

MAY 14 2019

30.015-44246



DISTRICT II-ARTESIA O.C.D.

Actual Wellpath Report

Zach McCormick Federal Com No. 206H awp 200' - 14555' Proj: 14629'

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**BAKER
HUGHES**
a GE company


REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	Zach McCormick Fed 18-24S-29E RB No. 206H
Area	Eddy County, NM	Well	Zach McCormick Federal Com No. 206H
Field	Purple Sage; Wolfcamp (Eddy Co., NM)	Wellbore	Zach McCormick Fed 18-24S-29E RB No. 206H
Facility	Zach McCormick Fed 18-24S-29E RB Pad		

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 5.1
North Reference	Grid	User	Buiduyh
Scale	0.999919	Report Generated	28/Aug/2018 at 14:54
Convergence at slot	0.16° East	Database/Source file	WellArchitectDB/Zach_McCormick_Federal_Com_No._206H_awp_200_-14555_Proj_14629.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	592953.00	443312.00	32°13'06.328"N	104°01'57.957"W
Facility Reference Pt			592953.00	443312.00	32°13'06.328"N	104°01'57.957"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 297 (KB) to Facility Vertical Datum	2985.00ft
Horizontal Reference Pt	Slot	Rig: Patterson 297 (KB) to Mean Sea Level	2985.00ft
Vertical Reference Pt	Rig: Patterson 297 (KB)	Rig: Patterson 297 (KB) to Ground Level at Slot (Zach McCormick Fed 18-24S-29E RB No. 206H)	29.00ft
MD Reference Pt	Rig: Patterson 297 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	90.02°

We hereby certify that the surveys contained herein, are to the best of our knowledge a true and accurate account of the well.

MWD COORDINATOR



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Zach McCormick Federal Com No. 206H awp 200' - 14555' Proj: 14629'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Matador Resources		Slot
Area	Eddy County, NM		Zach McCormick Fed 18-24S-29E RB No. 206H
Field	Purple Sage; Wolfcamp (Eddy Co., NM)		Zach McCormick Federal Com No. 206H
Facility	Zach McCormick Fed 18-24S-29E RB Pad		Zach McCormick Fed 18-24S-29E RB No. 206H

