



Planned Wellpath Report

SD EA 29 FED COM P8 12H Rev B.0

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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD EA 29 FED COM P8 12H
Area	Lea County, NM	Well	SD EA 29 FED COM P8 12H
Field	Jennings / Upper BN SPR Shale (Lea County, NM)	Wellbore	SD EA 29 FED COM P8 12H PWB
Facility	SD EA 29 Fed Com P8		

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 5.0
North Reference	Grid	User	Tranlam
Scale	0.999970	Report Generated	5/10/2017 at 3:28:57 PM
Convergence at slot	0.39° East	Database/Source file	WA_Midland/SD_EA_29_FED_COM_P8_12H_Rev_B.0.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	730235.00	372253.00	32°01'16.543"N	103°35'25.673"W
Facility Reference Pt			730235.00	372253.00	32°01'16.543"N	103°35'25.673"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: Nabors X30 (KB) to Facility Vertical Datum	3279.60ft
Horizontal Reference Pt	Slot	Rig: Nabors X30 (KB) to Mean Sea Level	3279.60ft
Vertical Reference Pt	Rig: Nabors X30 (KB)	Rig: Nabors X30 (KB) to Ground Level at Slot (SD EA 29 FED COM P8 12H)	32.60ft
MD Reference Pt	Rig: Nabors X30 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	179.57°



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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]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
0.00†	0.000	133.000	0.00	0.00	0.00	0.00	730235.00	372253.00	32°01'16.543"N	103°35'25.673"W	0.00	0.00	0.00	
32.60	0.000	133.000	32.60	0.00	0.00	0.00	730235.00	372253.00	32°01'16.543"N	103°35'25.673"W	0.00	0.00	0.00	Tie On
132.60†	0.000	133.000	132.60	0.00	0.00	0.00	730235.00	372253.00	32°01'16.543"N	103°35'25.673"W	0.00	0.00	0.00	
232.60†	0.000	133.000	232.60	0.00	0.00	0.00	730235.00	372253.00	32°01'16.543"N	103°35'25.673"W	0.00	0.00	0.00	
332.60†	0.000	133.000	332.60	0.00	0.00	0.00	730235.00	372253.00	32°01'16.543"N	103°35'25.673"W	0.00	0.00	0.00	
432.60†	0.000	133.000	432.60	0.00	0.00	0.00	730235.00	372253.00	32°01'16.543"N	103°35'25.673"W	0.00	0.00	0.00	
532.60†	0.000	133.000	532.60	0.00	0.00	0.00	730235.00	372253.00	32°01'16.543"N	103°35'25.673"W	0.00	0.00	0.00	
632.60†	0.000	133.000	632.60	0.00	0.00	0.00	730235.00	372253.00	32°01'16.543"N	103°35'25.673"W	0.00	0.00	0.00	
732.60†	0.000	133.000	732.60	0.00	0.00	0.00	730235.00	372253.00	32°01'16.543"N	103°35'25.673"W	0.00	0.00	0.00	
