

Scale 1 cm = 1500



NOTE: FIELD SHOULD BE UPPER WOLFCAMP

Planned Wellpath Report

SD EA 18 19 Fed Com P13 8H Rev A.0

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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD EA 18 19 Fed Com P13 8H
Area	Lea County, NM	Well	SD EA 18 19 Fed Com P13 8H
Field	Jennings / Upper BN SPRN Shale (Lea County, NM)	Wellbore	SD EA 18 19 Fed Com P13 8H
Facility	SD EA 18 19 Fed 13		

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	0.999966	Report Generated	6/16/2017 at 12:38:04 PM
Convergence at slot	0.38° East	Database/Source file	WA_Midland/SD_EA_18_19_Fed_Com_P13_8H_Rev_A.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	722369.00	382438.00	32°02'57.859"N	103°36'56.249"W
Facility Reference Pt			722369.00	382438.00	32°02'57.859"N	103°36'56.249"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	3254.60ft
Horizontal Reference Pt	Slot	Rig: Nabors X30 (KB) to Mean Sea Level	3254.60ft
Vertical Reference Pt	Rig: Nabors X30 (KB)	Rig: Nabors X30 (KB) to Ground Level at Slot (SD EA 18 19 Fed Com P13 8H)	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	179.65°



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Facility	SD EA 18 19 Fed 13		

WELLPATH DATA (233 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	299.236	0.00	0.00	0.00	0.00	722369.00	382438.00	32°02'57.859"N	103°36'56.249"W	0.00	0.00	0.00	
32.60	0.000	299.236	32.60	0.00	0.00	0.00	722369.00	382438.00	32°02'57.859"N	103°36'56.249"W	0.00	0.00	0.00	Tie On
132.60†	0.000	299.236	132.60	0.00	0.00	0.00	722369.00	382438.00	32°02'57.859"N	103°36'56.249"W	0.00	0.00	0.00	
232.60†	0.000	299.236	232.60	0.00	0.00	0.00	722369.00	382438.00	32°02'57.859"N	103°36'56.249"W	0.00	0.00	0.00	
332.60†	0.000	299.236	332.60	0.00	0.00	0.00	722369.00	382438.00	32°02'57.859"N	103°36'56.249"W	0.00	0.00	0.00	
432.60†	0.000	299.236	432.60	0.00	0.00	0.00	722369.00	382438.00	32°02'57.859"N	103°36'56.249"W	0.00	0.00	0.00	
532.60†	0.000	299.236	532.60	0.00	0.00	0.00	722369.00	382438.00	32°02'57.859"N	103°36'56.249"W	0.00	0.00	0.00	
632.60†	0.000	299.236	632.60	0.00	0.00	0.00	722369.00	382438.00	32°02'57.859"N	103°36'56.249"W	0.00	0.00	0.00	
732.60†	0.000	299.236	732.60	0.00	0.00	0.00	722369.00	382438.00	32°02'57.859"N	103°36'56.249"W	0.00	0.00	0.00	
832.60†	0.000	299.236	832.60	0.00	0.00	0.00	722369.00	382438.00	32°02'57.859"N	103°36'56.249"W	0.00	0.00	0.00	
932.60†	0.000	299.236	932.60	0.00	0.00	0.00	722369.00	382438.00	32°02'57.859"N	103°36'56.249"W	0.00	0.00	0.00	
