



Actual Wellpath Report

Paul 25 24S 28E RB No. 121H awp 44.84' - 13118' Proj: 13188'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	Paul 25 121H
Area	Eddy County, NM	Well	Paul 25 24S 28E RB No. 121H
Field	Willow Lake; Bone Spring (Eddy Co., NM)	Wellbore	Paul 25 121H AWB
Facility	Paul 25 121H		

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 5.0
North Reference	Grid	User	Buiduyh
Scale	0.999918	Report Generated	12/Dec/2016 at 09:07
Convergence at slot	0.16° East	Database/Source file	WA_Midland/Paul 25 24S 28E RB_No. 121H_ awp 44.84 - 13118 Proj_ 13188 .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	588253.00	434675.00	32°11'40.981"N	104°02'52.934"W
Facility Reference Pt			588253.00	434675.00	32°11'40.981"N	104°02'52.934"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: Patterson 274 (RKB) to Facility Vertical Datum	2948.00ft
Horizontal Reference Pt	Slot	Rig: Patterson 274 (RKB) to Mean Sea Level	2948.00ft
Vertical Reference Pt	Rig: Patterson 274 (RKB)	Rig: Patterson 274 (RKB) to Mud Line at Slot (Paul 25 121H)	29.00ft
MD Reference Pt	Rig: Patterson 274 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	90.10°



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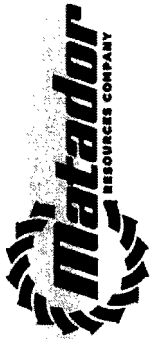


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Field	Willow Lake; Bone Spring (Eddy Co., NM)	Wellbore	Paul 25 121H AWB
Facility	Paul 25 121H		

WELLPATH DATA (146 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	20.260	0.00	0.00	0.00	0.00	588253.00	434675.00	32°11'40.981"N	104°02'52.934"W	0.00	
29.00	0.000	20.260	29.00	0.00	0.00	0.00	588253.00	434675.00	32°11'40.981"N	104°02'52.934"W	0.00	
44.84	0.450	20.260	44.84	0.02	0.06	0.02	588253.02	434675.06	32°11'40.981"N	104°02'52.934"W	2.84	
132.70	0.440	17.640	132.70	0.24	0.70	0.24	588253.24	434675.70	32°11'40.988"N	104°02'52.931"W	0.03	
220.56	0.770	11.010	220.55	0.46	1.60	0.46	588253.46	434676.60	32°11'40.996"N	104°02'52.929"W	0.38	
308.42	0.960	1.050	308.40	0.58	2.92	0.58	588253.58	434677.92	32°11'41.009"N	104°02'52.927"W	0.28	
396.28	1.050	9.110	396.25	0.72	4.45	0.73	588253.73	434679.45	32°11'41.025"N	104°02'52.926"W	0.19	
484.14	0.990	18.870	484.09	1.09	5.96	1.10	588254.10	434680.96	32°11'41.040"N	104°02'52.921"W	0.21	
