	-3,450.5	1,145.1	420,531.22	1,717,222.89	39° 39' 0.941 N	80° 30' 15.409 W
12,375.0	89.31	155.59	7,614.2	-3,537.1	1,184.3	420,444.68	1,717,262.08	39° 39' 0.090 N	80° 30' 14.896 W
12,469.0	89.98	154.86	7,614.8	-3,622.4	1,223.7	420,359.34	1,717,301.47	39° 38' 59.251 N	80° 30' 14.380 W
12,564.0	90.15	154.99	7,614.7	-3,708.5	1,263.9	420,273.29	1,717,341.73	39° 38' 58.405 N	80° 30' 13.853 W
12,659.0	89.21	156.00	7,615.2	-3,794.9	1,303.3	420,186.85	1,717,381.13	39° 38' 57.555 N	80° 30' 13.337 W
12,754.0	89.21	154.43	7,616.5	-3,881.1	1,343.1	420,100.61	1,717,420.95	39° 38' 56.707 N	80° 30' 12.816 W
12,848.0	90.18	156.30	7,617.0	-3,966.6	1,382.3	420,015.17	1,717,460.13	39° 38' 55.867 N	80° 30' 12.302 W
12,943.0	89.31	154.60	7,617.5	-4,053.0	1,421.8	419,928.77	1,717,499.60	39° 38' 55.018 N	80° 30' 11.786 W
13,038.0	89.71	154.34	7,618.3	-4,138.7	1,462.7	419,843.05	1,717,540.54	39° 38' 54.175 N	80° 30' 11.260 W
13,132.0	89.51	155.56	7,618.9	-4,223.9	1,502.5	419,757.89	1,717,580.34	39° 38' 53.338 N	80° 30' 10.729 W
13,227.0	89.58	155.65	7,619.7	-4,310.4	1,541.8	419,671.38	1,717,619.58	39° 38' 52.487 N	80° 30' 10.215 W
13,320.0	89.04	155.64	7,620.8	-4,395.1	1,580.1	419,586.66	1,717,657.92	39° 38' 51.654 N	80° 30' 9.713 W
13,414.0	89.41	155.36	7,622.1	-4,480.6	1,619.1	419,501.13	1,717,696.90	39° 38' 50.813 N	80° 30' 9.202 W
13,509.0	88.87	155.53	7,623.5	-4,567.0	1,658.6	419,414.73	1,717,736.38	39° 38' 49.964 N	80° 30' 8.685 W
13,604.0	88.84	154.25	7,625.4	-4,653.0	1,698.9	419,328.73	1,717,776.68	39° 38' 49.118 N	80° 30' 8.158 W
13,699.0	89.65	155.32	7,626.6	-4,739.0	1,739.3	419,242.79	1,717,817.15	39° 38' 48.273 N	80° 30' 7.628 W
13,794.0	90.28	154.28	7,626.7	-4,824.9	1,779.8	419,156.83	1,717,857.60	39° 38' 47.428 N	80° 30' 7.099 W
13,888.0	89.88	155.02	7,626.6	-4,909.9	1,820.0	419,071.89	1,717,897.84	39° 38' 46.593 N	80° 30' 6.572 W
13,984.0	90.08	155.73	7,626.6	-4,997.1	1,860.0	418,984.62	1,717,937.84	39° 38' 45.735 N	80° 30' 6.048 W
14,078.0	89.68	155.90	7,626.8	-5,082.9	1,898.5	418,898.87	1,717,976.35	39° 38' 44.892 N	80° 30' 5.544 W
14,172.0	90.42	155.44	7,626.7	-5,168.5	1,937.3	418,813.22	1,718,015.08	39° 38' 44.049 N	80° 30' 5.037 W
14,267.0	89.51	154.77	7,626.8	-5,254.7	1,977.3	418,727.05	1,718,055.07	39° 38' 43.202 N	80° 30' 4.513 W
14,362.0	89.41	156.10	7,627.7	-5,341.1	2,016.8	418,640.65	1,718,094.56	39° 38' 42.353 N	80° 30' 3.996 W
14,458.0	89.61	154.39	7,628.5	-5,428.3	2,057.0	418,553.48	1,718,134.76	39° 38' 41.496 N	80° 30' 3.470 W
14,552.0	89.48	154.19	7,629.2	-5,513.0	2,097.7	418,468.79	1,718,175.53	39° 38' 40.663 N	80° 30' 2.936 W

