

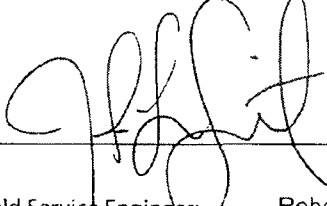
30-015-41775

2105 MARKET STREET
MIDLAND, TX 79703
24 HR (432) 694-9517

STATE OF NEW MEXICO

COUNTY OF Eddy

I, Robert Williams, Directional Driller certify that I am employed by Baker Hughes INTEQ; did conduct or supervise on the day(s) of Dec 16, 2013 through Jan 19, 2014 the taking of MWD surveys from a depth of 2,570 to a depth of 14,555 that the data is true, correct, complete and within the limitations of the tool as set forth by Baker Hughes INTEQ; that I am authorized and qualified to make this report; that this survey was conducted at the request of Matador Resources for the Rustler Breaks 12 24 27 No. 1H in Eddy County, NM; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by INTEQ.

 Josh Gilbert
Well Planner
Field Service Engineer: Robert Williams

Email Rec'd 5/30/14
B

Matador Resources

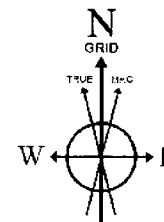
Location: Eddy County, NM
Field: (Rustler Breaks) Sec 12, T 24-S, R 27-E
Facility: Rustler Breaks 12 24 27 No. 1H

Slot: No. 1H SHL
Well: No. 1H
Wellbore: No. 1H PWB

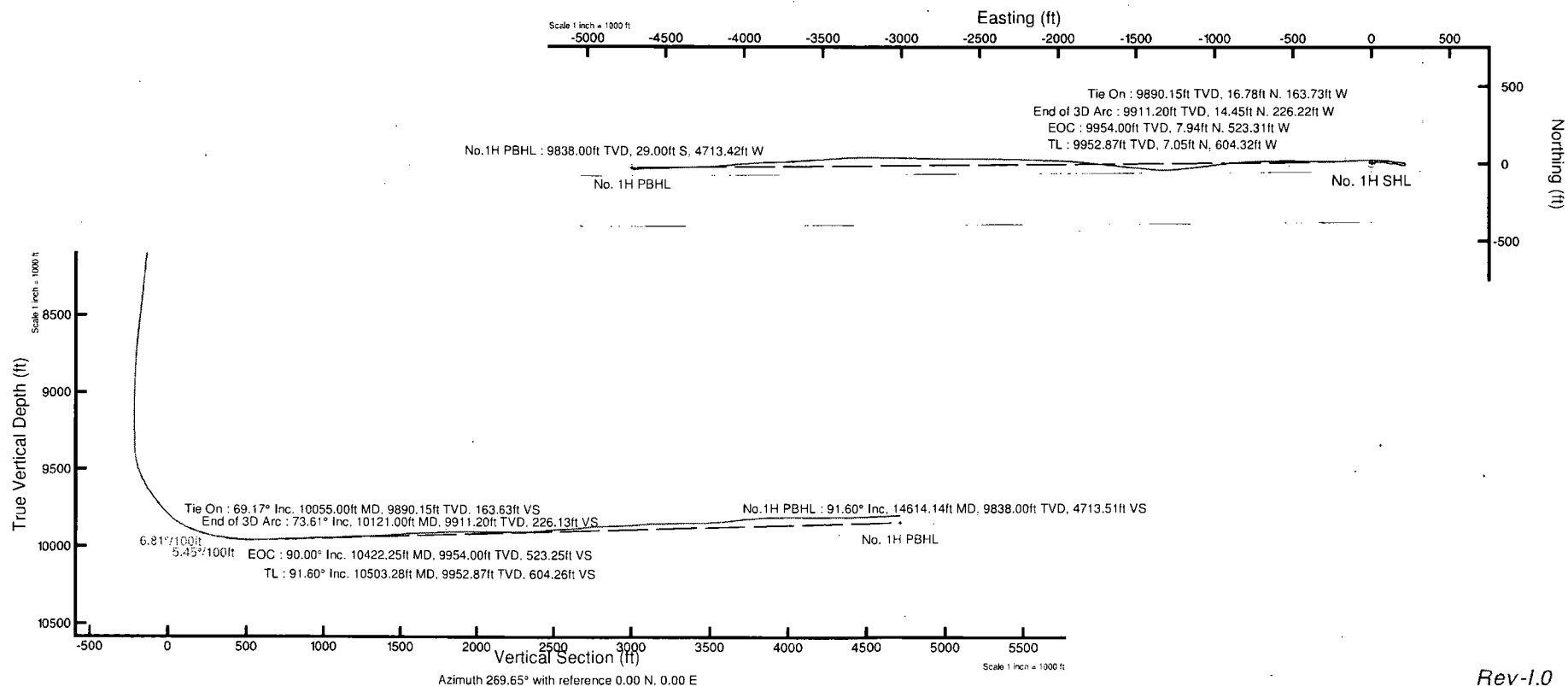


Well Profile Data									
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)	
Tie On	10055.00	69.170		267.500	9890.15	16.78	-163.73	10.50	163.63
End of 3D Arc	10121.00	73.610		268.220	9911.20	14.45	-226.22	6.81	226.13
EOC	10422.25	90.000		269.248	9954.00	7.94	-523.31	5.45	523.25
TL	10503.28	91.601		269.487	9952.87	7.05	-604.32	2.00	604.26
No. 1H PBHL	14614.14	91.501		289.497	9838.00	-29.00	-4713.42	0.00	4713.51