572.00	0.890	21.490	571.94	1.58	7.32	1.59	588254.59	434682.32	32°11'41.053"N	104°02'52.916"W	0.12	Imported Gyro 44.84' - 572'
641.00	0.610	38.710	640.94	2.01	8.10	2.02	588255.02	434683.10	32°11'41.061"N	104°02'52.911"W	0.52	
702.00	0.990	14.430	701.93	2.34	8.87	2.35	588255.35	434683.87	32°11'41.068"N	104°02'52.907"W	0.82	
794.00	2.520	357.500	793.89	2.44	11.66	2.46	588255.46	434686.66	32°11'41.096"N	104°02'52.905"W	1.74	
884.00	3.650	357.870	883.75	2.24	16.50	2.27	588255.27	434691.49	32°11'41.144"N	104°02'52.907"W	1.26	
980.00	4.460	0.870	979.51	2.17	23.28	2.21	588255.21	434698.28	32°11'41.211"N	104°02'52.908"W	0.87	
1074.00	3.970	2.690	1073.26	2.37	30.19	2.42	588255.42	434705.18	32°11'41.279"N	104°02'52.905"W	0.54	
1170.00	3.610	359.230	1169.05	2.47	36.53	2.54	588255.54	434711.53	32°11'41.342"N	104°02'52.904"W	0.44	
1265.00	4.050	343.010	1263.84	1.44	42.73	1.52	588254.52	434717.72	32°11'41.403"N	104°02'52.915"W	1.23	
1361.00	5.350	320.810	1359.52	-2.39	49.44	-2.30	588250.70	434724.44	32°11'41.470"N	104°02'52.960"W	2.30	
1456.00	5.320	314.630	1454.11	-8.33	55.97	-8.23	588244.77	434730.96	32°11'41.535"N	104°02'53.028"W	0.61	
1551.00	4.730	313.290	1548.75	-14.33	61.75	-14.22	588238.78	434736.74	32°11'41.592"N	104°02'53.098"W	0.63	
1647.00	4.990	298.650	1644.40	-20.88	66.46	-20.77	588232.24	434741.46	32°11'41.639"N	104°02'53.174"W	1.32	
1742.00	5.790	276.450	1738.99	-29.27	68.98	-29.15	588223.85	434743.98	32°11'41.664"N	104°02'53.271"W	2.33	
1838.00	5.940	271.630	1834.49	-39.05	69.67	-38.93	588214.07	434744.66	32°11'41.671"N	104°02'53.385"W	0.54	
1933.00	4.850	277.010	1929.07	-47.95	70.30	-47.83	588205.17	434745.29	32°11'41.677"N	104°02'53.489"W	1.26	
2028.00	3.520	270.080	2023.82	-54.86	70.79	-54.73	588198.27	434745.78	32°11'41.683"N	104°02'53.569"W	1.50	
2123.00	4.410	274.560	2118.59	-61.41	71.09	-61.29	588191.71	434746.08	32°11'41.686"N	104°02'53.645"W	0.99	
2218.00	5.290	285.810	2213.25	-69.27	72.57	-69.15	588183.86	434747.56	32°11'41.700"N	104°02'53.737"W	1.36	
2314.00	6.260	293.360	2308.76	-78.34	75.85	-78.21	588174.80	434750.84	32°11'41.733"N	104°02'53.842"W	1.28	
2409.00	6.560	289.770	2403.17	-88.21	79.74	-88.07	588164.94	434754.73	32°11'41.772"N	104°02'53.957"W	0.53	
2504.00	5.950	288.330	2497.60	-98.00	83.12	-97.85	588155.16	434758.12	32°11'41.806"N	104°02'54.070"W	0.66	