Survey Report - Geographic

Company:	EQT PRODUCTION	Local Co-ordinate Reference:	Well Hallibu 8H L-003978 - Slot Hallibu 8H SHL
Project:	Wetzel County, WV	TVD Reference:	KB@28 @ 1368.0usft
Site:	Hallibu Pad (Bottom Hole)	MD Reference:	KB@28 @ 1368.0usft
Well:	Hallibu 8H L-003978	North Reference:	Grid
Wellbore:	Main	Survey Calculation Method:	Minimum Curvature
Design:	Hallibu 8H 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
14,648.0	89.27	155.16	7,630.3	-5,599.7	2,138.8	418,382.02	1,718,216.60	39° 38' 39.810 N	80° 30' 2.399 W
14,743.0	89.85	154.24	7,631.0	-5,685.6	2,179.4	418,296.13	1,718,257.19	39° 38' 38.966 N	80° 30' 1.868 W
14,838.0	89.64	154.89	7,631.4	-5,771.4	2,220.2	418,210.34	1,718,297.99	39° 38' 38.122 N	80° 30' 1.334 W
14,933.0	90.58	155.61	7,631.3	-5,857.7	2,260.0	418,124.07	1,718,337.77	39° 38' 37.274 N	80° 30' 0.814 W
15,028.0	89.81	154.66	7,630.9	-5,943.9	2,299.9	418,037.88	1,718,377.71	39° 38' 36.427 N	80° 30' 0.291 W
15,123.0	89.51	157.01	7,631.5	-6,030.5	2,338.8	417,951.21	1,718,416.60	39° 38' 35.574 N	80° 29' 59.781 W
15,217.0	90.21	154.41	7,631.7	-6,116.2	2,377.5	417,865.54	1,718,455.26	39° 38' 34.732 N	80° 29' 59.275 W
15,311.0	90.62	155.67	7,631.0	-6,201.4	2,417.1	417,780.33	1,718,494.93	39° 38' 33.894 N	80° 29' 58.756 W
15,406.0	90.52	154.70	7,630.1	-6,287.7	2,457.0	417,694.10	1,718,534.79	39° 38' 33.046 N	80° 29' 58.234 W
15,500.0	89.85	154.17	7,629.8	-6,372.4	2,497.5	417,609.31	1,718,575.36	39° 38' 32.213 N	80° 29' 57.703 W
15,595.0	89.98	154.89	7,629.9	-6,458.2	2,538.4	417,523.54	1,718,616.21	39° 38' 31.370 N	80° 29' 57.169 W
15,689.0	90.82	154.97	7,629.3	-6,543.4	2,578.2	417,438.40	1,718,656.04	39° 38' 30.532 N	80° 29' 56.648 W
15,785.0	90.11	155.08	7,628.5	-6,630.4	2,618.8	417,351.38	1,718,696.57	39° 38' 29.677 N	80° 29' 56.117 W
15,879.0	90.15	154.67	7,628.3	-6,715.5	2,658.7	417,266.27	1,718,736.48	39° 38' 28.840 N	80° 29' 55.595 W
15,973.0	90.25	155.31	7,628.0	-6,800.7	2,698.4	417,181.09	1,718,776.22	39° 38' 28.003 N	80° 29' 55.075 W
16,068.0	90.41	155.28	7,627.4	-6,887.0	2,738.1	417,094.79	1,718,815.93	39° 38' 27.154 N	80° 29' 54.555 W
16,162.0	90.01	155.17	7,627.1	-6,972.3	2,777.5	417,009.44	1,718,855.32	39° 38' 26.315 N	80° 29' 54.039 W
16,257.0	90.18	154.05	7,626.9	-7,058.1	2,818.2	416,923.62	1,718,896.05	39° 38' 25.471 N	80° 29' 53.506 W
16,352.0	90.38	155.75	7,626.4	-7,144.2	2,858.5	416,837.59	1,718,936.35	39° 38' 24.625 N	80° 29' 52.979 W
16,446.0	90.14	155.79	7,626.0	-7,229.9	2,897.1	416,751.87	1,718,974.93	39° 38' 23.782 N	80° 29' 52.474 W
16,541.0	90.01	154.44	7,625.9	-7,316.1	2,937.1	416,665.70	1,719,014.90	39° 38' 22.935 N	80° 29' 51.951 W
16,637.0	89.44	154.24	7,626.4	-7,402.6	2,978.7	416,579.16	1,719,056.47	39° 38' 22.085 N	80° 29' 51.407 W
16,731.0	91.89	158.65	7,625.3	-7,488.7	3,016.2	416,493.03	1,719,094.02	39° 38' 21.237 N	80° 29' 50.915 W
16,826.0	91.19	155.03	7,622.7	-7,576.0	3,053.6	416,405.73	1,719,131.37	39° 38' 20.379 N	80° 29' 50.425 W
16,921.0	90.58	155.32	7,621.2	-7,662.2	3,093.4	416,319.52	1,719,171.25	39° 38' 19.531 N	80° 29' 49.903 W
