



Actual Wellpath Report

Hudson S-1HM AWP Proj: 20835'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT (TUG HILL OPERATING, LLC)	Well	Hudson S-1HM
Field	Marshall	API/Legal	
Facility	Hudson	Wellbore	Hudson S-1HM AWB
Slot	Slot 01		

REPORT SETUP INFORMATION			
Projection System	NAD83 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Meyedavr
Scale	0.999610	Report Generated	3/27/2024 at 11:00:14 AM
Convergence at slot	0.21° East	Database	WA_MPL_EASTERNUS_Defn

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	1732303.65	14464549.15	39°49'43.5564"N	80°40'21.7498"W
Facility Reference Pt			1732303.65	14464549.15	39°49'43.5564"N	80°40'21.7498"W
Field Reference Pt			1920470.12	14528304.49	40°00'0.0000"N	80°00'0.0000"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Patterson 294 (RKB) to Facility Vertical Datum	1374.00ft
Horizontal Reference Pt	Slot	Patterson 294 (RKB) to Mean Sea Level	1374.00ft
Vertical Reference Pt	Patterson 294 (RKB)	Patterson 294 (RKB) to Ground Level at Slot (Slot 01)	28.00ft
MD Reference Pt	Patterson 294 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	157.04°

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REFERENCE WELLPATH IDENTIFICATION
Operator: EQT (TUG HILL OPERATING, LLC)
Field: Marshall
Facility: Hudson
Slot: Slot 01
Well: Hudson S-1HM
API/Legal:
Wellbore: Hudson S-1HM AWB

WELLPATH DATA (268 stations)

Table with 14 columns: MD [ft], Inclination [°], Azimuth [°], TVD [ft], Vert Sect [ft], North [ft], East [ft], Grid East [US ft], Grid North [US ft], Latitude, Longitude, Closure Dist [ft], Closure Dir [°], DLS ["/100ft], Build Rate ["/100ft], Turn Rate ["/100ft]. Contains 268 rows of wellpath data.

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Field	Marshall	API/Legal	
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Slot	Slot 01		

HOLE & CASING SECTIONS - Ref Wellbore: Hudson S-1HM AWB Ref Wellpath: Hudson S-1HM AWP Proj: 20835'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
30in Conductor	28.00	148.00	120.00	28.00	147.99	0.00	0.00	1.16	-0.66
13.375in Casing Surface	28.00	1099.00	1071.00	28.00	1098.63	0.00	0.00	4.31	-8.98
9.625in Casing Intermediate	28.00	1495.00	1467.00	28.00	1493.88	0.00	0.00	13.52	-27.19
8.75in Open Hole	1495.00	6600.00	5105.00	1493.88	5727.03	13.52	-27.19	1614.65	-2243.56

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Hudson 1HM T1	6777.00	1041.50	-2262.68	1730040.97	14465590.64	39°49'53.9339"N	80°40'50.7157"W	point
Hudson 1HM T2	6999.50	-9938.89	4210.33	1736513.98	14454610.28	39°48'5.1406"N	80°39'28.2498"W	point

WELLPATH COMPOSITION - Ref Wellbore: Hudson S-1HM AWB Ref Wellpath: Hudson S-1HM AWP Proj: 20835'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	603.00	OWSG MWD rev2 - Standard	01 MWD<17-1/2">(173'-601')	Hudson S-1HM AWB	12/7/2023
603.00	1943.00	OWSG MWD rev2 - Standard	02 MWD<12-1/4">(618'-1943')	Hudson S-1HM AWB	12/7/2023
1943.00	6058.00	OWSG MWD rev2 - Standard	03 MWD<8-3/4">(1981-3876')	Hudson S-1HM AWB	3/17/2024
6058.00	20835.00	OWSG MWD rev2 + IFR1 + Sag + Multi-Station Correction	04 BH Lucida+SuperiorQC IFR1+Sag+FDIR <8 1/2"> (6104-20810)	Hudson S-1HM AWB	3/17/2024

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EQT (TUG HILL OPERATING, LLC)

Location: Marshall County, WV
 Field: Marshall
 Facility: Hudson

Slot: Slot 01
 Well: Hudson S-1HM
 Wellbore: Hudson S-1HM AWB



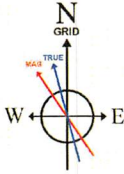
Scale 1 inch = 2500
 Easting (ft)
 -2500 -1250 0 1250 2500 3750 5000

Curve KOP : 5784.63ft TVD, 1641.70ft N, 2279.82ft W
 04_BH Lucida+SuperiorQC IFR1+Sag+FDIR <8 1/2"> : 5340.36ft TVD, 1432.14ft N, 1992.41ft W
 Marcellus : 6741.00ft TVD, 1227.18ft N, 2380.64ft W
 LP : 6785.94ft TVD, 948.90ft N, 2209.13ft W

KOP : 1295.54ft TVD, 4.42ft N, 14.77ft W

Onondaga : 6803.00ft TVD, 78.29ft S, 1602.26ft W

03 MWD<8 3/4"> : 1967.99ft TVD, 64.89ft N, 118.91ft W
 02 MWD<12 1/4"> : 617.78ft TVD, 3.71ft N, 1.80ft W
 01 MWD<17 1/2"> : 172.98ft TVD, 1.69ft N, 0.97ft W