832.60†	0.000	133.000	832.60	0.00	0.00	0.00	730235.00	372253.00	32°01'16.543"N	103°35'25.673"W	0.00	0.00	0.00	
932.60†	0.000	133.000	932.60	0.00	0.00	0.00	730235.00	372253.00	32°01'16.543"N	103°35'25.673"W	0.00	0.00	0.00	
1032.60†	0.000	133.000	1032.60	0.00	0.00	0.00	730235.00	372253.00	32°01'16.543"N	103°35'25.673"W	0.00	0.00	0.00	
1132.60†	0.000	133.000	1132.60	0.00	0.00	0.00	730235.00	372253.00	32°01'16.543"N	103°35'25.673"W	0.00	0.00	0.00	
1232.60†	0.000	133.000	1232.60	0.00	0.00	0.00	730235.00	372253.00	32°01'16.543"N	103°35'25.673"W	0.00	0.00	0.00	
1332.60†	0.000	133.000	1332.60	0.00	0.00	0.00	730235.00	372253.00	32°01'16.543"N	103°35'25.673"W	0.00	0.00	0.00	
1432.60†	0.000	133.000	1432.60	0.00	0.00	0.00	730235.00	372253.00	32°01'16.543"N	103°35'25.673"W	0.00	0.00	0.00	
1532.60†	0.000	133.000	1532.60	0.00	0.00	0.00	730235.00	372253.00	32°01'16.543"N	103°35'25.673"W	0.00	0.00	0.00	
1632.60†	0.000	133.000	1632.60	0.00	0.00	0.00	730235.00	372253.00	32°01'16.543"N	103°35'25.673"W	0.00	0.00	0.00	
1732.60†	0.000	133.000	1732.60	0.00	0.00	0.00	730235.00	372253.00	32°01'16.543"N	103°35'25.673"W	0.00	0.00	0.00	
1832.60†	0.000	133.000	1832.60	0.00	0.00	0.00	730235.00	372253.00	32°01'16.543"N	103°35'25.673"W	0.00	0.00	0.00	
1900.00	0.000	133.000	1900.00	0.00	0.00	0.00	730235.00	372253.00	32°01'16.543"N	103°35'25.673"W	0.00	0.00	0.00	End of Tangent
1932.60†	0.326	133.000	1932.60	0.06	-0.06	0.07	730235.07	372252.94	32°01'16.543"N	103°35'25.672"W	1.00	1.00	407.98	
2032.60†	1.326	133.000	2032.59	1.05	-1.05	1.12	730236.12	372251.95	32°01'16.533"N	103°35'25.660"W	1.00	1.00	0.00	
2132.60†	2.326	133.000	2132.54	3.25	-3.22	3.45	730238.45	372249.78	32°01'16.511"N	103°35'25.633"W	1.00	1.00	0.00	
2232.60†	3.326	133.000	2232.41	6.63	-6.58	7.06	730242.06	372246.42	32°01'16.478"N	103°35'25.592"W	1.00	1.00	0.00	
2332.60†	4.326	133.000	2332.19	11.22	-11.13	11.94	730246.94	372241.87	32°01'16.432"N	103°35'25.535"W	1.00	1.00	0.00	
2432.60†	5.326	133.000	2431.83	17.01	-16.87	18.09	730253.09	372236.13	32°01'16.375"N	103°35'25.464"W	1.00	1.00	0.00	
2532.60†	6.326	133.000	2531.32	23.98	-23.79	25.51	730260.51	372229.21	32°01'16.306"N	103°35'25.379"W	1.00	1.00	0.00	
2632.60†	7.326	133.000	2630.61	32.15	-31.90	34.21	730269.21	372221.10	32°01'16.225"N	103°35'25.278"W	1.00	1.00	0.00	
2732.60†	8.326	133.000	2729.67	41.52	-41.19	44.17	730279.16	372211.82	32°01'16.133"N	103°35'25.163"W	1.00	1.00	0.00	