WELLPATH DATA (145 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	21.620	0.00	0.00	0.00	0.00	592953.00	443312.00	32°13'06.328°N	104°01'57.957°W	0.00	
29.00	0.000	21.620	29.00	0.00	0.00	0.00	592953.00	443312.00	32°13'06.328°N	104°01'57.957°W	0.00	
200.00	0.710	21.620	200.00	0.39	0.98	0.39	592953.39	443312.98	32°13'06.338°N	104°01'57.952°W	0.42	
402.00	0.440	69.120	401.99	1.58	2.42	1.58	592954.58	443314.42	32°13'06.352°N	104°01'57.938°W	0.26	
444.00	0.530	80.620	443.98	1.92	2.51	1.92	592954.92	443314.51	32°13'06.353°N	104°01'57.934°W	0.31	17 1/2 BH MWD 200' - 444'
602.00	0.520	106.520	601.98	3.33	2.43	3.33	592956.33	443314.43	32°13'06.352°N	104°01'57.918°W	0.15	
784.00	0.410	66.570	783.97	4.72	2.45	4.72	592957.72	443314.45	32°13'06.352°N	104°01'57.902°W	0.18	
875.00	0.870	83.730	874.97	5.70	2.66	5.70	592958.70	443314.66	32°13'06.354°N	104°01'57.890°W	0.54	
968.00	2.000	91.320	967.94	8.02	2.70	8.03	592961.03	443314.70	32°13'06.354°N	104°01'57.863°W	1.23	
1062.00	3.730	94.850	1061.82	12.71	2.40	12.71	592965.71	443314.40	32°13'06.351°N	104°01'57.809°W	1.85	
1155.00	4.300	98.610	1154.59	19.17	1.62	19.17	592972.17	443313.62	32°13'06.344°N	104°01'57.733°W	0.67	
1249.00	4.080	100.340	1248.34	25.95	0.50	25.95	592978.95	443312.50	32°13'06.332°N	104°01'57.655°W	0.27	
1343.00	4.390	100.510	1342.08	32.78	-0.76	32.78	592985.77	443311.24	32°13'06.320°N	104°01'57.575°W	0.33	
1436.00	5.130	97.230	1434.76	40.40	-1.93	40.40	592993.40	443310.07	32°13'06.308°N	104°01'57.486°W	0.85	
1530.00	5.260	96.950	1528.37	48.85	-2.98	48.85	593001.84	443309.02	32°13'06.297°N	104°01'57.388°W	0.14	
1624.00	4.560	98.580	1622.03	56.82	-4.06	56.82	593009.81	443307.94	32°13'06.286°N	104°01'57.295°W	0.76	
1717.00	3.930	99.110	1714.77	63.62	-5.12	63.62	593016.62	443306.88	32°13'06.276°N	104°01'57.216°W	0.68	
1811.00	4.460	95.780	1808.52	70.44	-6.00	70.44	593023.43	443306.00	32°13'06.267°N	104°01'57.137°W	0.62	
1998.00	4.900	96.650	1994.89	85.61	-7.65	85.60	593038.60	443304.35	32°13'06.250°N	104°01'56.960°W	0.24	
2185.00	4.320	100.070	2181.29	100.47	-9.81	100.47	593053.46	443302.19	32°13'06.228°N	104°01'56.787°W	0.34	
2373.00	5.540	106.230	2368.59	116.16	-13.58	116.16	593069.15	443298.42	32°13'06.190°N	104°01'56.605°W	0.71	
2560.00	4.760	108.170	2554.84	132.20	-18.53	132.20	593085.19	443293.47	32°13'06.141°N	104°01'56.418°W	0.43	
2653.00	4.190	107.030	2647.55	139.12	-20.73	139.11	593092.10	443291.28	32°13'06.119°N	104°01'56.338°W	0.62	
2702.00	3.800	104.930	2696.43	142.40	-21.67	142.39	593095.38	443290.33	32°13'06.110°N	104°01'56.300°W	0.85	12 1/4 BH MWD 602' - 2702'
2851.00	3.400	100.850	2845.14	151.51	-23.77	151.50	593104.49	443288.23	32°13'06.089°N	104°01'56.194°W	0.32	
2945.00	3.960	100.000	2938.94	157.44	-24.86	157.44	593110.42	443287.14	32°13'06.078°N	104°01'56.125°W	0.60	
3132.00	6.210	99.420	3125.20	173.78	-27.64	173.77	593126.76	443284.37	32°13'06.050°N	104°01'55.935°W	1.20	
3319.00	6.130	100.440	3311.11	193.58	-31.10	193.57	593146.56	443280.90	32°13'06.015°N	104°01'55.704°W	0.07	
3506.00	5.500	98.360	3497.15	212.27	-34.21	212.26	593165.24	443277.79	32°13'05.984°N	104°01'55.487°W	0.36	
3694.00	3.240	93.100	3684.59	226.49	-35.81	226.48	593179.48	443276.19	32°13'05.967°N	104°01'55.322°W	1.22	



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Field	Purple Sage; Wolfcamp (Eddy Co., NM)	Wellbore	Zach McCormick Fed 18-24S-29E RB No. 206H
Facility	Zach McCormick Fed 18-24S-29E RB Pad		