1032.60†	0.000	299.236	1032.60	0.00	0.00	0.00	722369.00	382438.00	32°02'57.859"N	103°36'56.249"W	0.00	0.00	0.00	
1132.60†	0.000	299.236	1132.60	0.00	0.00	0.00	722369.00	382438.00	32°02'57.859"N	103°36'56.249"W	0.00	0.00	0.00	
1232.60†	0.000	299.236	1232.60	0.00	0.00	0.00	722369.00	382438.00	32°02'57.859"N	103°36'56.249"W	0.00	0.00	0.00	
1332.60†	0.000	299.236	1332.60	0.00	0.00	0.00	722369.00	382438.00	32°02'57.859"N	103°36'56.249"W	0.00	0.00	0.00	
1432.60†	0.000	299.236	1432.60	0.00	0.00	0.00	722369.00	382438.00	32°02'57.859"N	103°36'56.249"W	0.00	0.00	0.00	
1500.00	0.000	299.236	1500.00	0.00	0.00	0.00	722369.00	382438.00	32°02'57.859"N	103°36'56.249"W	0.00	0.00	0.00	End of Tangent
1532.60†	0.326	299.236	1532.60	-0.05	0.05	-0.08	722368.92	382438.05	32°02'57.859"N	103°36'56.250"W	1.00	1.00	-186.39	
1632.60†	1.326	299.236	1632.59	-0.76	0.75	-1.34	722367.66	382438.75	32°02'57.866"N	103°36'56.265"W	1.00	1.00	0.00	
1732.60†	2.326	299.236	1732.54	-2.33	2.31	-4.12	722364.88	382440.31	32°02'57.882"N	103°36'56.297"W	1.00	1.00	0.00	
1832.60†	3.326	299.236	1832.41	-4.76	4.71	-8.42	722360.58	382442.71	32°02'57.906"N	103°36'56.347"W	1.00	1.00	0.00	
1932.60†	4.326	299.236	1932.19	-8.06	7.97	-14.24	722354.76	382445.97	32°02'57.939"N	103°36'56.414"W	1.00	1.00	0.00	
2032.60†	5.326	299.236	2031.83	-12.21	12.08	-21.59	722347.42	382450.08	32°02'57.980"N	103°36'56.499"W	1.00	1.00	0.00	
2132.60†	6.326	299.236	2131.32	-17.22	17.04	-30.44	722338.56	382455.04	32°02'58.030"N	103°36'56.602"W	1.00	1.00	0.00	
2232.60†	7.326	299.236	2230.61	-23.09	22.84	-40.81	722328.19	382460.84	32°02'58.088"N	103°36'56.722"W	1.00	1.00	0.00	
2332.60†	8.326	299.236	2329.67	-29.82	29.49	-52.70	722316.31	382467.49	32°02'58.154"N	103°36'56.859"W	1.00	1.00	0.00	
2432.60†	9.326	299.236	2428.49	-37.39	36.99	-66.08	722302.92	382474.99	32°02'58.229"N	103°36'57.014"W	1.00	1.00	0.00	
2500.00	10.000	299.236	2494.93	-42.98	42.51	-75.96	722293.05	382480.51	32°02'58.285"N	103°36'57.129"W	1.00	1.00	0.00	End of Build
2532.60†	10.000	299.236	2527.04	-45.77	45.28	-80.90	722288.11	382483.28	32°02'58.312"N	103°36'57.186"W	0.00	0.00	0.00	
2632.60†	10.000	299.236	2625.52	-54.35	53.76	-96.05	722272.95	382491.76	32°02'58.397"N	103°36'57.361"W	0.00	0.00	0.00	



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Area	Lea County, NM	Well	SD EA 18 19 Fed Com P13 8H
Field	Jennings / Upper BN SPRN Shale (Lea County, NM)	Wellbore	SD EA 18 19 Fed Com P13 8H
Facility	SD EA 18 19 Fed 13		