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Field	Jennings / Upper BN SPR Shale (Lea County, NM)	Wellbore	SD EA 29 FED COM P8 12H PWB
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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]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
2832.60†	9.326	133.000	2828.49	52.06	-51.65	55.39	730290.39	372201.35	32°01'16.028"N	103°35'25.034"W	1.00	1.00	0.00	
2900.00	10.000	133.000	2894.93	59.84	-59.36	63.66	730298.66	372193.64	32°01'15.951"N	103°35'24.938"W	1.00	1.00	0.00	End of Build
2932.60†	10.000	133.000	2927.04	63.73	-63.23	67.80	730302.80	372189.78	32°01'15.913"N	103°35'24.891"W	0.00	0.00	0.00	
3032.60†	10.000	133.000	3025.52	75.67	-75.07	80.50	730315.50	372177.93	32°01'15.795"N	103°35'24.744"W	0.00	0.00	0.00	
3132.60†	10.000	133.000	3124.00	87.61	-86.91	93.20	730328.20	372166.09	32°01'15.677"N	103°35'24.598"W	0.00	0.00	0.00	
3232.60†	10.000	133.000	3222.48	99.55	-98.75	105.90	730340.90	372154.25	32°01'15.559"N	103°35'24.451"W	0.00	0.00	0.00	
3332.60†	10.000	133.000	3320.96	111.48	-110.60	118.60	730353.60	372142.41	32°01'15.441"N	103°35'24.304"W	0.00	0.00	0.00	
3432.60†	10.000	133.000	3419.44	123.42	-122.44	131.30	730366.30	372130.56	32°01'15.323"N	103°35'24.158"W	0.00	0.00	0.00	
3532.60†	10.000	133.000	3517.92	135.36	-134.28	144.00	730379.00	372118.72	32°01'15.205"N	103°35'24.011"W	0.00	0.00	0.00	
3632.60†	10.000	133.000	3616.40	147.30	-146.12	156.70	730391.69	372106.88	32°01'15.087"N	103°35'23.865"W	0.00	0.00	0.00	
3732.60†	10.000	133.000	3714.88	159.23	-157.97	169.40	730404.39	372095.04	32°01'14.968"N	103°35'23.718"W	0.00	0.00	0.00	
3832.60†	10.000	133.000	3813.36	171.17	-169.81	182.10	730417.09	372083.20	32°01'14.850"N	103°35'23.572"W	0.00	0.00	0.00	
3932.60†	10.000	133.000	3911.84	183.11	-181.65	194.80	730429.79	372071.35	32°01'14.732"N	103°35'23.425"W	0.00	0.00	0.00	
4032.60†	10.000	133.000	4010.32	195.05	-193.50	207.50	730442.49	372059.51	32°01'14.614"N	103°35'23.279"W	0.00	0.00	0.00	
4132.60†	10.000	133.000	4108.80	206.99	-205.34	220.20	730455.19	372047.67	32°01'14.496"N	103°35'23.132"W	0.00	0.00	0.00	
4232.60†	10.000	133.000	4207.29	218.92	-217.18	232.90	730467.89	372035.83	32°01'14.378"N	103°35'22.985"W	0.00	0.00	0.00	
4332.60†	10.000	133.000	4305.77	230.86	-229.02	245.60	730480.59	372023.98	32°01'14.260"N	103°35'22.839"W	0.00	0.00	0.00	
4432.60†	10.000	133.000	4404.25	242.80	-240.87	258.30	730493.29	372012.14	32°01'14.142"N	103°35'22.692"W	0.00	0.00	0.00	
4532.60†	10.000	133.000	4502.73	254.74	-252.71	271.00	730505.99	372000.30	32°01'14.024"N	103°35'22.546"W	0.00	0.00	0.00	
4632.60†	10.000	133.000	4601.21	266.67	-264.55	283.70	730518.69	371988.46	32°01'13.906"N	103°35'22.399"W	0.00	0.00	0.00	
4732.60†	10.000	133.000	4699.69	278.61	-276.40	296.40	730531.39	371976.61	32°01'13.788"N	103°35'22.253"W	0.00	0.00	0.00	
4832.60†	10.000	133.000	4798.17	290.55	-288.24	309.10	730544.09	371964.77	32°01'13.670"N	103°35'22.106"W	0.00	0.00	0.00	
4900.00	10.000	133.000	4864.55	298.60	-296.22	317.66	730552.65	371956.79	32°01'13.590"N	103°35'22.007"W	0.00	0.00	0.00	End of Tangent
4932.60†	9.674	133.000	4896.67	302.42	-300.02	321.73	730556.72	371952.99	32°01'13.552"N	103°35'21.960"W	1.00	-1.00	0.00	
5032.60†	8.674	133.000	4995.39	313.39	-310.89	333.39	730568.38	371942.12	32°01'13.444"N	103°35'21.826"W	1.00	-1.00	0.00	
5132.60†	7.674	133.000	5094.37	323.16	-320.59	343.79	730578.78	371932.42	32°01'13.347"N	103°35'21.706"W	1.00	-1.00	0.00	
5232.60†	6.674	133.000	5193.59	331.74	-329.11	352.92	730587.91	371923.91	32°01'13.262"N	103°35'21.600"W	1.00	-1.00	0.00	
5332.60†	5.674	133.000	5293.00	339.14	-336.44	360.79	730595.78	371916.57	32°01'13.189"N	103°35'21.510"W	1.00	-1.00	0.00	
5432.60†	4.674	133.000	5392.60	345.34	-342.59	367.38	730602.37	371910.42	32°01'13.128"N	103°35'21.434"W	1.00	-1.00	0.00	
5532.60†	3.674	133.000	5492.33	350.34	-347.55	372.71	730607.69	371905.46	32°01'13.079"N	103°35'21.372"W	1.00	-1.00	0.00	