WELLPATH DATA (145 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
3881.00	3.930	93.570	3871.22	238.16	-36.50	238.15	593191.13	443275.51	32°13'05.960"N	104°01'55.186"W	0.37	
3975.00	3.550	93.100	3965.02	244.28	-36.85	244.27	593197.25	443275.15	32°13'05.957"N	104°01'55.115"W	0.41	
4068.00	3.750	85.220	4057.84	250.19	-36.76	250.18	593203.16	443275.25	32°13'05.957"N	104°01'55.046"W	0.58	
4162.00	2.990	83.090	4151.67	255.69	-36.20	255.67	593208.65	443275.80	32°13'05.963"N	104°01'54.982"W	0.82	
4349.00	0.940	99.530	4338.55	262.04	-35.87	262.03	593215.01	443276.13	32°13'05.966"N	104°01'54.908"W	1.13	
4536.00	0.990	107.280	4525.53	265.10	-36.61	265.08	593218.06	443275.40	32°13'05.958"N	104°01'54.872"W	0.07	
4723.00	1.110	118.390	4712.50	268.23	-37.95	268.22	593221.20	443274.06	32°13'05.945"N	104°01'54.836"W	0.13	
4911.00	1.180	125.820	4900.46	271.41	-39.95	271.39	593224.37	443272.06	32°13'05.925"N	104°01'54.799"W	0.09	
5097.00	0.810	163.280	5086.43	273.34	-42.33	273.32	593226.30	443269.68	32°13'05.902"N	104°01'54.777"W	0.39	
5285.00	0.840	205.200	5274.41	273.13	-44.85	273.12	593226.10	443267.16	32°13'05.877"N	104°01'54.779"W	0.31	
5472.00	0.750	179.420	5461.40	272.56	-47.31	272.55	593225.53	443264.69	32°13'05.852"N	104°01'54.786"W	0.20	
5660.00	0.520	185.070	5649.39	272.50	-49.39	272.48	593225.46	443262.61	32°13'05.832"N	104°01'54.787"W	0.13	
5847.00	0.940	210.360	5836.37	271.65	-51.56	271.63	593224.61	443260.45	32°13'05.810"N	104°01'54.797"W	0.28	
6034.00	1.100	206.400	6023.34	270.08	-54.49	270.06	593223.04	443257.51	32°13'05.781"N	104°01'54.815"W	0.09	
6221.00	1.270	203.220	6210.30	268.47	-58.00	268.45	593221.42	443254.00	32°13'05.747"N	104°01'54.834"W	0.10	
6409.00	0.520	249.610	6398.28	266.85	-60.21	266.83	593219.80	443251.79	32°13'05.725"N	104°01'54.853"W	0.52	
6596.00	1.790	258.580	6585.24	263.19	-61.09	263.17	593216.14	443250.92	32°13'05.716"N	104°01'54.895"W	0.68	
6783.00	2.990	241.290	6772.07	256.05	-64.01	256.03	593209.00	443248.00	32°13'05.688"N	104°01'54.979"W	0.74	
6970.00	2.400	224.450	6958.87	249.03	-69.15	249.01	593201.99	443242.86	32°13'05.637"N	104°01'55.060"W	0.52	
7157.00	1.880	146.120	7145.77	248.00	-74.49	247.97	593200.95	443237.52	32°13'05.584"N	104°01'55.073"W	1.46	
7344.00	0.940	125.360	7332.71	250.96	-77.92	250.94	593203.91	443234.08	32°13'05.550"N	104°01'55.038"W	0.56	
7438.00	0.790	56.930	7426.71	252.13	-78.02	252.11	593205.09	443233.99	32°13'05.549"N	104°01'55.025"W	1.04	
7532.00	0.480	36.980	7520.70	252.91	-77.35	252.89	593205.87	443234.66	32°13'05.556"N	104°01'55.016"W	0.40	
7625.00	0.730	340.690	7613.69	252.95	-76.48	252.93	593205.90	443235.53	32°13'05.564"N	104°01'55.015"W	0.66	
7719.00	3.340	278.420	7707.63	250.04	-75.51	250.02	593203.00	443236.49	32°13'05.574"N	104°01'55.049"W	3.26	
7813.00	3.400	290.790	7801.47	244.73	-74.12	244.70	593197.68	443237.88	32°13'05.588"N	104°01'55.111"W	0.77	
7906.00	5.040	300.770	7894.22	238.64	-71.05	238.61	593191.59	443240.95	32°13'05.618"N	104°01'55.181"W	1.93	
7969.00	6.110	298.010	7956.92	233.30	-68.06	233.28	593186.26	443243.94	32°13'05.648"N	104°01'55.244"W	1.75	
8000.00	5.400	294.420	7987.76	230.52	-66.68	230.49	593183.47	443245.32	32°13'05.662"N	104°01'55.276"W	2.57	
8031.00	4.520	291.160	8018.65	228.05	-65.64	228.02	593181.01	443246.37	32°13'05.672"N	104°01'55.305"W	2.98	