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Field	Willow Lake; Bone Spring (Eddy Co., NM)	Wellbore	Paul 25 121H AWB
Facility	Paul 25 121H		

WELLPATH DATA (146 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
2600.00	6.050	285.520	2593.08	-107.60	86.04	-107.45	588145.56	434761.03	32°11'41.835"N	104°02'54.182"W	0.32	
2644.00	6.400	283.710	2636.82	-112.22	87.24	-112.07	588140.94	434762.24	32°11'41.847"N	104°02'54.236"W	0.91	12 1/4 BHI MWD 64' - 2644'
2718.00	6.090	283.210	2710.38	-120.05	89.12	-119.89	588133.12	434764.11	32°11'41.866"N	104°02'54.327"W	0.43	
2813.00	6.190	283.190	2804.83	-129.95	91.44	-129.79	588123.22	434766.43	32°11'41.889"N	104°02'54.442"W	0.11	
2909.00	6.160	281.730	2900.28	-140.03	93.67	-139.87	588113.14	434768.66	32°11'41.911"N	104°02'54.559"W	0.17	
3004.00	5.900	281.690	2994.75	-149.81	95.69	-149.64	588103.37	434770.68	32°11'41.931"N	104°02'54.673"W	0.27	
3099.00	5.950	280.680	3089.24	-159.43	97.59	-159.26	588093.75	434772.59	32°11'41.950"N	104°02'54.785"W	0.12	
3193.00	6.100	280.080	3182.72	-169.14	99.37	-168.97	588084.05	434774.36	32°11'41.968"N	104°02'54.897"W	0.17	
3289.00	6.070	279.390	3278.18	-179.17	101.09	-179.00	588074.02	434776.08	32°11'41.986"N	104°02'55.014"W	0.08	
3384.00	4.600	278.250	3372.77	-187.90	102.46	-187.72	588065.29	434777.45	32°11'41.999"N	104°02'55.116"W	1.55	
3478.00	2.870	285.660	3466.57	-193.90	103.63	-193.72	588059.30	434778.63	32°11'42.011"N	104°02'55.185"W	1.91	
3573.00	2.320	285.190	3561.47	-198.05	104.78	-197.86	588055.15	434779.77	32°11'42.023"N	104°02'55.234"W	0.58	
3668.00	2.280	283.740	3656.39	-201.74	105.73	-201.56	588051.46	434780.72	32°11'42.032"N	104°02'55.277"W	0.07	
3764.00	2.300	284.120	3752.31	-205.46	106.66	-205.28	588047.74	434781.65	32°11'42.041"N	104°02'55.320"W	0.03	
3859.00	2.290	313.700	3847.24	-208.69	108.43	-208.50	588044.52	434783.42	32°11'42.059"N	104°02'55.357"W	1.23	
3953.00	2.310	318.670	3941.17	-211.30	111.15	-211.11	588041.91	434786.14	32°11'42.086"N	104°02'55.388"W	0.21	
4048.00	2.220	315.390	4036.09	-213.86	113.90	-213.66	588039.35	434788.89	32°11'42.113"N	104°02'55.417"W	0.17	
4143.00	1.270	301.610	4131.05	-216.06	115.76	-215.85	588037.16	434790.75	32°11'42.132"N	104°02'55.443"W	1.09	
4238.00	0.600	181.900	4226.04	-216.97	115.82	-216.77	588036.25	434790.81	32°11'42.132"N	104°02'55.453"W	1.74	
4333.00	1.060	175.240	4321.03	-216.91	114.44	-216.71	588036.31	434789.43	32°11'42.119"N	104°02'55.453"W	0.49	
4429.00	0.200	181.610	4417.02	-216.84	113.39	-216.64	588036.38	434788.38	32°11'42.108"N	104°02'55.452"W	0.90	
4619.00	0.220	65.020	4607.02	-216.52	113.21	-216.32	588036.70	434788.20	32°11'42.107"N	104°02'55.448"W	0.19	
4810.00	0.170	174.150	4798.02	-216.16	113.09	-215.96	588037.06	434788.08	32°11'42.105"N	104°02'55.444"W	0.17	
5000.00	0.440	200.490	4988.02	-216.38	112.12	-216.19	588036.83	434787.11	32°11'42.096"N	104°02'55.447"W	0.16	
5190.00	0.380	128.140	5178.01	-216.14	111.05	-215.95	588037.07	434786.04	32°11'42.085"N	104°02'55.444"W	0.26	
5382.00	0.620	109.430	5370.01	-214.66	110.31	-214.46	588038.55	434785.30	32°11'42.078"N	104°02'55.427"W	0.15	
5572.00	0.510	109.150	5560.00	-212.89	109.69	-212.70	588040.32	434784.68	32°11'42.072"N	104°02'55.406"W	0.06	
5763.00	0.400	120.460	5750.99	-211.51	109.08	-211.32	588041.70	434784.07	32°11'42.065"N	104°02'55.390"W	0.07	
5954.00	0.610	132.200	5941.98	-210.18	108.05	-209.99	588043.03	434783.05	32°11'42.055"N	104°02'55.375"W	0.12	
6145.00	0.460	176.600	6132.98	-209.38	106.61	-209.19	588043.83	434781.60	32°11'42.041"N	104°02'55.365"W	0.22	



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Operator	Matador Resources	Slot	Paul 25 121H
Area	Eddy County, NM	Well	Paul 25 24S 28E RB No. 121H
Field	Willow Lake; Bone Spring (Eddy Co., NM)	Wellbore	Paul 25 121H AWB
Facility	Paul 25 121H		