PLS reference wellbore to this well
 True vertical depth is referenced to Rig on No. 1H SHL (ft)
 Magnetic North is 7.66 degrees East of True North (at 12/Nov/2013)
 Grid North is 0.11 degrees East of True North
 To correct azimuth from True to Grid subtract 0.11 degrees
 To correct azimuth from Magnetic to Grid add 7.55 degrees



BGGM (1945.0 to 2014.0) Dip: 59.98° Field: 48269.9 nT
Magnetic North is 7.66 degrees East of True North (at 12/Nov/2013)
Grid North is 0.11 degrees East of True North
To correct azimuth from True to Grid subtract 0.11 degrees
To correct azimuth from Magnetic to Grid add 7.55 degrees



Rev-1.0



Actual Wellpath Report

No. 1H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Rustler Breaks) Sec 12, T 24-S, R 27-E	Wellbore	No. 1H AWB
Facility	Rustler Breaks 12 24 27 No. 1H		

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 4.0.1
North Reference	Grid	User	Gentbry
Scale	0.999913	Report Generated	1/22/2014 at 7:20:16 AM
Convergence at slot	0.11° East	Database/Source file	MidlandDB/No. 1H_AWB.xml

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	560998.00	445964.00	32°13'33.306"N	104°08'09.878"W
Facility Reference Pt			560998.00	445964.00	32°13'33.306"N	104°08'09.878"W
Field Reference Pt			152400.30	0.00	30°59'42.846"N	105°26'33.659"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 1H SHL (KB) to Facility Vertical Datum	25.00ft
Horizontal Reference Pt	Facility Center	Rig on No. 1H SHL (KB) to Mean Sea Level	3115.00ft
Vertical Reference Pt	Rig on No. 1H SHL (KB)	Rig on No. 1H SHL (KB) to Mud Line at Slot (No. 1H SHL)	25.00ft
MD Reference Pt	Rig on No. 1H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	269.65°



Actual Wellpath Report

No. 1H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Rustler Breaks) Sec 12, T 24-S, R 27-E	Wellbore	No. 1H AWB
Facility	Rustler Breaks 12 24 27 No. 1H		