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5632.60†	2.674	133.000	5592.17	354.15	-351.33	376.76	730611.74	371901.68	32°01'13.041"N	103°35'21.325"W	1.00	-1.00	0.00	
5732.60†	1.674	133.000	5692.10	356.76	-353.92	379.53	730614.52	371899.09	32°01'13.015"N	103°35'21.293"W	1.00	-1.00	0.00	
5832.60†	0.674	133.000	5792.08	358.16	-355.31	381.03	730616.02	371897.70	32°01'13.001"N	103°35'21.276"W	1.00	-1.00	0.00	
5900.00	0.000	88.682	5859.48	358.44	-355.58	381.32	730616.31	371897.43	32°01'12.999"N	103°35'21.273"W	1.00	-1.00	-197.33	End of Drop
5932.60†	0.000	88.682	5892.08	358.44	-355.58	381.32	730616.31	371897.43	32°01'12.999"N	103°35'21.273"W	0.00	0.00	0.00	
6032.60†	0.000	88.682	5992.08	358.44	-355.58	381.32	730616.31	371897.43	32°01'12.999"N	103°35'21.273"W	0.00	0.00	0.00	
6040.52	0.000	88.682	6000.00	358.44	-355.58	381.32	730616.31	371897.43	32°01'12.999"N	103°35'21.273"W	0.00	0.00	0.00	End of Tangent
6132.60†	0.921	88.682	6092.07	358.43	-355.57	382.06	730617.05	371897.44	32°01'12.999"N	103°35'21.264"W	1.00	1.00	96.31	
6232.60†	1.921	88.682	6192.04	358.39	-355.51	384.54	730619.52	371897.50	32°01'12.999"N	103°35'21.235"W	1.00	1.00	0.00	
6332.60†	2.921	88.682	6291.95	358.32	-355.41	388.76	730623.75	371897.60	32°01'13.000"N	103°35'21.186"W	1.00	1.00	0.00	
6432.60†	3.921	88.682	6391.77	358.23	-355.28	394.72	730629.71	371897.73	32°01'13.001"N	103°35'21.117"W	1.00	1.00	0.00	
6532.60†	4.921	88.682	6491.47	358.11	-355.10	402.43	730637.42	371897.91	32°01'13.002"N	103°35'21.027"W	1.00	1.00	0.00	
6632.60†	5.921	88.682	6591.02	357.96	-354.88	411.87	730646.86	371898.13	32°01'13.003"N	103°35'20.918"W	1.00	1.00	0.00	
6732.60†	6.921	88.682	6690.40	357.79	-354.62	423.05	730658.04	371898.39	32°01'13.005"N	103°35'20.788"W	1.00	1.00	0.00	
6832.60†	7.921	88.682	6789.56	357.59	-354.33	435.97	730670.95	371898.68	32°01'13.007"N	103°35'20.638"W	1.00	1.00	0.00	
6870.89	8.304	88.682	6827.47	357.51	-354.20	441.37	730676.35	371898.81	32°01'13.008"N	103°35'20.575"W	1.00	1.00	0.00	End of Build
6932.60†	8.304	88.682	6888.53	357.37	-354.00	450.28	730685.26	371899.01	32°01'13.009"N	103°35'20.472"W	0.00	0.00	0.00	
7032.60†	8.304	88.682	6987.48	357.14	-353.67	464.72	730699.70	371899.34	32°01'13.012"N	103°35'20.304"W	0.00	0.00	0.00	
7132.60†	8.304	88.682	7086.43	356.92	-353.33	479.15	730714.14	371899.68	32°01'13.014"N	103°35'20.136"W	0.00	0.00	0.00	
7232.60†	8.304	88.682	7185.38	356.70	-353.00	493.59	730728.58	371900.01	32°01'13.016"N	103°35'19.969"W	0.00	0.00	0.00	
7332.60†	8.304	88.682	7284.33	356.47	-352.67	508.03	730743.01	371900.34	32°01'13.019"N	103°35'19.801"W	0.00	0.00	0.00	
7432.60†	8.304	88.682	7383.28	356.25	-352.34	522.47	730757.45	371900.67	32°01'13.021"N	103°35'19.633"W	0.00	0.00	0.00	
7532.60†	8.304	88.682	7482.24	356.03	-352.01	536.91	730771.89	371901.01	32°01'13.023"N	103°35'19.465"W	0.00	0.00	0.00	
7632.60†	8.304	88.682	7581.19	355.80	-351.67	551.35	730786.33	371901.34	32°01'13.026"N	103°35'19.298"W	0.00	0.00	0.00	
7732.60†	8.304	88.682	7680.14	355.58	-351.34	565.78	730800.77	371901.67	32°01'13.028"N	103°35'19.130"W	0.00	0.00	0.00	
7832.60†	8.304	88.682	7779.09	355.35	-351.01	580.22	730815.20	371902.00	32°01'13.030"N	103°35'18.962"W	0.00	0.00	0.00	
7932.60†	8.304	88.682	7878.04	355.13	-350.68	594.66	730829.64	371902.33	32°01'13.033"N	103°35'18.795"W	0.00	0.00	0.00	
8032.60†	8.304	88.682	7976.99	354.91	-350.35	609.10	730844.08	371902.67	32°01'13.035"N	103°35'18.627"W	0.00	0.00	0.00	
8132.60†	8.304	88.682	8075.95	354.68	-350.01	623.54	730858.52	371903.00	32°01'13.037"N	103°35'18.459"W	0.00	0.00	0.00	
8232.60†	8.304	88.682	8174.90	354.46	-349.68	637.97	730872.95	371903.33	32°01'13.039"N	103°35'18.291"W	0.00	0.00	0.00	