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Zach McCormick Federal Com No. 206H awp 200' - 14555' Proj: 14629'
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Operator	Matador Resources	Slot	Zach McCormick Fed 18-24S-29E RB No. 206H
Area	Eddy County, NM	Well	Zach McCormick Federal Com No. 206H
Field	Purple Sage; Wolfcamp (Eddy Co., NM)	Wellbore	Zach McCormick Fed 18-24S-29E RB No. 206H
Facility	Zach McCormick Fed 18-24S-29E RB Pad		

WELLPATH DATA (145 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
8062.00	3.100	282.850	8049.58	226.09	-65.01	226.07	593179.05	443246.99	32°13'05.678"N	104°01'55.327"W	4.90	
8093.00	2.340	270.950	8080.54	224.64	-64.82	224.62	593177.60	443247.19	32°13'05.680"N	104°01'55.344"W	3.04	
8124.00	1.850	269.850	8111.52	223.51	-64.81	223.48	593176.47	443247.20	32°13'05.681"N	104°01'55.357"W	1.59	
8187.00	0.680	291.390	8174.51	222.14	-64.67	222.12	593175.10	443247.33	32°13'05.682"N	104°01'55.373"W	1.97	
8280.00	1.350	30.490	8267.50	222.18	-63.53	222.16	593175.14	443248.48	32°13'05.693"N	104°01'55.373"W	1.73	
8374.00	0.530	35.250	8361.48	223.00	-62.22	222.97	593175.96	443249.79	32°13'05.706"N	104°01'55.363"W	0.88	
8467.00	1.200	48.040	8454.47	223.97	-61.22	223.95	593176.93	443250.79	32°13'05.716"N	104°01'55.352"W	0.75	
8561.00	1.860	40.980	8548.44	225.70	-59.41	225.68	593178.66	443252.60	32°13'05.734"N	104°01'55.332"W	0.73	
8610.00	1.230	33.280	8597.42	226.51	-58.37	226.49	593179.47	443253.64	32°13'05.744"N	104°01'55.322"W	1.35	
8655.00	0.580	39.260	8642.41	226.92	-57.79	226.90	593179.88	443254.22	32°13'05.750"N	104°01'55.317"W	1.46	
8748.00	0.500	104.780	8735.41	227.61	-57.53	227.59	593180.57	443254.48	32°13'05.752"N	104°01'55.309"W	0.63	
8842.00	0.500	120.720	8829.41	228.36	-57.84	228.34	593181.32	443254.17	32°13'05.749"N	104°01'55.301"W	0.15	
8936.00	0.380	176.200	8923.40	228.73	-58.36	228.71	593181.69	443253.64	32°13'05.744"N	104°01'55.296"W	0.45	
9029.00	0.360	243.790	9016.40	228.49	-58.80	228.47	593181.45	443253.21	32°13'05.740"N	104°01'55.299"W	0.44	
9060.00	0.600	251.100	9047.40	228.25	-58.89	228.23	593181.21	443253.11	32°13'05.739"N	104°01'55.302"W	0.80	
9100.00	0.070	228.790	9087.40	228.03	-58.98	228.01	593180.99	443253.03	32°13'05.738"N	104°01'55.304"W	1.34	
9153.00	5.890	73.430	9140.31	230.62	-58.22	230.60	593183.58	443253.78	32°13'05.745"N	104°01'55.274"W	11.23	
9202.00	13.070	70.380	9188.61	238.25	-55.64	238.24	593191.22	443256.36	32°13'05.771"N	104°01'55.185"W	14.68	
9247.00	18.520	76.000	9231.89	249.99	-52.20	249.97	593202.95	443259.80	32°13'05.805"N	104°01'55.049"W	12.57	
9340.00	30.020	69.580	9316.55	286.25	-40.47	286.23	593239.21	443271.53	32°13'05.920"N	104°01'54.626"W	12.67	
9387.00	36.360	65.420	9355.87	309.96	-30.56	309.95	593262.92	443281.44	32°13'06.017"N	104°01'54.350"W	14.33	
9434.00	40.330	65.790	9392.72	336.51	-18.52	336.50	593289.47	443293.48	32°13'06.135"N	104°01'54.040"W	8.46	
9481.00	42.840	66.980	9427.87	365.08	-6.04	365.08	593318.05	443305.96	32°13'06.258"N	104°01'53.707"W	5.60	
9528.00	43.900	66.940	9462.04	394.78	6.60	394.78	593347.75	443318.60	32°13'06.382"N	104°01'53.361"W	2.26	
9575.00	45.630	67.410	9495.44	425.25	19.42	425.26	593378.23	443331.42	32°13'06.508"N	104°01'53.006"W	3.54	
9621.00	45.890	66.990	9527.56	455.60	32.18	455.62	593408.58	443344.18	32°13'06.634"N	104°01'52.652"W	1.02	
9668.00	46.100	66.460	9560.21	486.65	45.54	486.67	593439.63	443357.54	32°13'06.765"N	104°01'52.290"W	0.93	
9715.00	49.140	70.050	9591.89	518.89	58.37	518.91	593471.87	443370.37	32°13'06.891"N	104°01'51.915"W	8.58	
9762.00	51.300	76.490	9621.98	553.46	68.73	553.48	593506.43	443380.72	32°13'06.993"N	104°01'51.512"W	11.49	
9808.00	54.590	84.400	9649.72	589.61	74.76	589.63	593542.59	443386.75	32°13'07.051"N	104°01'51.091"W	15.47	