WELLPATH DATA (207 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	67.420	0.00	0.00	0.00	0.00	560998.00	445964.00	32°13'33.306"N	104°08'09.878"W	0.00	
25.00	0.000	67.420	25.00	0.00	0.00	0.00	560998.00	445964.00	32°13'33.306"N	104°08'09.878"W	0.00	
390.00	0.900	67.420	389.98	-2.65	1.10	2.65	561000.65	445965.10	32°13'33.316"N	104°08'09.847"W	0.25	
650.00	0.800	163.700	649.97	-5.04	0.14	5.04	561003.04	445964.14	32°13'33.307"N	104°08'09.819"W	0.49	
839.00	0.600	127.300	838.95	-6.19	-1.72	6.20	561004.20	445962.28	32°13'33.288"N	104°08'09.806"W	0.25	
933.00	1.200	63.000	932.94	-7.46	-1.57	7.47	561005.47	445962.43	32°13'33.290"N	104°08'09.791"W	1.15	
1027.00	0.800	70.100	1026.93	-8.96	-0.90	8.96	561006.96	445963.10	32°13'33.296"N	104°08'09.774"W	0.44	
1121.00	0.400	34.900	1120.92	-9.76	-0.41	9.77	561007.77	445963.59	32°13'33.301"N	104°08'09.764"W	0.56	
1215.00	1.000	9.100	1214.92	-10.09	0.67	10.08	561008.08	445964.67	32°13'33.312"N	104°08'09.761"W	0.71	
1308.00	0.400	28.000	1307.91	-10.38	1.75	10.36	561008.36	445965.75	32°13'33.323"N	104°08'09.757"W	0.68	
1402.00	0.700	318.000	1401.91	-10.15	2.47	10.13	561008.13	445966.47	32°13'33.330"N	104°08'09.760"W	0.72	
1497.00	0.100	283.000	1496.90	-9.68	2.92	9.67	561007.66	445966.92	32°13'33.334"N	104°08'09.765"W	0.65	
1685.00	0.700	101.000	1684.90	-10.65	2.74	10.63	561008.63	445966.74	32°13'33.332"N	104°08'09.754"W	0.43	
1779.00	1.300	66.700	1778.89	-12.19	3.05	12.18	561010.18	445967.05	32°13'33.335"N	104°08'09.736"W	0.87	
1873.00	1.000	73.700	1872.87	-13.97	3.70	13.94	561011.94	445967.70	32°13'33.342"N	104°08'09.716"W	0.35	
1967.00	1.100	89.700	1966.85	-15.66	3.94	15.63	561013.63	445967.94	32°13'33.344"N	104°08'09.696"W	0.33	
2061.00	1.700	82.700	2060.82	-17.94	4.12	17.92	561015.92	445968.12	32°13'33.346"N	104°08'09.669"W	0.66	
2155.00	0.800	57.700	2154.80	-19.88	4.65	19.86	561017.85	445968.65	32°13'33.351"N	104°08'09.647"W	1.10	
2249.00	1.800	67.700	2248.77	-21.81	5.56	21.78	561019.77	445969.56	32°13'33.360"N	104°08'09.624"W	1.09	
2344.00	0.700	70.000	2343.75	-23.74	6.32	23.70	561021.70	445970.32	32°13'33.368"N	104°08'09.602"W	1.16	
2394.00	0.300	324.000	2393.75	-23.95	6.53	23.91	561021.91	445970.53	32°13'33.370"N	104°08'09.599"W	1.67	
2570.00	0.770	306.610	2569.74	-22.74	7.61	22.69	561020.69	445971.61	32°13'33.380"N	104°08'09.614"W	0.28	
2665.00	0.830	308.800	2664.73	-21.69	8.42	21.64	561019.64	445972.42	32°13'33.388"N	104°08'09.626"W	0.07	
2853.00	0.830	287.270	2852.71	-19.34	9.68	19.28	561017.28	445973.68	32°13'33.401"N	104°08'09.653"W	0.16	
3042.00	0.770	300.720	3041.69	-16.95	10.74	16.88	561014.88	445974.74	32°13'33.411"N	104°08'09.681"W	0.10	
3230.00	0.810	258.860	3229.68	-14.56	11.12	14.49	561012.49	445975.12	32°13'33.415"N	104°08'09.709"W	0.30	
3418.00	0.580	266.670	3417.66	-12.31	10.81	12.24	561010.24	445974.81	32°13'33.412"N	104°08'09.735"W	0.13	
3607.00	0.620	267.960	3606.65	-10.33	10.72	10.26	561008.26	445974.72	32°13'33.411"N	104°08'09.758"W	0.02	
3794.00	0.800	256.330	3793.64	-8.05	10.38	7.98	561005.98	445974.38	32°13'33.408"N	104°08'09.785"W	0.12	
3983.00	0.490	231.860	3982.63	-6.12	9.57	6.07	561004.06	445973.56	32°13'33.400"N	104°08'09.807"W	0.22	
4171.00	0.370	264.310	4170.62	-4.88	9.01	4.83	561002.83	445973.01	32°13'33.395"N	104°08'09.822"W	0.14	
4359.00	0.610	250.780	4358.61	-3.33	8.62	3.28	561001.28	445972.62	32°13'33.391"N	104°08'09.840"W	0.14	
4547.00	0.430	241.290	4546.61	-1.76	7.95	1.72	560999.72	445971.95	32°13'33.384"N	104°08'09.858"W	0.11	
4736.00	0.480	254.730	4735.60	-0.38	7.40	0.33	560998.33	445971.40	32°13'33.379"N	104°08'09.874"W	0.06	
4923.00	0.540	257.490	4922.59	1.24	7.00	-1.29	560996.71	445971.00	32°13'33.375"N	104°08'09.893"W	0.03	
5112.00	0.600	261.830	5111.58	3.09	6.67	-3.13	560994.87	445970.67	32°13'33.372"N	104°08'09.914"W	0.04	
5300.00	0.620	271.160	5299.57	5.09	6.55	-5.13	560992.87	445970.55	32°13'33.370"N	104°08'09.937"W	0.05	
5488.00	0.590	235.590	5487.56	6.90	6.03	-6.94	560991.06	445970.02	32°13'33.365"N	104°08'09.959"W	0.20	
5676.00	0.710	225.930	5675.55	8.55	4.67	-8.58	560989.42	445968.67	32°13'33.352"N	104°08'09.978"W	0.09	
5865.00	0.670	231.700	5864.54	10.27	3.17	-10.29	560987.72	445967.17	32°13'33.337"N	104°08'09.998"W	0.04	
6053.00	0.910	1.490	6052.53	11.08	3.98	-11.11	560986.89	445967.98	32°13'33.345"N	104°08'10.007"W	0.76	
6241.00	0.870	8.130	6240.51	10.83	6.89	-10.87	560987.13	445970.88	32°13'33.374"N	104°08'10.004"W	0.06	
6335.00	2.010	41.400	6334.48	9.62	8.83	-9.68	560988.32	445972.83	32°13'33.393"N	104°08'09.990"W	1.46	
6429.00	1.560	52.290	6428.43	7.51	10.85	-7.58	560990.43	445974.85	32°13'33.413"N	104°08'09.966"W	0.60	
6523.00	1.830	93.390	6522.39	4.99	11.54	-5.06	560992.94	445975.54	32°13'33.420"N	104°08'09.937"W	1.29	



Actual Wellpath Report

No. 1H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Rustler Breaks) Sec 12, T 24-S, R 27-E	Wellbore	No. 1H AWB
Facility	Rustler Breaks 12 24 27 No. 1H		