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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD EA 29 FED COM P8 12H
Area	Lea County, NM	Well	SD EA 29 FED COM P8 12H
Field	Jennings / Upper BN SPR Shale (Lea County, NM)	Wellbore	SD EA 29 FED COM P8 12H PWB
Facility	SD EA 29 Fed Com P8		

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]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
8332.60†	8.304	88.682	8273.85	354.24	-349.35	652.41	730887.39	371903.66	32°01'13.042"N	103°35'18.124"W	0.00	0.00	0.00	
8432.60†	8.304	88.682	8372.80	354.01	-349.02	666.85	730901.83	371903.99	32°01'13.044"N	103°35'17.956"W	0.00	0.00	0.00	
8532.60†	8.304	88.682	8471.75	353.79	-348.69	681.29	730916.27	371904.33	32°01'13.046"N	103°35'17.788"W	0.00	0.00	0.00	
8632.60†	8.304	88.682	8570.70	353.56	-348.35	695.73	730930.70	371904.66	32°01'13.049"N	103°35'17.621"W	0.00	0.00	0.00	
8732.60†	8.304	88.682	8669.66	353.34	-348.02	710.17	730945.14	371904.99	32°01'13.051"N	103°35'17.453"W	0.00	0.00	0.00	
8832.60†	8.304	88.682	8768.61	353.12	-347.69	724.60	730959.58	371905.32	32°01'13.053"N	103°35'17.285"W	0.00	0.00	0.00	
8932.60†	8.304	88.682	8867.56	352.89	-347.36	739.04	730974.02	371905.65	32°01'13.056"N	103°35'17.117"W	0.00	0.00	0.00	
9032.60†	8.304	88.682	8966.51	352.67	-347.02	753.48	730988.46	371905.99	32°01'13.058"N	103°35'16.950"W	0.00	0.00	0.00	
9132.60†	8.304	88.682	9065.46	352.45	-346.69	767.92	731002.89	371906.32	32°01'13.060"N	103°35'16.782"W	0.00	0.00	0.00	
9232.60†	8.304	88.682	9164.41	352.22	-346.36	782.36	731017.33	371906.65	32°01'13.062"N	103°35'16.614"W	0.00	0.00	0.00	
9332.60†	8.304	88.682	9263.37	352.00	-346.03	796.79	731031.77	371906.98	32°01'13.065"N	103°35'16.446"W	0.00	0.00	0.00	
9432.60†	8.304	88.682	9362.32	351.77	-345.70	811.23	731046.21	371907.31	32°01'13.067"N	103°35'16.279"W	0.00	0.00	0.00	
9532.60†	8.304	88.682	9461.27	351.55	-345.36	825.67	731060.64	371907.65	32°01'13.069"N	103°35'16.111"W	0.00	0.00	0.00	
9632.60†	8.304	88.682	9560.22	351.33	-345.03	840.11	731075.08	371907.98	32°01'13.072"N	103°35'15.943"W	0.00	0.00	0.00	
9732.60†	8.304	88.682	9659.17	351.10	-344.70	854.55	731089.52	371908.31	32°01'13.074"N	103°35'15.776"W	0.00	0.00	0.00	
9832.60†	8.304	88.682	9758.12	350.88	-344.37	868.99	731103.96	371908.64	32°01'13.076"N	103°35'15.608"W	0.00	0.00	0.00	
9932.60†	8.304	88.682	9857.08	350.66	-344.04	883.42	731118.40	371908.98	32°01'13.079"N	103°35'15.440"W	0.00	0.00	0.00	
10032.60†	8.304	88.682	9956.03	350.43	-343.70	897.86	731132.83	371909.31	32°01'13.081"N	103°35'15.272"W	0.00	0.00	0.00	
10132.60†	8.304	88.682	10054.98	350.21	-343.37	912.30	731147.27	371909.64	32°01'13.083"N	103°35'15.105"W	0.00	0.00	0.00	
10232.60†	8.304	88.682	10153.93	349.98	-343.04	926.74	731161.71	371909.97	32°01'13.085"N	103°35'14.937"W	0.00	0.00	0.00	
10332.60†	8.304	88.682	10252.88	349.76	-342.71	941.18	731176.15	371910.30	32°01'13.088"N	103°35'14.769"W	0.00	0.00	0.00	
10432.60†	8.304	88.682	10351.83	349.54	-342.38	955.61	731190.58	371910.64	32°01'13.090"N	103°35'14.602"W	0.00	0.00	0.00	
10532.60†	8.304	88.682	10450.79	349.31	-342.04	970.05	731205.02	371910.97	32°01'13.092"N	103°35'14.434"W	0.00	0.00	0.00	
10632.60†	8.304	88.682	10549.74	349.09	-341.71	984.49	731219.46	371911.30	32°01'13.095"N	103°35'14.266"W	0.00	0.00	0.00	
10732.60†	8.304	88.682	10648.69	348.87	-341.38	998.93	731233.90	371911.63	32°01'13.097"N	103°35'14.098"W	0.00	0.00	0.00	
10832.60†	8.304	88.682	10747.64	348.64	-341.05	1013.37	731248.34	371911.96	32°01'13.099"N	103°35'13.931"W	0.00	0.00	0.00	
10932.60†	8.304	88.682	10846.59	348.42	-340.71	1027.81	731262.77	371912.30	32°01'13.102"N	103°35'13.763"W	0.00	0.00	0.00	
11032.60†	8.304	88.682	10945.54	348.19	-340.38	1042.24	731277.21	371912.63	32°01'13.104"N	103°35'13.595"W	0.00	0.00	0.00	
11132.60†	8.304	88.682	11044.50	347.97	-340.05	1056.68	731291.65	371912.96	32°01'13.106"N	103°35'13.428"W	0.00	0.00	0.00	
11232.60†	8.304	88.682	11143.45	347.75	-339.72	1071.12	731306.09	371913.29	32°01'13.108"N	103°35'13.260"W	0.00	0.00	0.00	