WELLPATH DATA (146 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
6336.00	0.330	20.490	6323.97	-209.14	106.36	-208.95	588044.06	434781.35	32°11'42.038"N	104°02'55.363"W	0.40	
6526.00	1.150	0.020	6513.96	-208.95	108.78	-208.76	588044.26	434783.77	32°11'42.062"N	104°02'55.360"W	0.45	
6717.00	2.160	333.300	6704.88	-210.58	113.91	-210.38	588042.64	434788.90	32°11'42.113"N	104°02'55.379"W	0.65	
6907.00	2.030	335.680	6894.75	-213.58	120.17	-213.37	588039.64	434795.16	32°11'42.175"N	104°02'55.414"W	0.08	
7098.00	2.620	308.820	7085.60	-218.39	125.99	-218.17	588034.85	434800.98	32°11'42.233"N	104°02'55.469"W	0.64	
7289.00	2.010	253.650	7276.46	-225.01	127.79	-224.78	588028.23	434802.78	32°11'42.251"N	104°02'55.546"W	1.16	
7480.00	1.840	268.110	7467.36	-231.28	126.74	-231.06	588021.96	434801.73	32°11'42.241"N	104°02'55.619"W	0.27	
7574.00	2.170	277.240	7561.30	-234.56	126.92	-234.34	588018.68	434801.91	32°11'42.243"N	104°02'55.657"W	0.49	
7632.00	3.330	302.460	7619.23	-237.07	127.96	-236.85	588016.17	434802.95	32°11'42.253"N	104°02'55.687"W	2.84	
7727.00	0.180	28.580	7714.18	-239.33	129.57	-239.10	588013.92	434804.56	32°11'42.269"N	104°02'55.713"W	3.50	
7758.00	3.160	131.620	7745.16	-238.67	129.05	-238.44	588014.58	434804.04	32°11'42.264"N	104°02'55.705"W	10.34	
7790.00	6.170	139.100	7777.05	-236.88	127.16	-236.66	588016.36	434802.15	32°11'42.245"N	104°02'55.684"W	9.58	
7822.00	9.060	127.360	7808.77	-233.74	124.33	-233.53	588019.49	434799.32	32°11'42.217"N	104°02'55.648"W	10.21	
7854.00	11.630	128.580	7840.25	-229.21	120.79	-229.00	588024.02	434795.78	32°11'42.182"N	104°02'55.595"W	8.06	
7885.00	14.050	129.740	7870.47	-223.87	116.44	-223.67	588029.35	434791.43	32°11'42.139"N	104°02'55.533"W	7.85	
7917.00	17.110	127.980	7901.29	-217.16	111.05	-216.97	588036.05	434786.04	32°11'42.085"N	104°02'55.456"W	9.67	
7949.00	20.080	127.220	7931.62	-209.06	104.83	-208.88	588044.14	434779.82	32°11'42.023"N	104°02'55.362"W	9.31	
7981.00	22.480	125.860	7961.43	-199.72	97.93	-199.55	588053.47	434772.92	32°11'41.955"N	104°02'55.253"W	7.66	
8012.00	24.660	125.750	7989.85	-189.65	90.67	-189.49	588063.52	434765.67	32°11'41.883"N	104°02'55.137"W	7.03	
8053.00	28.560	126.090	8026.50	-174.77	79.90	-174.63	588078.39	434754.89	32°11'41.776"N	104°02'54.964"W	9.52	
8085.00	32.130	124.940	8054.11	-161.59	70.52	-161.46	588091.55	434745.51	32°11'41.683"N	104°02'54.811"W	11.30	
8117.00	37.000	122.860	8080.45	-146.50	60.41	-146.39	588106.62	434735.41	32°11'41.582"N	104°02'54.636"W	15.66	
8149.00	42.080	120.080	8105.12	-129.10	49.81	-129.01	588124.00	434724.80	32°11'41.477"N	104°02'54.434"W	16.81	
8180.00	47.020	116.760	8127.01	-109.95	39.49	-109.88	588143.13	434714.48	32°11'41.374"N	104°02'54.212"W	17.61	
8212.00	51.740	114.220	8148.04	-88.01	29.05	-87.96	588165.05	434704.05	32°11'41.270"N	104°02'53.957"W	15.93	
8244.00	55.310	112.730	8167.06	-64.39	18.81	-64.36	588188.65	434693.81	32°11'41.168"N	104°02'53.683"W	11.77	
8276.00	57.760	111.690	8184.71	-39.66	8.73	-39.65	588213.36	434683.73	32°11'41.068"N	104°02'53.395"W	8.12	
8307.00	59.950	110.210	8200.74	-14.87	-0.75	-14.87	588238.13	434674.25	32°11'40.973"N	104°02'53.107"W	8.16	
8339.00	61.180	106.920	8216.47	11.56	-9.62	11.55	588264.54	434665.38	32°11'40.885"N	104°02'52.800"W	9.74	
8370.00	63.200	103.680	8230.93	38.02	-16.85	37.99	588290.99	434658.15	32°11'40.813"N	104°02'52.493"W	11.31	