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Zach McCormick Federal Com No. 206H awp 200' - 14555' Proj: 14629'
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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	Zach McCormick Fed 18-24S-29E RB No. 206H
Area	Eddy County, NM	Well	Zach McCormick Federal Com No. 206H
Field	Purple Sage; Wolfcamp (Eddy Co., NM)	Wellbore	Zach McCormick Fed 18-24S-29E RB No. 206H
Facility	Zach McCormick Fed 18-24S-29E RB Pad		

WELLPATH DATA (145 stations)

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9857.00	58.110	91.500	9676.89	630.33	76.17	630.35	593583.30	443388.16	32°13'07.064"N	104°01'50.617"W	14.03	
9902.00	61.770	93.410	9699.43	669.23	74.49	669.25	593622.20	443386.48	32°13'07.046"N	104°01'50.164"W	8.92	
9933.00	64.490	93.240	9713.44	696.83	72.88	696.86	593649.80	443384.88	32°13'07.030"N	104°01'49.843"W	8.79	
9986.00	71.570	92.810	9733.26	745.88	70.29	745.91	593698.85	443382.29	32°13'07.003"N	104°01'49.272"W	13.38	8 3/4 BH MWD 2851' - 9986'
10085.00	84.110	93.520	9754.07	842.32	64.95	842.35	593795.28	443376.94	32°13'06.947"N	104°01'48.150"W	12.69	
10122.00	87.940	92.540	9756.64	879.18	63.00	879.20	593832.13	443374.99	32°13'06.927"N	104°01'47.721"W	10.68	
10153.00	88.370	92.220	9757.63	910.13	61.71	910.16	593863.08	443373.71	32°13'06.913"N	104°01'47.361"W	1.73	
10248.00	89.320	92.400	9759.55	1005.04	57.88	1005.06	593957.97	443369.88	32°13'06.873"N	104°01'46.256"W	1.02	
10342.00	86.880	91.650	9762.66	1098.92	54.56	1098.94	594051.85	443366.56	32°13'06.837"N	104°01'45.163"W	2.72	
10436.00	87.630	89.950	9767.17	1192.80	53.25	1192.82	594145.72	443365.25	32°13'06.822"N	104°01'44.071"W	1.97	
10531.00	88.000	89.750	9770.79	1287.73	53.50	1287.75	594240.64	443365.50	32°13'06.822"N	104°01'42.966"W	0.44	
10625.00	87.970	88.620	9774.09	1381.66	54.84	1381.68	594334.56	443366.83	32°13'06.832"N	104°01'41.872"W	1.20	
10720.00	87.130	87.290	9778.16	1476.51	58.22	1476.53	594429.41	443370.22	32°13'06.863"N	104°01'40.768"W	1.65	
10814.00	87.320	86.560	9782.71	1570.26	63.26	1570.28	594523.15	443375.25	32°13'06.910"N	104°01'39.677"W	0.80	