17,016.0	91.08	155.38	7,619.9	-7,748.6	3,133.1	416,233.19	1,719,210.86	39° 38' 18.682 N	80° 29' 49.384 W
17,110.0	90.85	155.03	7,618.3	-7,833.9	3,172.5	416,147.87	1,719,250.28	39° 38' 17.843 N	80° 29' 48.868 W
17,204.0	90.68	154.20	7,617.0	-7,918.8	3,212.8	416,062.95	1,719,290.57	39° 38' 17.008 N	80° 29' 48.341 W
17,298.0	91.12	153.62	7,615.5	-8,003.2	3,254.1	415,978.54	1,719,331.91	39° 38' 16.179 N	80° 29' 47.801 W
17,393.0	90.68	154.01	7,614.1	-8,088.5	3,296.0	415,893.30	1,719,373.82	39° 38' 15.341 N	80° 29' 47.253 W
17,488.0	90.58	154.40	7,613.0	-8,174.0	3,337.4	415,807.77	1,719,415.16	39° 38' 14.500 N	80° 29' 46.713 W
17,583.0	90.48	154.08	7,612.1	-8,259.5	3,378.6	415,722.22	1,719,456.45	39° 38' 13.659 N	80° 29' 46.173 W
17,678.0	89.98	153.43	7,611.8	-8,344.7	3,420.6	415,637.01	1,719,498.45	39° 38' 12.822 N	80° 29' 45.624 W
17,773.0	90.45	154.92	7,611.4	-8,430.3	3,462.0	415,551.50	1,719,539.84	39° 38' 11.981 N	80° 29' 45.083 W
17,867.0	90.71	154.30	7,610.4	-8,515.2	3,502.3	415,466.59	1,719,580.14	39° 38' 11.146 N	80° 29' 44.556 W
17,962.0	90.28	153.66	7,609.6	-8,600.5	3,544.0	415,381.22	1,719,621.81	39° 38' 10.307 N	80° 29' 44.011 W
18,056.0	91.82	157.83	7,607.9	-8,686.2	3,582.6	415,295.55	1,719,660.41	39° 38' 9.465 N	80° 29' 43.505 W
18,150.0	90.95	155.77	7,605.6	-8,772.6	3,619.6	415,209.19	1,719,697.43	39° 38' 8.615 N	80° 29' 43.020 W
18,244.0	91.05	153.51	7,604.0	-8,857.5	3,659.9	415,124.26	1,719,737.68	39° 38' 7.780 N	80° 29' 42.493 W
18,338.0	91.52	154.43	7,601.9	-8,941.9	3,701.1	415,039.82	1,719,778.92	39° 38' 6.950 N	80° 29' 41.954 W
18,433.0	90.34	153.54	7,600.3	-9,027.3	3,742.8	414,954.46	1,719,820.58	39° 38' 6.111 N	80° 29' 41.410 W
18,527.0	90.88	154.72	7,599.3	-9,111.9	3,783.8	414,869.89	1,719,861.60	39° 38' 5.280 N	80° 29' 40.874 W
18,622.0	91.05	155.01	7,597.7	-9,197.9	3,824.1	414,783.89	1,719,901.94	39° 38' 4.434 N	80° 29' 40.346 W
18,716.0	91.15	154.22	7,595.9	-9,282.8	3,864.4	414,698.99	1,719,942.23	39° 38' 3.600 N	80° 29' 39.819 W
18,811.0	92.33	155.66	7,593.0	-9,368.8	3,904.6	414,612.97	1,719,982.45	39° 38' 2.754 N	80° 29' 39.293 W
18,905.0	92.02	154.48	7,589.5	-9,454.0	3,944.2	414,527.79	1,720,022.04	39° 38' 1.916 N	80° 29' 38.775 W
19,000.0	92.12	155.45	7,586.0	-9,540.0	3,984.4	414,441.78	1,720,062.22	39° 38' 1.071 N	80° 29' 38.249 W
19,094.0	92.23	154.96	7,582.5	-9,625.3	4,023.8	414,356.50	1,720,101.61	39° 38' 0.232 N	80° 29' 37.733 W
19,188.0	91.25	155.03	7,579.6	-9,710.4	4,063.5	414,271.36	1,720,141.33	39° 37' 59.395 N	80° 29' 37.214 W
19,283.0	91.82	155.56	7,577.1	-9,796.7	4,103.2	414,185.08	1,720,181.02	39° 37' 58.547 N	80° 29' 36.694 W
19,377.0	91.12	155.86	7,574.7	-9,882.3	4,141.9	414,099.43	1,720,219.67	39° 37' 57.704 N	80° 29' 36.188 W
19,471.0	90.98	155.03	7,572.9	-9,967.8	4,180.9	414,013.95	1,720,258.73	39° 37' 56.864 N	80° 29' 35.677 W
19,566.0	91.22	155.18	7,571.1	-10,054.0	4,220.9	413,927.79	1,720,298.71	39° 37' 56.017 N	80° 29' 35.154 W
19,661.0	90.82	155.26	7,569.4	-10,140.2	4,260.7	413,841.55	1,720,338.52	39° 37' 55.169 N	80° 29' 34.633 W
19,756.0	90.38	154.76	7,568.4	-10,226.3	4,300.8	413,755.45	1,720,378.65	39° 37' 54.322 N	80° 29' 34.107 W