User specified Dip: 66.25° Field: 51562.7 nT
 Magnetic North is 8.53 degrees West of True North (at 3/10/2024)
 Grid North is 0.21 degrees East of True North
 To correct azimuth from True to Grid subtract 0.21 degrees
 To correct azimuth from Magnetic to Grid subtract 8.74 degrees

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Surface Location

Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
1732303.65	14464549.15	39.8287657	-80.6727083

KOP

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	North	East	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
1296	1.94	300.2	1295.54	4.42	-14.78	1732288.87	14464553.57	39.8287779	-80.6727609

Landing Point

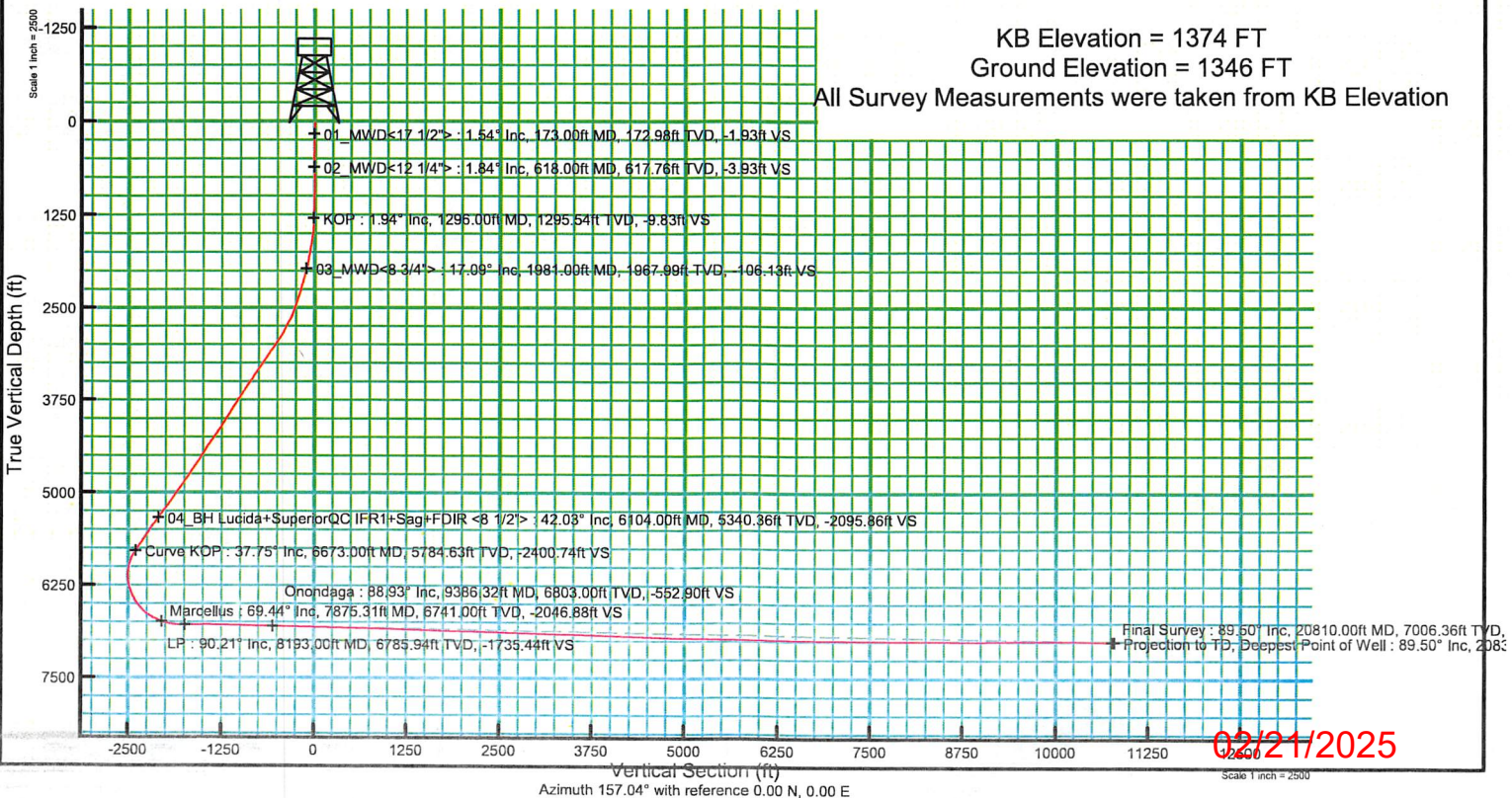
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	North	East	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
8193	90.21	149.37	6785.94	948.9	-2209.14	1730094.51	14465498.04	39.8313935	-80.6805648

Bottom Hole Location

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	North	East	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
20835	89.5	149.27	7006.58	-9936.17	4213.19	1736516.83	14454613	39.8014354	-80.657837

Projection to TD, Deepest Point of Well : 7006.58ft TVD, 9936.16ft S, 4213.20ft E
 Final Survey : 7006.36ft TVD, 9914.67ft S, 4200.43ft E

KB Elevation = 1374 FT
 Ground Elevation = 1346 FT
 All Survey Measurements were taken from KB Elevation



02/21/2025