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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD EA 29 FED COM P8 12H
Area	Lea County, NM	Well	SD EA 29 FED COM P8 12H
Field	Jennings / Upper BN SPR Shale (Lea County, NM)	Wellbore	SD EA 29 FED COM P8 12H PWB
Facility	SD EA 29 Fed Com P8		

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]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
11332.60†	8.304	88.682	11242.40	347.52	-339.39	1085.56	731320.52	371913.62	32°01'13.111"N	103°35'13.092"W	0.00	0.00	0.00	
11432.60†	8.304	88.682	11341.35	347.30	-339.05	1100.00	731334.96	371913.96	32°01'13.113"N	103°35'12.924"W	0.00	0.00	0.00	
11532.60†	8.304	88.682	11440.30	347.08	-338.72	1114.44	731349.40	371914.29	32°01'13.115"N	103°35'12.757"W	0.00	0.00	0.00	
11632.60†	8.304	88.682	11539.25	346.85	-338.39	1128.87	731363.84	371914.62	32°01'13.118"N	103°35'12.589"W	0.00	0.00	0.00	
11732.60†	8.304	88.682	11638.21	346.63	-338.06	1143.31	731378.27	371914.95	32°01'13.120"N	103°35'12.421"W	0.00	0.00	0.00	
11832.60†	8.304	88.682	11737.16	346.41	-337.73	1157.75	731392.71	371915.28	32°01'13.122"N	103°35'12.254"W	0.00	0.00	0.00	
11932.60†	8.304	88.682	11836.11	346.18	-337.39	1172.19	731407.15	371915.62	32°01'13.125"N	103°35'12.086"W	0.00	0.00	0.00	
12032.60†	8.304	88.682	11935.06	345.96	-337.06	1186.63	731421.59	371915.95	32°01'13.127"N	103°35'11.918"W	0.00	0.00	0.00	
12132.60†	8.304	88.682	12034.01	345.73	-336.73	1201.06	731436.03	371916.28	32°01'13.129"N	103°35'11.750"W	0.00	0.00	0.00	
12200.79	8.304	88.682	12101.48	345.58	-336.50	1210.91	731445.87	371916.51	32°01'13.131"N	103°35'11.636"W	0.00	0.00	0.00	End of Tangent
12232.60†	9.080	113.631	12132.94	346.57	-337.46	1215.51	731450.47	371915.55	32°01'13.121"N	103°35'11.583"W	12.00	2.44	78.43	
12332.60†	17.702	152.361	12230.30	363.37	-354.15	1229.84	731464.80	371898.86	32°01'12.955"N	103°35'11.418"W	12.00	8.62	38.73	
12432.60†	28.813	164.183	12322.08	400.26	-390.94	1243.51	731478.47	371862.07	32°01'12.590"N	103°35'11.262"W	12.00	11.11	11.82	
12532.60†	40.408	169.697	12404.27	455.63	-446.21	1255.92	731490.88	371806.80	32°01'12.042"N	103°35'11.122"W	12.00	11.59	5.51	
12632.60†	52.162	173.060	12473.26	527.05	-517.56	1266.53	731501.49	371735.46	32°01'11.335"N	103°35'11.005"W	12.00	11.75	3.36	
12732.60†	63.986	175.484	12526.06	611.41	-601.86	1274.87	731509.83	371651.16	32°01'10.500"N	103°35'10.915"W	12.00	11.82	2.42	
12832.60†	75.843	177.458	12560.34	705.03	-695.43	1280.58	731515.54	371557.59	32°01'09.574"N	103°35'10.856"W	12.00	11.86	1.97	
12932.60†	87.714	179.234	12574.62	803.79	-794.18	1283.41	731518.37	371458.84	32°01'08.597"N	103°35'10.831"W	12.00	11.87	1.78	
12951.85	90.000	179.568	12575.00	823.04	-813.43	1283.61	731518.57	371439.59	32°01'08.406"N	103°35'10.830"W	12.00	11.87	1.73	End of 3D Arc
13032.60†	90.000	179.568	12575.00	903.79	-894.18	1284.22	731519.18	371358.85	32°01'07.607"N	103°35'10.829"W	0.00	0.00	0.00	
13132.60†	90.000	179.568	12575.00	1003.79	-994.17	1284.97	731519.93	371258.86	32°01'06.618"N	103°35'10.829"W	0.00	0.00	0.00	
13232.60†	90.000	179.568	12575.00	1103.79	-1094.17	1285.72	731520.68	371158.86	32°01'05.628"N	103°35'10.828"W	0.00	0.00	0.00	
13332.60†	90.000	179.568	12575.00	1203.79	-1194.17	1286.48	731521.44	371058.87	32°01'04.638"N	103°35'10.827"W	0.00	0.00	0.00	
13432.60†	90.000	179.568	12575.00	1303.79	-1294.16	1287.23	731522.19	370958.88	32°01'03.649"N	103°35'10.827"W	0.00	0.00	0.00	
13532.60†	90.000	179.568	12575.00	1403.79	-1394.16	1287.99	731522.95	370858.88	32°01'02.659"N	103°35'10.826"W	0.00	0.00	0.00	
13632.60†	90.000	179.568	12575.00	1503.79	-1494.16	1288.74	731523.70	370758.89	32°01'01.670"N	103°35'10.825"W	0.00	0.00	0.00	
13732.60†	90.000	179.568	12575.00	1603.79	-1594.16	1289.49	731524.45	370658.89	32°01'00.680"N	103°35'10.824"W	0.00	0.00	0.00	
13832.60†	90.000	179.568	12575.00	1703.79	-1694.15	1290.25	731525.21	370558.90	32°00'59.691"N	103°35'10.824"W	0.00	0.00	0.00	
13932.60†	90.000	179.568	12575.00	1803.79	-1794.15	1291.00	731525.96	370458.91	32°00'58.701"N	103°35'10.823"W	0.00	0.00	0.00	
14032.60†	90.000	179.568	12575.00	1903.79	-1894.15	1291.76	731526.71	370358.91	32°00'57.711"N	103°35'10.822"W	0.00	0.00	0.00	



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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD EA 29 FED COM P8 12H
Area	Lea County, NM	Well	SD EA 29 FED COM P8 12H
Field	Jennings / Upper BN SPR Shale (Lea County, NM)	Wellbore	SD EA 29 FED COM P8 12H PWB
Facility	SD EA 29 Fed Com P8		