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Operator	Matador Resources	Slot	Paul 25 121H
Area	Eddy County, NM	Well	Paul 25 24S 28E RB No. 121H
Field	Willow Lake; Bone Spring (Eddy Co., NM)	Wellbore	Paul 25 121H AWB
Facility	Paul 25 121H		

WELLPATH DATA (146 stations)

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8402.00	66.150	101.010	8244.62	66.28	-23.02	66.24	588319.23	434651.98	32°11'40.751"N	104°02'52.164"W	11.91	
8425.00	68.490	98.640	8253.49	87.19	-26.64	87.15	588340.14	434648.36	32°11'40.715"N	104°02'51.921"W	13.92	
8457.00	72.180	95.530	8264.26	117.10	-30.35	117.04	588370.03	434644.66	32°11'40.677"N	104°02'51.573"W	14.72	
8489.00	75.190	94.580	8273.25	147.69	-33.05	147.63	588400.62	434641.95	32°11'40.650"N	104°02'51.217"W	9.83	
8520.00	77.680	93.080	8280.52	177.76	-35.06	177.70	588430.68	434639.94	32°11'40.629"N	104°02'50.868"W	9.31	
8551.00	80.780	91.760	8286.31	208.18	-36.34	208.12	588461.10	434638.66	32°11'40.615"N	104°02'50.514"W	10.84	
8583.00	82.620	90.940	8290.93	239.84	-37.09	239.77	588492.75	434637.91	32°11'40.607"N	104°02'50.145"W	6.28	
8679.00	88.460	89.730	8298.39	335.50	-37.64	335.44	588588.41	434637.36	32°11'40.599"N	104°02'49.032"W	6.21	
8774.00	90.180	89.980	8299.52	430.49	-37.40	430.43	588683.39	434637.60	32°11'40.599"N	104°02'47.927"W	1.83	
8869.00	90.920	90.200	8298.61	525.49	-37.55	525.42	588778.38	434637.45	32°11'40.595"N	104°02'46.821"W	0.81	
8964.00	88.180	90.050	8299.36	620.47	-37.76	620.41	588873.36	434637.24	32°11'40.591"N	104°02'45.716"W	2.89	
9059.00	89.750	91.340	8301.07	715.45	-38.91	715.38	588968.32	434636.09	32°11'40.577"N	104°02'44.611"W	2.14	
9154.00	85.410	89.590	8305.08	810.33	-39.69	810.27	589063.20	434635.32	32°11'40.566"N	104°02'43.507"W	4.93	
9250.00	86.390	89.530	8311.95	906.08	-38.95	906.02	589158.94	434636.05	32°11'40.571"N	104°02'42.393"W	1.02	
9345.00	88.590	88.700	8316.11	1000.97	-37.48	1000.91	589253.82	434637.52	32°11'40.583"N	104°02'41.288"W	2.47	
9441.00	89.170	87.860	8317.98	1096.90	-34.60	1096.85	589349.75	434640.40	32°11'40.609"N	104°02'40.172"W	1.06	
9536.00	89.940	87.530	8318.72	1191.82	-30.78	1191.76	589444.66	434644.22	32°11'40.644"N	104°02'39.067"W	0.88	
9632.00	90.220	87.370	8318.59	1287.71	-26.51	1287.67	589540.56	434648.49	32°11'40.684"N	104°02'37.951"W	0.34	
9727.00	89.050	86.480	8319.19	1382.56	-21.41	1382.53	589635.41	434653.59	32°11'40.732"N	104°02'36.847"W	1.55	
9823.00	87.750	88.750	8321.87	1478.43	-17.42	1478.40	589731.27	434657.58	32°11'40.769"N	104°02'35.731"W	2.72	
9918.00	89.260	90.840	8324.35	1573.39	-17.08	1573.36	589826.23	434657.92	32°11'40.770"N	104°02'34.626"W	2.71	
10013.00	90.920	90.810	8324.20	1668.37	-18.45	1668.34	589921.20	434656.55	32°11'40.754"N	104°02'33.521"W	1.75	
10107.00	92.100	90.190	8321.72	1762.34	-19.27	1762.31	590015.16	434655.73	32°11'40.743"N	104°02'32.428"W	1.42	
10203.00	91.970	89.530	8318.32	1858.28	-19.04	1858.25	590111.09	434655.97	32°11'40.743"N	104°02'31.311"W	0.70	
10298.00	90.490	89.440	8316.28	1953.25	-18.18	1953.22	590206.05	434656.82	32°11'40.749"N	104°02'30.206"W	1.56	
10393.00	89.690	90.430	8316.13	2048.24	-18.07	2048.21	590301.04	434656.93	32°11'40.747"N	104°02'29.101"W	1.34	
10489.00	87.690	90.450	8318.32	2144.21	-18.81	2144.18	590397.00	434656.19	32°11'40.737"N	104°02'27.984"W	2.08	
10584.00	88.550	90.180	8321.44	2239.16	-19.33	2239.13	590491.94	434655.67	32°11'40.730"N	104°02'26.879"W	0.95	
10679.00	87.200	90.330	8324.96	2334.09	-19.76	2334.06	590586.86	434655.25	32°11'40.723"N	104°02'25.774"W	1.43	
10774.00	87.940	90.220	8328.99	2429.00	-20.21	2428.97	590681.77	434654.79	32°11'40.716"N	104°02'24.670"W	0.79	