10908.00	87.040	86.410	9787.33	1663.97	69.02	1663.99	594616.85	443381.01	32°13'06.964"N	104°01'38.586"W	0.34	
11002.00	86.920	86.130	9792.28	1757.64	75.12	1757.66	594710.52	443387.12	32°13'07.022"N	104°01'37.495"W	0.32	
11096.00	90.180	88.090	9794.66	1851.47	79.86	1851.50	594804.34	443391.85	32°13'07.066"N	104°01'36.403"W	4.05	
11190.00	89.320	89.230	9795.07	1945.44	82.06	1945.47	594898.31	443394.05	32°13'07.086"N	104°01'35.309"W	1.52	
11285.00	87.540	89.150	9797.67	2040.39	83.40	2040.42	594993.25	443395.39	32°13'07.096"N	104°01'34.204"W	1.88	
11379.00	86.910	88.480	9802.23	2134.26	85.34	2134.29	595087.11	443397.33	32°13'07.113"N	104°01'33.111"W	0.98	
11473.00	87.050	88.130	9807.18	2228.08	88.12	2228.12	595180.93	443400.11	32°13'07.138"N	104°01'32.019"W	0.40	
11568.00	89.450	89.610	9810.08	2323.01	89.99	2323.04	595275.85	443401.98	32°13'07.153"N	104°01'30.914"W	2.97	
11662.00	90.150	89.960	9810.41	2417.01	90.34	2417.04	595369.84	443402.33	32°13'07.154"N	104°01'29.820"W	0.83	
11756.00	84.120	90.150	9815.10	2510.85	90.25	2510.88	595463.67	443402.24	32°13'07.151"N	104°01'28.728"W	6.42	
11851.00	85.840	88.220	9823.42	2605.47	91.60	2605.50	595558.28	443403.59	32°13'07.161"N	104°01'27.626"W	2.72	
11945.00	90.490	90.050	9826.43	2699.38	93.02	2699.41	595652.19	443405.01	32°13'07.173"N	104°01'26.533"W	5.32	
12040.00	90.580	89.760	9825.54	2794.37	93.17	2794.40	595747.17	443405.17	32°13'07.171"N	104°01'25.428"W	0.32	
12134.00	87.100	89.110	9827.44	2888.33	94.10	2888.37	595841.13	443406.09	32°13'07.178"N	104°01'24.334"W	3.77	
12228.00	86.770	89.230	9832.47	2982.19	95.46	2982.22	595934.97	443407.45	32°13'07.189"N	104°01'23.241"W	0.37	
12322.00	86.580	89.250	9837.92	3076.02	96.70	3076.06	596028.80	443408.70	32°13'07.198"N	104°01'22.149"W	0.20	



Actual Wellpath Report

Zach McCormick Federal Com No. 206H awp 200' - 14555' Proj: 14629'
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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	Zach McCormick Fed 18-24S-29E RB No. 206H
Area	Eddy County, NM	Well	Zach McCormick Federal Com No. 206H
Field	Purple Sage; Wolfcamp (Eddy Co., NM)	Wellbore	Zach McCormick Fed 18-24S-29E RB No. 206H
Facility	Zach McCormick Fed 18-24S-29E RB Pad		