Survey Report - Geographic

Company:	EQT PRODUCTION	Local Co-ordinate Reference:	Well Hallibu 8H L-003978 - Slot Hallibu 8H SHL
Project:	Wetzel County, WV	TVD Reference:	KB@28 @ 1368.0usft
Site:	Hallibu Pad (Bottom Hole)	MD Reference:	KB@28 @ 1368.0usft
Well:	Hallibu 8H L-003978	North Reference:	Grid
Wellbore:	Main	Survey Calculation Method:	Minimum Curvature
Design:	Hallibu 8H 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
19,851.0	90.01	155.66	7,568.1	-10,312.5	4,340.7	413,669.21	1,720,418.48	39° 37' 53.474 N	80° 29' 33.586 W
19,946.0	89.84	155.13	7,568.2	-10,398.9	4,380.2	413,582.83	1,720,458.04	39° 37' 52.625 N	80° 29' 33.068 W
20,040.0	90.14	154.82	7,568.3	-10,484.1	4,420.0	413,497.66	1,720,497.80	39° 37' 51.787 N	80° 29' 32.548 W
20,135.0	90.24	155.05	7,567.9	-10,570.1	4,460.2	413,411.61	1,720,538.05	39° 37' 50.941 N	80° 29' 32.022 W
20,229.0	90.41	155.01	7,567.4	-10,655.4	4,499.9	413,326.39	1,720,577.73	39° 37' 50.103 N	80° 29' 31.503 W
20,324.0	90.78	154.75	7,566.4	-10,741.4	4,540.2	413,240.38	1,720,618.06	39° 37' 49.258 N	80° 29' 30.975 W
20,418.0	90.45	154.90	7,565.4	-10,826.4	4,580.2	413,155.32	1,720,658.04	39° 37' 48.421 N	80° 29' 30.452 W
20,514.0	90.48	155.03	7,564.6	-10,913.4	4,620.9	413,068.34	1,720,698.66	39° 37' 47.566 N	80° 29' 29.921 W
20,608.0	90.28	154.17	7,564.0	-10,998.3	4,661.2	412,983.43	1,720,738.98	39° 37' 46.732 N	80° 29' 29.393 W
20,703.0	90.08	155.11	7,563.7	-11,084.2	4,701.9	412,897.58	1,720,779.67	39° 37' 45.888 N	80° 29' 28.861 W
20,798.0	90.38	154.48	7,563.3	-11,170.1	4,742.3	412,811.63	1,720,820.13	39° 37' 45.042 N	80° 29' 28.332 W
20,894.0	90.01	155.45	7,563.0	-11,257.1	4,782.9	412,724.65	1,720,860.75	39° 37' 44.187 N	80° 29' 27.801 W
20,989.0	90.31	154.71	7,562.7	-11,343.3	4,823.0	412,638.50	1,720,900.78	39° 37' 43.340 N	80° 29' 27.277 W
21,083.0	89.84	155.16	7,562.6	-11,428.4	4,862.8	412,553.35	1,720,940.60	39° 37' 42.503 N	80° 29' 26.756 W
21,177.0	90.21	154.70	7,562.6	-11,513.5	4,902.6	412,468.21	1,720,980.43	39° 37' 41.666 N	80° 29' 26.235 W
21,272.0	90.01	154.83	7,562.4	-11,599.5	4,943.1	412,382.27	1,721,020.93	39° 37' 40.821 N	80° 29' 25.705 W
21,367.0	90.04	154.68	7,562.3	-11,685.4	4,983.6	412,296.35	1,721,061.45	39° 37' 39.976 N	80° 29' 25.175 W
21,461.0	89.88	154.75	7,562.4	-11,770.4	5,023.8	412,211.35	1,721,101.60	39° 37' 39.141 N	80° 29' 24.650 W
21,556.0	89.84	155.50	7,562.6	-11,856.6	5,063.7	412,125.17	1,721,141.56	39° 37' 38.293 N	80° 29' 24.127 W
21,650.0	90.11	154.94	7,562.7	-11,941.9	5,103.1	412,039.82	1,721,180.96	39° 37' 37.454 N	80° 29' 23.612 W
21,744.0	90.04	154.63	7,562.6	-12,027.0	5,143.2	411,954.78	1,721,221.00	39° 37' 36.618 N	80° 29' 23.088 W
21,839.0	89.71	155.14	7,562.8	-12,113.0	5,183.5	411,868.76	1,721,261.32	39° 37' 35.772 N	80° 29' 22.561 W
21,934.0	89.20	154.08	7,563.7	-12,198.8	5,224.2	411,782.94	1,721,302.05	39° 37' 34.928 N	80° 29' 22.028 W
22,028.0	89.20	155.16	7,565.0	-12,283.7	5,264.5	411,698.02	1,721,342.34	39° 37' 34.093 N	80° 29' 21.501 W
22,123.0	88.84	155.06	7,566.6	-12,369.9	5,304.5	411,611.86	1,721,382.32	39° 37' 33.246 N	80° 29' 20.978 W