WELLPATH DATA (207 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
6617.00	2.730	93.280	6616.32	1.26	11.32	-1.33	560996.67	445975.32	32°13'33.418"N	104°08'09.893"W	0.96	
6711.00	4.040	91.540	6710.15	-4.28	11.11	4.21	561002.21	445975.11	32°13'33.415"N	104°08'09.829"W	1.40	
6805.00	5.010	86.820	6803.86	-11.69	11.25	11.62	561009.62	445975.25	32°13'33.417"N	104°08'09.742"W	1.10	
6899.00	5.550	89.000	6897.46	-20.34	11.55	20.27	561018.26	445975.55	32°13'33.419"N	104°08'09.642"W	0.61	
6994.00	4.400	87.640	6992.10	-28.57	11.78	28.50	561026.50	445975.78	32°13'33.422"N	104°08'09.546"W	1.22	
7088.00	3.970	92.500	7085.85	-35.43	11.79	35.35	561033.35	445975.79	32°13'33.422"N	104°08'09.466"W	0.59	
7182.00	3.990	97.550	7179.62	-41.92	11.22	41.85	561039.84	445975.22	32°13'33.416"N	104°08'09.391"W	0.37	
7276.00	5.370	95.900	7273.31	-49.53	10.34	49.46	561047.46	445974.34	32°13'33.407"N	104°08'09.302"W	1.47	
7369.00	6.350	80.400	7365.83	-58.93	10.75	58.87	561056.86	445974.75	32°13'33.411"N	104°08'09.192"W	1.99	
7463.00	7.040	86.850	7459.19	-69.81	11.93	69.74	561067.74	445975.93	32°13'33.422"N	104°08'09.066"W	1.08	
7557.00	7.240	97.840	7552.46	-81.43	11.44	81.36	561079.36	445975.44	32°13'33.417"N	104°08'08.931"W	1.47	
7652.00	6.100	108.130	7646.82	-92.14	9.05	92.09	561090.08	445973.05	32°13'33.393"N	104°08'08.806"W	1.73	
7746.00	6.240	110.350	7740.28	-101.66	5.72	101.63	561099.62	445969.72	32°13'33.360"N	104°08'08.695"W	0.29	
7839.00	6.380	106.880	7832.71	-111.32	2.46	111.31	561109.30	445966.46	32°13'33.328"N	104°08'08.582"W	0.44	
7933.00	4.610	101.510	7926.28	-120.01	0.19	120.01	561118.00	445964.19	32°13'33.305"N	104°08'08.481"W	1.96	
8027.00	5.120	88.920	8019.94	-127.90	-0.48	127.91	561125.89	445963.52	32°13'33.298"N	104°08'08.389"W	1.26	
8121.00	4.810	86.560	8113.59	-136.03	-0.17	136.03	561134.02	445963.83	32°13'33.301"N	104°08'08.294"W	0.39	
8216.00	5.840	85.710	8208.18	-144.83	0.43	144.83	561142.82	445964.43	32°13'33.307"N	104°08'08.192"W	1.09	
8310.00	6.500	95.840	8301.64	-154.89	0.25	154.89	561152.88	445964.25	32°13'33.305"N	104°08'08.075"W	1.35	
8404.00	6.660	103.570	8395.02	-165.47	-1.57	165.48	561163.47	445962.43	32°13'33.287"N	104°08'07.952"W	0.96	
8498.00	6.740	107.330	8488.38	-176.02	-4.49	176.05	561174.03	445959.51	32°13'33.258"N	104°08'07.829"W	0.47	
8592.00	5.850	104.850	8581.81	-185.90	-7.36	185.94	561183.93	445956.64	32°13'33.229"N	104°08'07.714"W	0.99	
8687.00	4.630	98.910	8676.41	-194.35	-9.20	194.41	561192.39	445954.80	32°13'33.211"N	104°08'07.615"W	1.40	
8780.00	4.030	99.300	8769.14	-201.28	-10.31	201.35	561199.33	445953.69	32°13'33.200"N	104°08'07.534"W	0.65	
8874.00	2.970	95.730	8862.97	-206.96	-11.08	207.03	561205.01	445952.92	32°13'33.192"N	104°08'07.468"W	1.15	
8968.00	2.590	92.140	8956.86	-211.50	-11.41	211.57	561209.55	445952.59	32°13'33.189"N	104°08'07.415"W	0.44	
9000.00	2.510	89.880	8988.83	-212.92	-11.43	213.00	561210.98	445952.57	32°13'33.189"N	104°08'07.399"W	0.40	
9031.00	1.990	82.420	9019.80	-214.14	-11.36	214.21	561212.19	445952.64	32°13'33.189"N	104°08'07.385"W	1.92	
9062.00	1.720	35.280	9050.79	-214.94	-10.91	215.01	561212.99	445953.09	32°13'33.194"N	104°08'07.375"W	4.85	
9093.00	2.010	19.940	9081.77	-215.40	-10.02	215.47	561213.45	445953.98	32°13'33.202"N	104°08'07.370"W	1.85	
9125.00	2.290	358.420	9113.75	-215.58	-8.85	215.64	561213.62	445955.15	32°13'33.214"N	104°08'07.368"W	2.65	
9156.00	2.520	7.580	9144.72	-215.66	-7.56	215.71	561213.69	445956.44	32°13'33.227"N	104°08'07.367"W	1.44	
9188.00	3.100	349.480	9176.68	-215.61	-6.01	215.65	561213.63	445957.99	32°13'33.242"N	104°08'07.368"W	3.29	
9212.00	3.180	351.340	9200.65	-215.40	-4.71	215.43	561213.41	445959.29	32°13'33.255"N	104°08'07.370"W	0.54	
9272.00	3.140	341.660	9260.56	-214.65	-1.51	214.66	561212.64	445962.49	32°13'33.287"N	104°08'07.379"W	0.89	
9303.00	2.710	333.660	9291.52	-214.06	-0.05	214.07	561212.05	445963.95	32°13'33.301"N	104°08'07.386"W	1.91	
9335.00	3.060	322.600	9323.48	-213.22	1.31	213.21	561211.20	445965.31	32°13'33.315"N	104°08'07.396"W	2.05	
9367.00	3.430	310.870	9355.43	-211.98	2.62	211.97	561209.95	445966.62	32°13'33.328"N	104°08'07.410"W	2.37	
9398.00	5.530	295.340	9386.33	-209.94	3.86	209.92	561207.90	445967.86	32°13'33.340"N	104°08'07.434"W	7.76	
9430.00	8.890	286.140	9418.07	-206.18	5.21	206.15	561204.13	445969.21	32°13'33.353"N	104°08'07.478"W	11.07	
9461.00	13.400	276.000	9448.48	-200.31	6.25	200.27	561198.26	445970.25	32°13'33.364"N	104°08'07.547"W	15.81	
9493.00	16.120	277.200	9479.43	-192.22	7.20	192.18	561190.16	445971.20	32°13'33.373"N	104°08'07.641"W	8.55	
9524.00	18.840	276.560	9508.99	-182.98	8.31	182.93	561180.92	445972.31	32°13'33.384"N	104°08'07.748"W	8.80	
9555.00	22.170	275.280	9538.02	-172.19	9.42	172.13	561170.12	445973.42	32°13'33.396"N	104°08'07.874"W	10.84	
9587.00	25.430	275.280	9567.30	-159.34	10.61	159.28	561157.26	445974.61	32°13'33.408"N	104°08'08.024"W	10.19	