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]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
14132.60†	90.000	179.568	12575.00	2003.79	-1994.15	1292.51	731527.47	370258.92	32°00'56.722"N	103°35'10.821"W	0.00	0.00	0.00	
14232.60†	90.000	179.568	12575.00	2103.79	-2094.14	1293.26	731528.22	370158.93	32°00'55.732"N	103°35'10.821"W	0.00	0.00	0.00	
14332.60†	90.000	179.568	12575.00	2203.79	-2194.14	1294.02	731528.98	370058.93	32°00'54.743"N	103°35'10.820"W	0.00	0.00	0.00	
14432.60†	90.000	179.568	12575.00	2303.79	-2294.14	1294.77	731529.73	369958.94	32°00'53.753"N	103°35'10.819"W	0.00	0.00	0.00	
14532.60†	90.000	179.568	12575.00	2403.79	-2394.13	1295.53	731530.48	369858.94	32°00'52.764"N	103°35'10.819"W	0.00	0.00	0.00	
14632.60†	90.000	179.568	12575.00	2503.79	-2494.13	1296.28	731531.24	369758.95	32°00'51.774"N	103°35'10.818"W	0.00	0.00	0.00	
14732.60†	90.000	179.568	12575.00	2603.79	-2594.13	1297.03	731531.99	369658.96	32°00'50.784"N	103°35'10.817"W	0.00	0.00	0.00	
14832.60†	90.000	179.568	12575.00	2703.79	-2694.13	1297.79	731532.75	369558.96	32°00'49.795"N	103°35'10.816"W	0.00	0.00	0.00	
14932.60†	90.000	179.568	12575.00	2803.79	-2794.12	1298.54	731533.50	369458.97	32°00'48.805"N	103°35'10.816"W	0.00	0.00	0.00	
15032.60†	90.000	179.568	12575.00	2903.79	-2894.12	1299.29	731534.25	369358.97	32°00'47.816"N	103°35'10.815"W	0.00	0.00	0.00	
15132.60†	90.000	179.568	12575.00	3003.79	-2994.12	1300.05	731535.01	369258.98	32°00'46.826"N	103°35'10.814"W	0.00	0.00	0.00	
15232.60†	90.000	179.568	12575.00	3103.79	-3094.11	1300.80	731535.76	369158.99	32°00'45.836"N	103°35'10.813"W	0.00	0.00	0.00	
15332.60†	90.000	179.568	12575.00	3203.79	-3194.11	1301.56	731536.51	369058.99	32°00'44.847"N	103°35'10.813"W	0.00	0.00	0.00	
15432.60†	90.000	179.568	12575.00	3303.79	-3294.11	1302.31	731537.27	368959.00	32°00'43.857"N	103°35'10.812"W	0.00	0.00	0.00	
15532.60†	90.000	179.568	12575.00	3403.79	-3394.11	1303.06	731538.02	368859.00	32°00'42.868"N	103°35'10.811"W	0.00	0.00	0.00	
15632.60†	90.000	179.568	12575.00	3503.79	-3494.10	1303.82	731538.78	368759.01	32°00'41.878"N	103°35'10.811"W	0.00	0.00	0.00	
15732.60†	90.000	179.568	12575.00	3603.79	-3594.10	1304.57	731539.53	368659.02	32°00'40.889"N	103°35'10.810"W	0.00	0.00	0.00	
15832.60†	90.000	179.568	12575.00	3703.79	-3694.10	1305.33	731540.28	368559.02	32°00'39.899"N	103°35'10.809"W	0.00	0.00	0.00	
15932.60†	90.000	179.568	12575.00	3803.79	-3794.09	1306.08	731541.04	368459.03	32°00'38.909"N	103°35'10.808"W	0.00	0.00	0.00	
16032.60†	90.000	179.568	12575.00	3903.79	-3894.09	1306.83	731541.79	368359.03	32°00'37.920"N	103°35'10.808"W	0.00	0.00	0.00	
16132.60†	90.000	179.568	12575.00	4003.79	-3994.09	1307.59	731542.55	368259.04	32°00'36.930"N	103°35'10.807"W	0.00	0.00	0.00	
16232.60†	90.000	179.568	12575.00	4103.79	-4094.09	1308.34	731543.30	368159.05	32°00'35.941"N	103°35'10.806"W	0.00	0.00	0.00	
16332.60†	90.000	179.568	12575.00	4203.79	-4194.08	1309.10	731544.05	368059.05	32°00'34.951"N	103°35'10.805"W	0.00	0.00	0.00	
16432.60†	90.000	179.568	12575.00	4303.79	-4294.08	1309.85	731544.81	367959.06	32°00'33.962"N	103°35'10.805"W	0.00	0.00	0.00	
16532.60†	90.000	179.568	12575.00	4403.79	-4394.08	1310.60	731545.56	367859.06	32°00'32.972"N	103°35'10.804"W	0.00	0.00	0.00	
16632.60†	90.000	179.568	12575.00	4503.79	-4494.07	1311.36	731546.31	367759.07	32°00'31.982"N	103°35'10.803"W	0.00	0.00	0.00	
16732.60†	90.000	179.568	12575.00	4603.79	-4594.07	1312.11	731547.07	367659.08	32°00'30.993"N	103°35'10.802"W	0.00	0.00	0.00	
16832.60†	90.000	179.568	12575.00	4703.79	-4694.07	1312.86	731547.82	367559.08	32°00'30.003"N	103°35'10.802"W	0.00	0.00	0.00	
16932.60†	90.000	179.568	12575.00	4803.79	-4794.07	1313.62	731548.58	367459.09	32°00'29.014"N	103°35'10.801"W	0.00	0.00	0.00	
17032.60†	90.000	179.568	12575.00	4903.79	-4894.06	1314.37	731549.33	367359.09	32°00'28.024"N	103°35'10.800"W	0.00	0.00	0.00	



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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD EA 29 FED COM P8 12H
Area	Lea County, NM	Well	SD EA 29 FED COM P8 12H
Field	Jennings / Upper BN SPR Shale (Lea County, NM)	Wellbore	SD EA 29 FED COM P8 12H PWB
Facility	SD EA 29 Fed Com P8		