22,218.0	89.51	154.69	7,568.0	-12,455.9	5,344.8	411,525.86	1,721,422.65	39° 37' 32.401 N	80° 29' 20.451 W
22,312.0	88.97	155.37	7,569.2	-12,541.1	5,384.5	411,440.65	1,721,462.33	39° 37' 31.563 N	80° 29' 19.931 W
22,407.0	89.17	154.39	7,570.8	-12,627.1	5,424.8	411,354.65	1,721,502.65	39° 37' 30.717 N	80° 29' 19.404 W
22,501.0	89.41	154.83	7,571.9	-12,712.0	5,465.1	411,269.74	1,721,542.95	39° 37' 29.882 N	80° 29' 18.877 W
22,595.0	88.73	153.78	7,573.5	-12,796.7	5,505.9	411,185.04	1,721,583.70	39° 37' 29.050 N	80° 29' 18.344 W
22,691.0	89.34	155.10	7,575.1	-12,883.3	5,547.3	411,098.45	1,721,625.11	39° 37' 28.199 N	80° 29' 17.803 W
22,785.0	88.16	155.11	7,577.1	-12,968.5	5,586.9	411,013.21	1,721,664.67	39° 37' 27.360 N	80° 29' 17.285 W
22,880.0	86.92	154.69	7,581.2	-13,054.5	5,627.1	410,927.26	1,721,704.94	39° 37' 26.515 N	80° 29' 16.759 W
22,974.0	87.73	155.72	7,585.6	-13,139.7	5,666.5	410,842.02	1,721,744.31	39° 37' 25.677 N	80° 29' 16.244 W
23,069.0	87.35	154.44	7,589.7	-13,225.8	5,706.5	410,755.95	1,721,784.30	39° 37' 24.831 N	80° 29' 15.720 W
23,164.0	89.20	157.30	7,592.5	-13,312.5	5,745.3	410,669.30	1,721,823.12	39° 37' 23.979 N	80° 29' 15.212 W
23,259.0	88.06	155.51	7,594.8	-13,399.5	5,783.3	410,582.27	1,721,861.13	39° 37' 23.123 N	80° 29' 14.714 W
23,355.0	87.96	155.38	7,598.1	-13,486.7	5,823.2	410,495.01	1,721,901.00	39° 37' 22.265 N	80° 29' 14.193 W
23,450.0	87.92	154.74	7,601.6	-13,572.8	5,863.2	410,408.92	1,721,941.03	39° 37' 21.418 N	80° 29' 13.669 W
23,545.0	87.89	154.91	7,605.0	-13,658.8	5,903.6	410,323.00	1,721,981.41	39° 37' 20.573 N	80° 29' 13.141 W
23,640.0	87.56	154.96	7,608.8	-13,744.7	5,943.8	410,237.02	1,722,021.63	39° 37' 19.728 N	80° 29' 12.615 W
23,734.0	87.62	154.71	7,612.7	-13,829.7	5,983.8	410,152.02	1,722,061.57	39° 37' 18.892 N	80° 29' 12.092 W
23,829.0	87.49	154.55	7,616.8	-13,915.5	6,024.4	410,066.26	1,722,102.23	39° 37' 18.049 N	80° 29' 11.561 W
23,924.0	87.82	155.16	7,620.7	-14,001.4	6,064.8	409,980.33	1,722,142.56	39° 37' 17.204 N	80° 29' 11.033 W
24,018.0	87.42	154.73	7,624.6	-14,086.5	6,104.5	409,895.25	1,722,182.34	39° 37' 16.368 N	80° 29' 10.513 W
24,113.0	87.02	154.76	7,629.2	-14,172.3	6,145.0	409,809.43	1,722,222.82	39° 37' 15.524 N	80° 29' 9.984 W
24,208.0	85.91	154.69	7,635.1	-14,258.1	6,185.5	409,723.69	1,722,263.31	39° 37' 14.681 N	80° 29' 9.454 W
24,302.0	86.11	154.80	7,641.6	-14,342.9	6,225.5	409,638.88	1,722,303.31	39° 37' 13.847 N	80° 29' 8.931 W
24,397.0	86.14	155.15	7,648.0	-14,428.8	6,265.6	409,553.00	1,722,343.41	39° 37' 13.003 N	80° 29' 8.407 W
24,491.0	86.31	154.95	7,654.2	-14,513.8	6,305.2	409,467.95	1,722,382.97	39° 37' 12.166 N	80° 29' 7.889 W
24,586.0	86.28	154.72	7,660.3	-14,599.6	6,345.5	409,382.15	1,722,423.28	39° 37' 11.323 N	80° 29' 7.362 W
24,681.0	86.38	154.94	7,666.4	-14,685.4	6,385.8	409,296.35	1,722,463.61	39° 37' 10.479 N	80° 29' 6.835 W
24,776.0	85.91	155.28	7,672.8	-14,771.4	6,425.7	409,210.37	1,722,503.50	39° 37' 9.634 N	80° 29' 6.313 W
24,871.0	86.38	155.38	7,679.2	-14,857.5	6,465.3	409,124.23	1,722,543.06	39° 37' 8.787 N	80° 29' 5.795 W
24,967.0	85.64	154.02	7,685.9	-14,944.1	6,506.2	409,037.65	1,722,583.99	39° 37' 7.935 N	80° 29' 5.260 W