Actual Wellpath Report

No. 1H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Rustler Breaks) Sec 12, T 24-S, R 27-E	Wellbore	No. 1H AWB
Facility	Rustler Breaks 12 24 27 No. 1H		

WELLPATH DATA (207 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
9617.00	28.410	276.650	9594.04	-145.84	12.03	145.77	561143.76	445976.03	32°13'33.422"N	104°08'08.181"W	10.15	
9649.00	31.720	279.660	9621.74	-130.00	14.32	129.91	561127.90	445978.32	32°13'33.445"N	104°08'08.365"W	11.36	
9680.00	35.300	279.370	9647.58	-113.14	17.15	113.03	561111.02	445981.15	32°13'33.473"N	104°08'08.562"W	11.56	
9711.00	36.190	277.120	9672.74	-95.23	19.74	95.11	561093.11	445983.74	32°13'33.499"N	104°08'08.770"W	5.12	
9743.00	37.780	274.170	9698.30	-76.09	21.62	75.96	561073.95	445985.62	32°13'33.518"N	104°08'08.993"W	7.45	
9774.00	39.460	273.740	9722.52	-56.80	22.96	56.66	561054.65	445986.95	32°13'33.532"N	104°08'09.218"W	5.49	
9806.00	41.580	272.040	9746.85	-36.04	24.00	35.90	561033.89	445988.00	32°13'33.542"N	104°08'09.460"W	7.47	
9837.00	42.110	270.890	9769.94	-15.37	24.53	15.22	561013.22	445988.52	32°13'33.548"N	104°08'09.700"W	3.01	
9869.00	44.750	268.590	9793.18	6.62	24.42	-6.77	560991.23	445988.41	32°13'33.547"N	104°08'09.956"W	9.62	
9900.00	49.450	267.850	9814.28	29.32	23.70	-29.46	560968.54	445987.70	32°13'33.541"N	104°08'10.220"W	15.26	
9932.00	54.950	266.700	9833.88	54.57	22.49	-54.71	560943.30	445986.49	32°13'33.529"N	104°08'10.514"W	17.42	
9963.00	59.730	266.800	9850.61	80.63	21.01	-80.76	560917.25	445985.01	32°13'33.515"N	104°08'10.818"W	15.42	
9994.00	63.150	266.960	9865.43	107.82	19.53	-107.94	560890.07	445983.53	32°13'33.501"N	104°08'11.134"W	11.04	
10026.00	66.160	267.010	9879.12	136.70	18.01	-136.82	560861.20	445982.01	32°13'33.486"N	104°08'11.470"W	9.41	
10055.00	69.170	267.500	9890.14	163.50	16.73	-163.61	560834.41	445980.73	32°13'33.474"N	104°08'11.782"W	10.50	
10089.00	71.770	268.330	9901.51	195.53	15.57	-195.63	560802.39	445979.56	32°13'33.463"N	104°08'12.155"W	7.99	
10120.00	73.850	269.000	9910.67	225.14	14.88	-225.23	560772.79	445978.88	32°13'33.457"N	104°08'12.499"W	7.02	
10152.00	75.760	269.480	9919.06	256.01	14.47	-256.11	560741.91	445978.47	32°13'33.453"N	104°08'12.859"W	6.14	
10183.00	78.130	270.030	9926.06	286.21	14.34	-286.30	560711.72	445978.34	32°13'33.453"N	104°08'13.210"W	7.84	
10215.00	80.520	270.390	9931.98	317.65	14.46	-317.75	560680.28	445978.45	32°13'33.454"N	104°08'13.576"W	7.55	
10246.00	82.330	271.130	9936.61	348.30	14.86	-348.40	560649.63	445978.86	32°13'33.459"N	104°08'13.933"W	6.30	
10278.00	83.170	271.200	9940.64	380.03	15.51	-380.13	560617.90	445979.51	32°13'33.466"N	104°08'14.303"W	2.63	
10309.00	84.080	271.330	9944.09	410.83	16.19	-410.94	560587.10	445980.19	32°13'33.473"N	104°08'14.661"W	2.96	
10340.00	85.310	271.240	9946.95	441.68	16.88	-441.79	560556.24	445980.88	32°13'33.481"N	104°08'15.020"W	3.98	
10372.00	86.340	271.390	9949.28	473.58	17.61	-473.70	560524.34	445981.61	32°13'33.488"N	104°08'15.392"W	3.25	
10403.00	86.950	270.630	9951.10	504.52	18.16	-504.64	560493.40	445982.16	32°13'33.494"N	104°08'15.752"W	3.14	
10435.00	88.090	269.870	9952.48	536.49	18.30	-536.61	560461.44	445982.30	32°13'33.496"N	104°08'16.124"W	4.28	
10466.00	89.350	269.270	9953.17	567.48	18.06	-567.60	560430.45	445982.06	32°13'33.495"N	104°08'16.485"W	4.50	
10560.00	93.730	269.300	9950.65	661.42	16.89	-661.54	560336.52	445980.89	32°13'33.485"N	104°08'17.578"W	4.66	
10655.00	91.050	267.500	9946.69	756.30	14.24	-756.41	560241.66	445978.24	32°13'33.460"N	104°08'18.683"W	3.40	
10749.00	92.310	264.950	9943.93	850.09	8.06	-850.15	560147.92	445972.06	32°13'33.401"N	104°08'19.774"W	3.02	
10844.00	92.250	263.560	9940.15	944.59	-1.45	-944.60	560053.49	445962.55	32°13'33.308"N	104°08'20.874"W	1.46	
10938.00	90.460	261.820	9937.93	1037.86	-13.40	-1037.80	559960.29	445950.60	32°13'33.192"N	104°08'21.959"W	2.66	
11033.00	94.260	263.720	9934.02	1132.08	-25.35	-1131.94	559866.16	445938.65	32°13'33.075"N	104°08'23.055"W	4.47	
11064.00	93.480	264.870	9931.92	1162.87	-28.42	-1162.72	559835.39	445935.58	32°13'33.045"N	104°08'23.413"W	4.48	
11096.00	89.750	264.300	9931.02	1194.73	-31.44	-1194.56	559803.55	445932.56	32°13'33.016"N	104°08'23.784"W	11.79	
11127.00	89.850	264.730	9931.13	1225.60	-34.40	-1225.41	559772.69	445929.60	32°13'32.987"N	104°08'24.143"W	1.42	
11148.00	91.940	264.150	9930.80	1246.51	-36.44	-1246.31	559751.80	445927.57	32°13'32.967"N	104°08'24.387"W	10.33	
11168.00	92.750	265.220	9929.98	1266.42	-38.29	-1266.21	559731.90	445925.71	32°13'32.949"N	104°08'24.618"W	6.71	
11188.00	92.810	266.160	9929.01	1286.35	-39.79	-1286.13	559711.99	445924.21	32°13'32.935"N	104°08'24.850"W	4.70	
11208.00	93.050	267.670	9927.99	1306.30	-40.86	-1306.07	559692.04	445923.14	32°13'32.925"N	104°08'25.082"W	7.64	
11219.00	93.180	269.170	9927.39	1317.28	-41.17	-1317.05	559681.06	445922.84	32°13'32.922"N	104°08'25.210"W	13.67	
11241.00	92.960	271.450	9926.22	1339.25	-41.05	-1339.02	559659.10	445922.95	32°13'32.923"N	104°08'25.466"W	10.40	
11261.00	93.240	274.110	9925.13	1359.18	-40.08	-1358.96	559639.16	445923.92	32°13'32.933"N	104°08'25.698"W	13.35	
11281.00	93.080	275.590	9924.03	1379.07	-38.39	-1378.86	559619.26	445925.61	32°13'32.950"N	104°08'25.930"W	7.43	