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]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
17132.60†	90.000	179.568	12575.00	5003.79	-4994.06	1315.13	731550.08	367259.10	32°00'27.034"N	103°35'10.800"W	0.00	0.00	0.00	
17232.60†	90.000	179.568	12575.00	5103.79	-5094.06	1315.88	731550.84	367159.11	32°00'26.045"N	103°35'10.799"W	0.00	0.00	0.00	
17332.60†	90.000	179.568	12575.00	5203.79	-5194.05	1316.63	731551.59	367059.11	32°00'25.055"N	103°35'10.798"W	0.00	0.00	0.00	
17432.60†	90.000	179.568	12575.00	5303.79	-5294.05	1317.39	731552.35	366959.12	32°00'24.066"N	103°35'10.797"W	0.00	0.00	0.00	
17532.60†	90.000	179.568	12575.00	5403.79	-5394.05	1318.14	731553.10	366859.13	32°00'23.076"N	103°35'10.797"W	0.00	0.00	0.00	
17632.60†	90.000	179.568	12575.00	5503.79	-5494.05	1318.90	731553.85	366759.13	32°00'22.087"N	103°35'10.796"W	0.00	0.00	0.00	
17732.60†	90.000	179.568	12575.00	5603.79	-5594.04	1319.65	731554.61	366659.14	32°00'21.097"N	103°35'10.795"W	0.00	0.00	0.00	
17832.60†	90.000	179.568	12575.00	5703.79	-5694.04	1320.40	731555.36	366559.14	32°00'20.107"N	103°35'10.794"W	0.00	0.00	0.00	
17932.60†	90.000	179.568	12575.00	5803.79	-5794.04	1321.16	731556.11	366459.15	32°00'19.118"N	103°35'10.794"W	0.00	0.00	0.00	
18032.60†	90.000	179.568	12575.00	5903.79	-5894.03	1321.91	731556.87	366359.16	32°00'18.128"N	103°35'10.793"W	0.00	0.00	0.00	
18132.60†	90.000	179.568	12575.00	6003.79	-5994.03	1322.67	731557.62	366259.16	32°00'17.139"N	103°35'10.792"W	0.00	0.00	0.00	
18232.60†	90.000	179.568	12575.00	6103.79	-6094.03	1323.42	731558.38	366159.17	32°00'16.149"N	103°35'10.792"W	0.00	0.00	0.00	
18332.60†	90.000	179.568	12575.00	6203.79	-6194.03	1324.17	731559.13	366059.17	32°00'15.160"N	103°35'10.791"W	0.00	0.00	0.00	
18432.60†	90.000	179.568	12575.00	6303.79	-6294.02	1324.93	731559.88	365959.18	32°00'14.170"N	103°35'10.790"W	0.00	0.00	0.00	
18532.60†	90.000	179.568	12575.00	6403.79	-6394.02	1325.68	731560.64	365859.19	32°00'13.180"N	103°35'10.789"W	0.00	0.00	0.00	
18632.60†	90.000	179.568	12575.00	6503.79	-6494.02	1326.43	731561.39	365759.19	32°00'12.191"N	103°35'10.789"W	0.00	0.00	0.00	
18732.60†	90.000	179.568	12575.00	6603.79	-6594.01	1327.19	731562.15	365659.20	32°00'11.201"N	103°35'10.788"W	0.00	0.00	0.00	
18832.60†	90.000	179.568	12575.00	6703.79	-6694.01	1327.94	731562.90	365559.20	32°00'10.212"N	103°35'10.787"W	0.00	0.00	0.00	
18932.60†	90.000	179.568	12575.00	6803.79	-6794.01	1328.70	731563.65	365459.21	32°00'09.222"N	103°35'10.786"W	0.00	0.00	0.00	
19032.60†	90.000	179.568	12575.00	6903.79	-6894.01	1329.45	731564.41	365359.22	32°00'08.232"N	103°35'10.786"W	0.00	0.00	0.00	
19132.60†	90.000	179.568	12575.00	7003.79	-6994.00	1330.20	731565.16	365259.22	32°00'07.243"N	103°35'10.785"W	0.00	0.00	0.00	
19232.60†	90.000	179.568	12575.00	7103.79	-7094.00	1330.96	731565.91	365159.23	32°00'06.253"N	103°35'10.784"W	0.00	0.00	0.00	
19332.60†	90.000	179.568	12575.00	7203.79	-7194.00	1331.71	731566.67	365059.23	32°00'05.264"N	103°35'10.784"W	0.00	0.00	0.00	
19432.60†	90.000	179.568	12575.00	7303.79	-7293.99	1332.47	731567.42	364959.24	32°00'04.274"N	103°35'10.783"W	0.00	0.00	0.00	
19532.60†	90.000	179.568	12575.00	7403.79	-7393.99	1333.22	731568.18	364859.25	32°00'03.285"N	103°35'10.782"W	0.00	0.00	0.00	
19632.60†	90.000	179.568	12575.00	7503.79	-7493.99	1333.97	731568.93	364759.25	32°00'02.295"N	103°35'10.781"W	0.00	0.00	0.00	
19641.85	90.000	179.568	12575.00	7513.04	-7503.24	1334.04	731569.00	364750.00	32°00'02.203"N	103°35'10.781"W	0.00	0.00	0.00	End of Tangent



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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD EA 29 FED COM P8 12H
Area	Lea County, NM	Well	SD EA 29 FED COM P8 12H
Field	Jennings / Upper BN SPR Shale (Lea County, NM)	Wellbore	SD EA 29 FED COM P8 12H PWB
Facility	SD EA 29 Fed Com P8		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SD EA 29 FED COM P8 No. Well 3 (A2) FTP		12575.00	-185.47	1279.30	731514.26	372067.54	32°01'14.621"N	103°35'10.830"W	point
1) SD EA 29 FED COM P8 No. Well 3 (A2) PBHL rev 1	19641.85	12575.00	-7503.24	1334.04	731569.00	364750.00	32°00'02.203"N	103°35'10.781"W	point

SURVEY PROGRAM - Ref Wellbore: SD EA 29 FED COM P8 12H PWB Ref Wellpath: SD EA 29 FED COM P8 12H Rev B.0

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
32.60	19778.31	BHI NaviTrak (Axial)		SD EA 29 FED COM P8 12H PWB