Survey Report - Geographic

Company:	EQT PRODUCTION	Local Co-ordinate Reference:	Well Hallibu 8H L-003978 - Slot Hallibu 8H SHL
Project:	Wetzel County, WV	TVD Reference:	KB@28 @ 1368.0usft
Site:	Hallibu Pad (Bottom Hole)	MD Reference:	KB@28 @ 1368.0usft
Well:	Hallibu 8H L-003978	North Reference:	Grid
Wellbore:	Main	Survey Calculation Method:	Minimum Curvature
Design:	Hallibu 8H 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
25,062.0	83.71	154.88	7,694.7	-15,029.4	6,547.0	408,952.32	1,722,624.78	39° 37' 7.096 N	80° 29' 4.727 W
25,156.0	81.65	154.79	7,706.7	-15,113.8	6,586.6	408,867.94	1,722,664.42	39° 37' 6.267 N	80° 29' 4.209 W
25,252.0	81.82	155.24	7,720.5	-15,199.9	6,626.7	408,781.83	1,722,704.55	39° 37' 5.420 N	80° 29' 3.684 W
25,347.0	82.57	154.36	7,733.4	-15,285.1	6,666.8	408,696.67	1,722,744.63	39° 37' 4.583 N	80° 29' 3.160 W
25,442.0	84.12	154.30	7,744.4	-15,370.1	6,707.7	408,611.62	1,722,785.50	39° 37' 3.747 N	80° 29' 2.626 W
25,537.0	83.75	154.33	7,754.4	-15,455.3	6,748.6	408,526.49	1,722,826.45	39° 37' 2.910 N	80° 29' 2.090 W
25,632.0	83.07	154.43	7,765.3	-15,540.4	6,789.4	408,441.39	1,722,867.25	39° 37' 2.073 N	80° 29' 1.557 W
25,726.0	85.70	154.59	7,774.5	-15,624.8	6,829.7	408,356.96	1,722,907.51	39° 37' 1.243 N	80° 29' 1.031 W
25,821.0	87.05	154.24	7,780.5	-15,710.3	6,870.6	408,271.45	1,722,948.45	39° 37' 0.402 N	80° 29' 0.496 W
25,916.0	86.04	154.37	7,786.2	-15,795.8	6,911.8	408,186.00	1,722,989.56	39° 36' 59.562 N	80° 28' 59.958 W
26,011.0	85.26	155.51	7,793.5	-15,881.6	6,951.9	408,100.19	1,723,029.69	39° 36' 58.719 N	80° 28' 59.434 W
26,106.0	84.96	155.98	7,801.6	-15,967.9	6,990.8	408,013.89	1,723,068.57	39° 36' 57.870 N	80° 28' 58.925 W
26,201.0	84.93	155.67	7,809.9	-16,054.2	7,029.5	407,927.56	1,723,107.32	39° 36' 57.021 N	80° 28' 58.418 W
26,296.0	85.84	155.57	7,817.6	-16,140.4	7,068.6	407,841.32	1,723,146.41	39° 36' 56.173 N	80° 28' 57.906 W