Actual Wellpath Report

No. 1H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Rustler Breaks) Sec 12, T 24-S, R 27-E	Wellbore	No. 1H AWB
Facility	Rustler Breaks 12 24 27 No. 1H		

WELLPATH DATA (207 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
11314.00	93.890	275.640	9922.03	1411.83	-35.17	-1411.64	559586.48	445928.83	32°13'32.983"N	104°08'26.311"W	2.46	
11347.00	93.640	275.610	9919.86	1444.58	-31.94	-1444.41	559553.72	445932.06	32°13'33.015"N	104°08'26.692"W	0.76	
11379.00	93.490	275.690	9917.87	1476.34	-28.80	-1476.20	559521.94	445935.21	32°13'33.047"N	104°08'27.062"W	0.53	
11410.00	93.880	275.710	9915.88	1507.11	-25.72	-1506.98	559491.16	445938.28	32°13'33.078"N	104°08'27.421"W	1.26	
11442.00	95.210	274.730	9913.34	1538.86	-22.82	-1538.74	559459.39	445941.18	32°13'33.107"N	104°08'27.790"W	5.16	
11473.00	92.280	276.720	9911.32	1569.61	-19.74	-1569.52	559428.62	445944.27	32°13'33.138"N	104°08'28.149"W	11.42	
11504.00	91.760	276.470	9910.22	1600.36	-16.18	-1600.29	559397.85	445947.82	32°13'33.174"N	104°08'28.507"W	1.86	
11536.00	91.140	276.420	9909.41	1632.13	-12.59	-1632.08	559366.06	445951.41	32°13'33.210"N	104°08'28.877"W	1.94	
11567.00	91.230	275.830	9908.77	1662.92	-9.28	-1662.90	559335.25	445954.72	32°13'33.243"N	104°08'29.235"W	1.92	
11599.00	91.600	275.990	9907.98	1694.72	-5.99	-1694.72	559303.43	445958.01	32°13'33.277"N	104°08'29.606"W	1.26	
11630.00	91.970	276.020	9907.02	1725.52	-2.74	-1725.53	559272.62	445961.26	32°13'33.309"N	104°08'29.964"W	1.20	
11661.00	92.520	276.180	9905.80	1756.30	0.55	-1756.33	559241.82	445964.55	32°13'33.342"N	104°08'30.323"W	1.85	
11693.00	92.740	276.080	9904.33	1788.06	3.96	-1788.12	559210.04	445967.96	32°13'33.377"N	104°08'30.693"W	0.76	
11724.00	91.790	275.100	9903.11	1818.87	6.98	-1818.94	559179.22	445970.98	32°13'33.407"N	104°08'31.051"W	4.40	
11755.00	91.020	274.840	9902.35	1849.72	9.66	-1849.82	559148.35	445973.66	32°13'33.434"N	104°08'31.411"W	2.62	
11786.00	90.710	273.910	9901.88	1880.62	12.03	-1880.72	559117.44	445976.03	32°13'33.458"N	104°08'31.771"W	3.16	
11881.00	90.000	272.130	9901.29	1975.44	17.03	-1975.59	559022.59	445981.03	32°13'33.509"N	104°08'32.875"W	2.02	
11912.00	88.950	272.210	9901.58	2006.41	18.21	-2006.56	558991.62	445982.20	32°13'33.522"N	104°08'33.235"W	3.40	
11975.00	88.640	271.940	9902.90	2069.34	20.49	-2069.51	558928.68	445984.48	32°13'33.545"N	104°08'33.968"W	0.65	
12069.00	89.750	272.320	9904.22	2163.24	23.98	-2163.43	558834.76	445987.98	32°13'33.581"N	104°08'35.061"W	1.25	
12164.00	91.660	270.800	9903.05	2258.18	26.57	-2258.38	558739.82	445990.56	32°13'33.609"N	104°08'36.166"W	2.57	
12258.00	93.210	270.640	9899.06	2352.07	27.75	-2352.29	558645.92	445991.74	32°13'33.622"N	104°08'37.259"W	1.66	