WELLPATH DATA (145 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
12417.00	86.790	89.030	9843.41	3170.85	98.13	3170.89	596123.62	443410.12	32°13'07.210"N	104°01'21.045"W	0.32	
12511.00	90.220	91.990	9845.87	3264.79	97.29	3264.83	596217.55	443409.28	32°13'07.199"N	104°01'19.952"W	4.82	
12606.00	90.490	91.850	9845.28	3359.74	94.11	3359.77	596312.49	443406.10	32°13'07.165"N	104°01'18.847"W	0.32	
12700.00	90.620	92.280	9844.37	3453.67	90.72	3453.70	596406.42	443402.71	32°13'07.128"N	104°01'17.754"W	0.48	
12794.00	87.290	91.720	9846.08	3547.59	87.44	3547.62	596500.32	443399.43	32°13'07.093"N	104°01'16.661"W	3.59	
12889.00	87.230	91.560	9850.62	3642.44	84.72	3642.47	596595.17	443396.72	32°13'07.064"N	104°01'15.557"W	0.18	
12983.00	87.470	91.650	9854.97	3736.30	82.09	3736.33	596689.02	443394.09	32°13'07.035"N	104°01'14.464"W	0.27	
13077.00	88.240	91.470	9858.49	3830.20	79.54	3830.23	596782.91	443391.53	32°13'07.007"N	104°01'13.371"W	0.84	
13172.00	89.880	91.760	9860.04	3925.15	76.86	3925.18	596877.85	443388.85	32°13'06.978"N	104°01'12.266"W	1.75	
13266.00	89.800	90.420	9860.47	4019.13	75.07	4019.16	596971.82	443387.07	32°13'06.957"N	104°01'11.172"W	1.48	
13360.00	86.820	88.150	9863.41	4113.06	76.24	4113.09	597065.75	443388.24	32°13'06.966"N	104°01'10.079"W	3.82	
13455.00	86.790	88.340	9868.70	4207.87	79.15	4207.90	597160.55	443391.14	32°13'06.992"N	104°01'08.975"W	0.20	
13549.00	86.670	88.000	9874.06	4301.67	82.14	4301.70	597254.34	443394.14	32°13'07.019"N	104°01'07.884"W	0.38	
13644.00	86.220	87.840	9879.96	4396.42	85.59	4396.45	597349.08	443397.58	32°13'07.050"N	104°01'06.781"W	0.50	
13738.00	89.440	89.450	9883.51	4490.31	87.81	4490.34	597442.97	443399.80	32°13'07.070"N	104°01'05.688"W	3.83	
13833.00	88.370	87.530	9885.33	4585.25	90.31	4585.28	597537.90	443402.30	32°13'07.092"N	104°01'04.582"W	2.31	
13927.00	89.600	88.250	9886.99	4679.17	93.77	4679.20	597631.82	443405.76	32°13'07.123"N	104°01'03.489"W	1.52	
14021.00	87.530	87.730	9889.35	4773.08	97.06	4773.11	597725.71	443409.06	32°13'07.153"N	104°01'02.396"W	2.27	
14116.00	88.950	88.440	9892.27	4867.97	100.24	4868.01	597820.61	443412.23	32°13'07.182"N	104°01'01.291"W	1.67	
14210.00	89.910	89.100	9893.20	4961.95	102.25	4961.98	597914.57	443414.25	32°13'07.199"N	104°01'00.197"W	1.24	
14304.00	86.580	87.520	9896.08	5055.84	105.02	5055.88	598008.46	443417.01	32°13'07.224"N	104°00'59.104"W	3.92	
14398.00	89.600	89.940	9899.21	5149.75	107.10	5149.79	598102.36	443419.09	32°13'07.241"N	104°00'58.011"W	4.12	
14492.00	86.460	87.630	9902.44	5243.65	109.09	5243.69	598196.26	443421.08	32°13'07.258"N	104°00'56.918"W	4.15	
14555.00	87.880	88.140	9905.56	5306.53	111.42	5306.57	598259.13	443423.41	32°13'07.279"N	104°00'56.186"W	2.39	6 1/8 BH MWD 10085' - 14555'
14629.00	87.880	88.140	9908.29	5380.44	113.82	5380.48	598333.04	443425.81	32°13'07.301"N	104°00'55.326"W	10.00	Projection to TD: 14629'