26,392.0	89.87	156.70	7,821.2	-16,228.2	7,107.4	407,753.60	1,723,185.21	39° 36' 55.310 N	80° 28' 57.398 W
26,486.0	90.34	154.93	7,821.0	-16,313.9	7,145.9	407,667.86	1,723,223.72	39° 36' 54.467 N	80° 28' 56.894 W
26,582.0	90.00	155.15	7,820.7	-16,400.9	7,186.4	407,580.82	1,723,264.23	39° 36' 53.611 N	80° 28' 56.364 W
26,677.0	89.70	154.72	7,821.0	-16,487.0	7,226.7	407,494.77	1,723,304.48	39° 36' 52.765 N	80° 28' 55.838 W
Deepest Point in Wellbore @ 26677' MD/ 7821' TVD									
26,773.0	90.87	155.72	7,820.5	-16,574.1	7,266.9	407,407.61	1,723,344.71	39° 36' 51.908 N	80° 28' 55.312 W
26,868.0	90.27	155.57	7,819.5	-16,660.7	7,306.1	407,321.07	1,723,383.89	39° 36' 51.057 N	80° 28' 54.799 W
26,963.0	90.60	155.60	7,818.8	-16,747.2	7,345.3	407,234.57	1,723,423.16	39° 36' 50.206 N	80° 28' 54.285 W
27,058.0	91.34	155.50	7,817.2	-16,833.7	7,384.7	407,148.10	1,723,462.47	39° 36' 49.356 N	80° 28' 53.771 W
27,152.0	91.95	155.61	7,814.5	-16,919.2	7,423.5	407,062.57	1,723,501.35	39° 36' 48.514 N	80° 28' 53.262 W
27,248.0	90.97	154.62	7,812.1	-17,006.2	7,463.9	406,975.51	1,723,541.74	39° 36' 47.658 N	80° 28' 52.734 W
27,342.0	89.83	154.10	7,811.4	-17,091.0	7,504.6	406,890.77	1,723,582.41	39° 36' 46.825 N	80° 28' 52.202 W
27,436.0	89.56	154.99	7,811.9	-17,175.9	7,545.0	406,805.90	1,723,622.81	39° 36' 45.991 N	80° 28' 51.674 W
27,530.0	89.53	154.61	7,812.6	-17,260.9	7,585.0	406,720.85	1,723,662.83	39° 36' 45.155 N	80° 28' 51.151 W
27,624.0	90.30	154.27	7,812.8	-17,345.7	7,625.6	406,636.05	1,723,703.39	39° 36' 44.321 N	80° 28' 50.621 W
27,719.0	89.50	154.86	7,813.0	-17,431.5	7,666.4	406,550.26	1,723,744.19	39° 36' 43.477 N	80° 28' 50.088 W
27,747.0	88.93	154.15	7,813.3	-17,456.8	7,678.4	406,524.98	1,723,756.24	39° 36' 43.229 N	80° 28' 49.930 W
27,769.0	88.93	154.15	7,813.7	-17,476.6	7,688.0	406,505.19	1,723,765.83	39° 36' 43.034 N	80° 28' 49.805 W