12353.00	95.920	271.100	9891.50	2446.74	29.18	-2446.97	558551.25	445993.18	32°13'33.638"N	104°08'38.362"W	2.89	
12447.00	91.910	269.740	9885.08	2540.49	29.87	-2540.72	558457.50	445993.86	32°13'33.646"N	104°08'39.453"W	4.50	
12542.00	95.150	270.110	9879.23	2635.30	29.74	-2635.53	558362.70	445993.74	32°13'33.647"N	104°08'40.557"W	3.43	
12637.00	96.310	270.990	9869.75	2729.81	30.65	-2730.05	558268.19	445994.65	32°13'33.657"N	104°08'41.657"W	1.53	
12684.00	90.860	271.040	9866.81	2776.68	31.48	-2776.93	558221.32	445995.48	32°13'33.666"N	104°08'42.203"W	11.60	
12731.00	94.280	272.280	9864.70	2823.60	32.84	-2823.86	558174.39	445996.84	32°13'33.681"N	104°08'42.749"W	7.74	
12778.00	90.000	270.610	9862.95	2870.53	34.02	-2870.80	558127.46	445998.02	32°13'33.693"N	104°08'43.295"W	9.77	
12825.00	93.820	271.210	9861.38	2917.48	34.77	-2917.75	558080.50	445998.76	32°13'33.701"N	104°08'43.842"W	8.23	
12872.00	92.250	270.710	9858.89	2964.41	35.55	-2964.68	558033.58	445999.55	32°13'33.710"N	104°08'44.388"W	3.51	
12920.00	93.570	270.470	9856.46	3012.34	36.05	-3012.61	557985.65	446000.04	32°13'33.716"N	104°08'44.946"W	2.79	
12967.00	96.770	270.610	9852.22	3059.13	36.49	-3059.42	557938.86	446000.49	32°13'33.721"N	104°08'45.491"W	6.81	
13015.00	91.880	271.120	9848.60	3106.97	37.21	-3107.26	557891.02	446001.21	32°13'33.729"N	104°08'46.048"W	10.24	
13046.00	91.480	271.570	9847.69	3137.94	37.94	-3138.24	557860.04	446001.94	32°13'33.736"N	104°08'46.408"W	1.94	
13078.00	90.000	270.990	9847.28	3169.93	38.65	-3170.22	557828.06	446002.65	32°13'33.744"N	104°08'46.781"W	4.97	
13109.00	90.830	270.270	9847.06	3200.92	38.99	-3201.22	557797.06	446002.99	32°13'33.748"N	104°08'47.141"W	3.54	
13140.00	92.000	269.070	9846.29	3231.91	38.82	-3232.21	557766.08	446002.81	32°13'33.747"N	104°08'47.502"W	5.41	
13172.00	93.080	268.560	9844.87	3263.87	38.15	-3264.17	557734.12	446002.15	32°13'33.741"N	104°08'47.874"W	3.73	
13204.00	92.250	269.150	9843.39	3295.84	37.52	-3296.13	557702.16	446001.51	32°13'33.735"N	104°08'48.246"W	3.18	
13251.00	91.200	267.600	9841.97	3342.80	36.18	-3343.09	557655.21	446000.18	32°13'33.723"N	104°08'48.793"W	3.98	
13282.00	89.290	266.640	9841.84	3373.77	34.63	-3374.05	557624.25	445998.62	32°13'33.708"N	104°08'49.153"W	6.90	
13298.00	89.290	266.010	9842.04	3389.74	33.60	-3390.01	557608.29	445997.60	32°13'33.698"N	104°08'49.339"W	3.94	
13329.00	88.980	265.390	9842.50	3420.66	31.28	-3420.92	557577.38	445995.27	32°13'33.675"N	104°08'49.699"W	2.24	
13361.00	90.830	265.510	9842.56	3452.58	28.74	-3452.82	557545.49	445992.74	32°13'33.651"N	104°08'50.070"W	5.79	



Actual Wellpath Report

No. 1H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Rustler Breaks) Sec 12, T 24-S, R 27-E	Wellbore	No. 1H AWB
Facility	Rustler Breaks 12 24 27 No. 1H		