Actual Wellpath Report

Zach McCormick Federal Com No. 206H awp 200' - 14555' Proj: 14629'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Matador Resources	Slot	Zach McCormick Fed 18-24S-29E RB No. 206H
Area	Eddy County, NM	Well	Zach McCormick Federal Com No. 206H
Field	Purple Sage; Wolfcamp (Eddy Co., NM)	Wellbore	Zach McCormick Fed 18-24S-29E RB No. 206H
Facility	Zach McCormick Fed 18-24S-29E RB Pad		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Zack McCormick Fed No. 206H FTP rev 1	9729.00	95.01	641.05	593594.00	443407.00	32°13'07.250"N	104°01'50.492"W	point
Zack McCormick Fed No. 206H LTP rev 1	9878.79	93.01	5272.44	598225.00	443405.00	32°13'07.098"N	104°00'56.584"W	point
Zack McCormick Fed No. 206H PBHL rev 1	9878.79	93.01	5362.45	598315.00	443405.00	32°13'07.096"N	104°00'55.536"W	point

WELLPATH COMPOSITION - Ref Wellbore: Zach McCormick Fed 18-24S-29E RB No. 206H. Ref Wellpath: Zach McCormick Federal Com No. 206H awp 200' - 14555' Proj: 14629'				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
29.00	444.00	BHI NaviTrak (Axial)	17 1/2 BH MWD 200' - 444'	Zach McCormick Fed 18-24S-29E RB No. 206H
444.00	2702.00	BHI NaviTrak (Axial)	12 1/4 BH MWD 602' - 2702'	Zach McCormick Fed 18-24S-29E RB No. 206H
2702.00	9986.00	BHI NaviTrak (X Short spacing)	8 3/4 BH MWD 2851' - 9986'	Zach McCormick Fed 18-24S-29E RB No. 206H
9986.00	14555.00	BHI NaviTrak (X Short spacing)	6 1/8 BH MWD 10085' - 14555'	Zach McCormick Fed 18-24S-29E RB No. 206H
14555.00	14629.00	Blind Drilling (std)	Projection to bit	Zach McCormick Fed 18-24S-29E RB No. 206H



Actual Wellpath Report

Zach McCormick Federal Com No. 206H awp 200' - 14555' Proj: 14629'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Matador Resources	Slot	Zach McCormick Fed 18-24S-29E RB No. 206H
Area	Eddy County, NM	Well	Zach McCormick Federal Com No. 206H
Field	Purple Sage; Wolfcamp (Eddy Co., NM)	Wellbore	Zach McCormick Fed 18-24S-29E RB No. 206H
Facility	Zach McCormick Fed 18-24S-29E RB Pad		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
444.00	0.530	80.620	443.98	17 1/2 BH MWD 200' - 444'
2702.00	3.800	104.930	2696.43	12 1/4 BH MWD 602' - 2702'
9986.00	71.570	92.810	9733.26	8 3/4 BH MWD 2851' - 9986'
14555.00	87.880	88.140	9905.56	6 1/8 BH MWD 10085' - 14555'
14629.00	87.880	88.140	9908.29	Projection to TD: 14629'



Actual Wellpath Report

Zach McCormick Federal Com No. 206H awp 200' - 14555' Proj: 14629'
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**BAKER
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Matador Resources	Slot	Zach McCormick Fed 18-24S-29E RB No. 206H
Area	Eddy County, NM	Well	Zach McCormick Federal Com No. 206H
Field	Purple Sage; Wolfcamp (Eddy Co., NM)	Wellbore	Zach McCormick Fed 18-24S-29E RB No. 206H
Facility	Zach McCormick Fed 18-24S-29E RB Pad		

COMMENTS

Wellpath general comments

Well: Zach McCormick Federal Com No. 206H
Field: Purple Sage; Wolfcamp
Rig: Patterson 297
Location: Eddy Co., NM
API: 30-015-44246-00
Latitude: 32° 13' 06.328" N
Longitude: 104° 01' 57.957" W
DF Elevation: 2985 feet
Elev. GL: 2956 feet
Proposed Direction: 90.02°
PBHL: 14629 feet
Duration: 5/23/2018-7/22/2018
FSE's: W. Burge
SO#: 9183141
17 1/2 BH MWD 200' - 444'
12 1/4 BH MWD 602' - 2702'
8 3/4 BH MWD 2851' - 9986'
6 1/8 BH MWD 10085' - 14555'
Projection to TD: 14629'