Actual Wellpath Report

Paul 25 24S 28E RB No. 121H awp 44.84' - 13118' Proj: 13188'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	Paul 25 121H
Area	Eddy County, NM	Well	Paul 25 24S 28E RB No. 121H
Field	Willow Lake; Bone Spring (Eddy Co., NM)	Wellbore	Paul 25 121H AWB
Facility	Paul 25 121H		

WELLPATH DATA (146 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
10870.00	86.730	89.920	8333.45	2524.90	-20.33	2524.87	590777.65	434654.67	32°11'40.712"N	104°02'23.554"W	1.30	
10965.00	88.030	90.130	8337.79	2619.80	-20.37	2619.77	590872.55	434654.63	32°11'40.709"N	104°02'22.450"W	1.39	
11060.00	90.680	90.020	8338.86	2714.78	-20.49	2714.75	590967.52	434654.51	32°11'40.705"N	104°02'21.344"W	2.79	
11188.00	89.230	88.840	8338.96	2842.77	-19.22	2842.74	591095.50	434655.78	32°11'40.715"N	104°02'19.855"W	1.46	
11251.00	89.880	88.670	8339.45	2905.75	-17.85	2905.72	591158.48	434657.15	32°11'40.726"N	104°02'19.122"W	1.07	
11346.00	89.750	88.110	8339.76	3000.71	-15.18	3000.68	591253.43	434659.82	32°11'40.750"N	104°02'18.017"W	0.61	
11442.00	90.340	88.940	8339.69	3096.67	-12.71	3096.65	591349.39	434662.29	32°11'40.772"N	104°02'16.900"W	1.06	
11537.00	89.110	89.560	8340.14	3191.65	-11.47	3191.64	591444.37	434663.53	32°11'40.782"N	104°02'15.795"W	1.45	
11632.00	86.170	90.120	8344.05	3286.56	-11.20	3286.55	591539.27	434663.80	32°11'40.782"N	104°02'14.690"W	3.15	
11727.00	88.060	89.580	8348.83	3381.44	-10.95	3381.42	591634.14	434664.05	32°11'40.782"N	104°02'13.586"W	2.07	
11822.00	85.920	90.570	8353.82	3476.30	-11.08	3476.28	591728.99	434663.92	32°11'40.778"N	104°02'12.482"W	2.48	
11918.00	86.150	91.130	8360.46	3572.06	-12.50	3572.04	591824.74	434662.50	32°11'40.761"N	104°02'11.368"W	0.63	
12013.00	88.270	90.740	8365.08	3666.93	-14.05	3666.91	591919.60	434660.96	32°11'40.743"N	104°02'10.264"W	2.27	
12108.00	87.500	90.290	8368.59	3761.86	-14.90	3761.84	592014.53	434660.10	32°11'40.732"N	104°02'09.160"W	0.94	
12203.00	88.030	89.930	8372.30	3856.79	-15.08	3856.77	592109.45	434659.92	32°11'40.728"N	104°02'08.055"W	0.67	
12298.00	87.290	90.870	8376.17	3951.71	-15.74	3951.69	592204.35	434659.26	32°11'40.719"N	104°02'06.951"W	1.26	
12394.00	88.490	90.900	8379.71	4047.63	-17.23	4047.61	592300.27	434657.78	32°11'40.701"N	104°02'05.834"W	1.25	
12489.00	87.780	90.970	8382.80	4142.57	-18.78	4142.54	592395.20	434656.23	32°11'40.683"N	104°02'04.730"W	0.75	
12584.00	88.520	91.320	8385.87	4237.50	-20.67	4237.48	592490.12	434654.33	32°11'40.662"N	104°02'03.625"W	0.86	
12679.00	88.060	91.710	8388.70	4332.43	-23.18	4332.40	592585.04	434651.82	32°11'40.635"N	104°02'02.521"W	0.63	
12775.00	87.070	91.030	8392.78	4428.32	-25.48	4428.28	592680.91	434649.53	32°11'40.609"N	104°02'01.405"W	1.25	
12870.00	88.210	91.320	8396.69	4523.22	-27.42	4523.18	592775.80	434647.58	32°11'40.587"N	104°02'00.301"W	1.24	
12966.00	90.520	90.960	8397.76	4619.19	-29.33	4619.15	592871.76	434645.67	32°11'40.566"N	104°01'59.184"W	2.44	
13061.00	93.060	90.800	8394.79	4714.13	-30.79	4714.08	592966.69	434644.21	32°11'40.549"N	104°01'58.079"W	2.68	
13118.00	94.660	90.490	8390.95	4771.00	-31.43	4770.95	593023.55	434643.57	32°11'40.541"N	104°01'57.418"W	2.86	8 3/4 BHI MWD 2718' - 13118'
13188.00	94.660	90.490	8385.27	4840.76	-32.03	4840.72	593093.31	434642.97	32°11'40.533"N	104°01'56.606"W	0.00	Projection to TD: 13188'