WELLPATH DATA (207 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
13393.00	92.620	265.650	9841.59	3484.48	26.27	-3484.71	557513.60	445990.27	32°13'33.627"N	104°08'50.442"W	5.61	
13440.00	94.970	266.500	9838.48	3531.28	23.06	-3531.49	557466.82	445987.06	32°13'33.596"N	104°08'50.986"W	5.32	
13488.00	95.560	266.320	9834.08	3579.00	20.07	-3579.19	557419.12	445984.07	32°13'33.567"N	104°08'51.542"W	1.28	
13535.00	96.050	266.080	9829.32	3625.68	16.97	-3625.85	557372.47	445980.97	32°13'33.537"N	104°08'52.085"W	1.16	
13582.00	97.130	265.990	9823.93	3672.27	13.74	-3672.43	557325.90	445977.74	32°13'33.506"N	104°08'52.627"W	2.31	
13629.00	95.950	267.050	9818.58	3718.90	10.91	-3719.03	557279.30	445974.91	32°13'33.479"N	104°08'53.170"W	3.37	
13676.00	94.410	267.910	9814.33	3765.67	8.85	-3765.80	557232.54	445972.85	32°13'33.459"N	104°08'53.714"W	3.75	
13723.00	94.440	267.720	9810.71	3812.51	7.07	-3812.62	557185.72	445971.06	32°13'33.443"N	104°08'54.259"W	0.41	
13770.00	93.270	267.430	9807.55	3859.37	5.08	-3859.47	557138.87	445969.08	32°13'33.424"N	104°08'54.805"W	2.56	
13817.00	91.140	267.150	9805.74	3906.29	2.86	-3906.38	557091.96	445966.86	32°13'33.403"N	104°08'55.351"W	4.57	
13864.00	90.190	266.220	9805.19	3953.22	0.14	-3953.30	557045.05	445964.14	32°13'33.376"N	104°08'55.897"W	2.83	
13911.00	91.200	266.290	9804.62	4000.14	-2.93	-4000.19	556998.16	445961.07	32°13'33.347"N	104°08'56.443"W	2.15	
13958.00	89.820	264.740	9804.21	4047.01	-6.60	-4047.05	556951.31	445957.40	32°13'33.311"N	104°08'56.988"W	4.42	
14005.00	88.680	264.920	9804.82	4093.84	-10.84	-4093.85	556904.51	445953.16	32°13'33.270"N	104°08'57.533"W	2.46	
14053.00	88.710	264.330	9805.91	4141.64	-15.33	-4141.63	556856.74	445948.67	32°13'33.226"N	104°08'58.089"W	1.23	
14100.00	90.220	266.630	9806.35	4188.51	-19.04	-4188.47	556809.90	445944.97	32°13'33.191"N	104°08'58.635"W	5.85	
14147.00	91.420	267.940	9805.68	4235.47	-21.26	-4235.41	556762.96	445942.74	32°13'33.169"N	104°08'59.181"W	3.78	
14195.00	90.830	267.770	9804.74	4283.43	-23.06	-4283.37	556715.01	445940.94	32°13'33.152"N	104°08'59.740"W	1.28	
14242.00	89.970	267.540	9804.41	4330.40	-24.98	-4330.33	556668.05	445939.02	32°13'33.134"N	104°09'00.286"W	1.89	
14290.00	90.590	267.640	9804.18	4378.37	-27.00	-4378.29	556620.10	445937.00	32°13'33.115"N	104°09'00.845"W	1.31	
14336.00	91.510	267.910	9803.33	4424.34	-28.78	-4424.24	556574.15	445935.22	32°13'33.098"N	104°09'01.380"W	2.08	
14383.00	92.280	268.420	9801.78	4471.30	-30.29	-4471.19	556527.20	445933.71	32°13'33.084"N	104°09'01.926"W	1.96	
14430.00	91.970	268.200	9800.04	4518.25	-31.67	-4518.14	556480.26	445932.33	32°13'33.071"N	104°09'02.473"W	0.81	
14478.00	91.850	268.020	9798.44	4566.21	-33.26	-4566.09	556432.32	445930.75	32°13'33.056"N	104°09'03.031"W	0.45	
14524.00	91.980	267.800	9796.90	4612.16	-34.93	-4612.03	556386.38	445929.07	32°13'33.040"N	104°09'03.566"W	0.56	
14555.00	92.930	268.090	9795.57	4643.12	-36.04	-4642.98	556355.43	445927.96	32°13'33.030"N	104°09'03.926"W	3.20	
14620.00	92.930	268.090	9792.25	4708.01	-38.21	-4707.86	556290.56	445925.80	32°13'33.010"N	104°09'04.681"W	0.00	Proj to Bit



Actual Wellpath Report

No. 1H AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Rustler Breaks) Sec 12, T 24-S, R 27-E	Wellbore	No. 1H AWB
Facility	Rustler Breaks 12 24 27 No. 1H		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
No. 1H PBHL		9838.00	-29.00	-4713.42	556285.00	445935.00	32°13'33.101"N	104°09'04.746"W	point

WELLPATH COMPOSITION - Ref Wellbore: No. 1H AWB Ref Wellpath: No. 1H AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	2394.00	ISCWSA MWD. Rev. 2 (Standard)	Unknown Surveys <390-2394>	No. 1H AWB
2394.00	14555.00	NaviTrak (Standard)	BHI MWD NaviTrak <2570-14555>	No. 1H AWB
14555.00	14620.00	Blind Drilling (std)	Projection to bit	No. 1H AWB