TD @ 27769' MD/ 7814' TVD

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Hallibu 8H BHL	0.00	360.00	7,570.0	-17,478.8	7,685.4	406,502.96	1,723,763.21	39° 36' 43.012 N	80° 28' 49.838 W
- hit/miss target									
- Shape									
- actual wellpath misses target center by 243.7usft at 27765.3usft MD (7813.7 TVD, -17473.3 N, 7686.4 E)									
- Point									
Hallibu 8H LP Pushed	0.00	0.00	7,570.0	290.3	-601.3	424,272.09	1,715,476.54	39° 39' 37.719 N	80° 30' 38.273 W
- hit/miss target									
- Shape									
- actual wellpath misses target center by 16.1usft at 8151.6usft MD (7555.5 TVD, 292.0 N, -594.5 E)									
- Point									

Survey Report - Geographic

Company:	EQT PRODUCTION	Local Co-ordinate Reference:	Well Hallibu 8H L-003978 - Slot Hallibu 8H SHL
Project:	Wetzel County, WV	TVD Reference:	KB@28 @ 1368.0usft
Site:	Hallibu Pad (Bottom Hole)	MD Reference:	KB@28 @ 1368.0usft
Well:	Hallibu 8H L-003978	North Reference:	Grid
Wellbore:	Main	Survey Calculation Method:	Minimum Curvature
Design:	Hallibu 8H As Drilled	Database:	EQT

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,759.0	2,759.0	3.4	4.4	KOP1 2759' MD/ 2759' TVD
6,960.0	6,768.4	889.3	-806.3	KOP2 @ 6960' MD/ 6768.4' TVD
8,044.4	7,546.4	390.0	-637.1	Top of Marcellus @ 8044.4' MD/ 7546.4' TVD
8,478.0	7,574.1	-6.5	-464.0	Land @ 89.5° 8478' MD/ 7574' TVD
26,677.0	7,821.0	-16,487.0	7,226.7	Deepest Point in Wellbore @ 26677' MD/ 7821' TVD
27,769.0	7,813.7	-17,476.6	7,688.0	TD @ 27769' MD/ 7814' TVD

Checked By: _____ Approved By: _____ Date: _____



Hallibu Pad (Btm Hole)
Hallibu 8H L-003978
QT_Pat294_Hallibu 8H_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 8H L-003978

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.0	0.0	423981.76	1716077.81	39° 39' 34.916 N	80° 30' 30.543 W	Hallibu 8H SHL

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
6863.0	21.79	312.57	6677.6	867.0	-780.5	0.00	0.00	-1107.9	
6943.0	21.79	312.57	6751.9	887.1	-802.4	0.00	0.00	-1135.1	
7579.9	42.12	157.56	7343.4	756.5	-808.6	9.80	-161.36	-1018.0	
8154.7	90.00	155.00	7670.0	290.3	-601.3	8.34	-3.45	-507.8	Hallibu 8H LP Pushed
27761.1	90.00	155.00	7570.0	-17478.8	7685.4	0.00	0.00	19093.8	Hallibu 8H BHL