Actual Wellpath Report

Paul 25 24S 28E RB No. 121H awp 44.84' - 13118' Proj: 13188'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	Paul 25 121H
Area	Eddy County, NM	Well	Paul 25 24S 28E RB No. 121H
Field	Willow Lake; Bone Spring (Eddy Co., NM)	Wellbore	Paul 25 121H AWB
Facility	Paul 25 121H		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Paul 25 121H 3500' VS rev 2	8331.00	-26.75	3500.48	591753.19	434648.25	32°11'40.622"N	104°02'12.201"W	point
Paul 25 121H LTP	8360.44	-29.00	4751.40	593004.00	434646.00	32°11'40.565"N	104°01'57.645"W	point
Paul 25 121H FTP	8376.70	-21.00	53.00	588306.00	434654.00	32°11'40.771"N	104°02'52.318"W	point
Paul 25 121H PBHL rev 5	8401.41	-29.00	4841.41	593094.00	434646.00	32°11'40.563"N	104°01'56.598"W	point

WELLPATH COMPOSITION - Ref Wellbore: Paul 25 121H AWB Ref Wellpath: Paul 25 24S 28E RB No. 121H awp 44.84' - 13118' Proj: 13188'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
29.00	572.00	BHI Generic gyro - northseeking (Standard)	Imported Gyro 44.84' - 572'	Paul 25 121H AWB
572.00	2644.00	BHI NaviTrak (Axial)	12 1/4 BHI MWD 641' - 2644'	Paul 25 121H AWB
2644.00	13118.00	BHI NaviTrak (Standard)	8 3/4 BHI MWD 2718' - 13118'	Paul 25 121H AWB
13118.00	13188.00	Blind Drilling (std)	Projection to bit	Paul 25 121H AWB



Actual Wellpath Report

Paul 25 24S 28E RB No. 121H awp 44.84' - 13118' Proj: 13188'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	Paul 25 121H
Area	Eddy County, NM	Well	Paul 25 24S 28E RB No. 121H
Field	Willow Lake; Bone Spring (Eddy Co., NM)	Wellbore	Paul 25 121H AWB
Facility	Paul 25 121H		

COMMENTS

Wellpath general comments

Well: Paul 25 24S 28E RB No. 121H

Field: Willow Lake; Bone Spring

Rig: Patterson 274

Location: Eddy Co., NM

API: 30-015-43011-00

Latitude: 32° 11' 40.981" N

Longitude: 104° 02' 52.934" W

DF Elevation: 2948 feet

Elev. GL: 2919 feet

Proposed Direction: 90.10°

PBHL: 13188 feet

Duration: 11/22/2016-12/03/2016

FSE's: D. Hardeman

SO#: 8269535

Imported Gyro 44.84' - 572'

12 1/4 BHI MWD 641' - 2644'

8 3/4 BHI MWD 2718' - 13118'

Projection to TD: 13188'