WELLPATH DATA (233 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
2732.60†	10.000	299.236	2724.00	-62.92	62.24	-111.20	722257.80	382500.24	32°02'58.482"N	103°36'57.537"W	0.00	0.00	0.00	
2832.60†	10.000	299.236	2822.48	-71.49	70.72	-126.35	722242.65	382508.72	32°02'58.567"N	103°36'57.712"W	0.00	0.00	0.00	
2932.60†	10.000	299.236	2920.96	-80.07	79.20	-141.51	722227.50	382517.20	32°02'58.652"N	103°36'57.887"W	0.00	0.00	0.00	
3032.60†	10.000	299.236	3019.44	-88.64	87.68	-156.66	722212.35	382525.68	32°02'58.737"N	103°36'58.063"W	0.00	0.00	0.00	
3132.60†	10.000	299.236	3117.92	-97.21	96.17	-171.81	722197.19	382534.16	32°02'58.822"N	103°36'58.238"W	0.00	0.00	0.00	
3232.60†	10.000	299.236	3216.40	-105.79	104.65	-186.97	722182.04	382542.64	32°02'58.907"N	103°36'58.413"W	0.00	0.00	0.00	
3332.60†	10.000	299.236	3314.88	-114.36	113.13	-202.12	722166.89	382551.12	32°02'58.992"N	103°36'58.589"W	0.00	0.00	0.00	
3432.60†	10.000	299.236	3413.36	-122.93	121.61	-217.27	722151.74	382559.61	32°02'59.077"N	103°36'58.764"W	0.00	0.00	0.00	
3532.60†	10.000	299.236	3511.84	-131.51	130.09	-232.42	722136.58	382568.09	32°02'59.162"N	103°36'58.940"W	0.00	0.00	0.00	
3632.60†	10.000	299.236	3610.32	-140.08	138.57	-247.58	722121.43	382576.57	32°02'59.246"N	103°36'59.115"W	0.00	0.00	0.00	
3732.60†	10.000	299.236	3708.80	-148.66	147.05	-262.73	722106.28	382585.05	32°02'59.331"N	103°36'59.290"W	0.00	0.00	0.00	
3832.60†	10.000	299.236	3807.29	-157.23	155.53	-277.88	722091.13	382593.53	32°02'59.416"N	103°36'59.466"W	0.00	0.00	0.00	
3932.60†	10.000	299.236	3905.77	-165.80	164.02	-293.04	722075.98	382602.01	32°02'59.501"N	103°36'59.641"W	0.00	0.00	0.00	
4032.60†	10.000	299.236	4004.25	-174.38	172.50	-308.19	722060.82	382610.49	32°02'59.586"N	103°36'59.817"W	0.00	0.00	0.00	
4132.60†	10.000	299.236	4102.73	-182.95	180.98	-323.34	722045.67	382618.97	32°02'59.671"N	103°36'59.992"W	0.00	0.00	0.00	
4232.60†	10.000	299.236	4201.21	-191.52	189.46	-338.49	722030.52	382627.45	32°02'59.756"N	103°37'00.167"W	0.00	0.00	0.00	
4332.60†	10.000	299.236	4299.69	-200.10	197.94	-353.65	722015.37	382635.93	32°02'59.841"N	103°37'00.343"W	0.00	0.00	0.00	
4432.60†	10.000	299.236	4398.17	-208.67	206.42	-368.80	722000.21	382644.41	32°02'59.926"N	103°37'00.518"W	0.00	0.00	0.00	
4532.60†	10.000	299.236	4496.65	-217.24	214.90	-383.95	721985.06	382652.89	32°03'00.011"N	103°37'00.694"W	0.00	0.00	0.00	
4632.60†	10.000	299.236	4595.13	-225.82	223.38	-399.10	721969.91	382661.38	32°03'00.096"N	103°37'00.869"W	0.00	0.00	0.00	
4732.60†	10.000	299.236	4693.61	-234.39	231.87	-414.26	721954.76	382669.86	32°03'00.181"N	103°37'01.044"W	0.00	0.00	0.00	
4832.60†	10.000	299.236	4792.09	-242.96	240.35	-429.41	721939.61	382678.34	32°03'00.266"N	103°37'01.220"W	0.00	0.00	0.00	
4932.60†	10.000	299.236	4890.57	-251.54	248.83	-444.56	721924.45	382686.82	32°03'00.350"N	103°37'01.395"W	0.00	0.00	0.00	
5032.60†	10.000	299.236	4989.05	-260.11	257.31	-459.72	721909.30	382695.30	32°03'00.435"N	103°37'01.571"W	0.00	0.00	0.00	
5132.60†	10.000	299.236	5087.54	-268.69	265.79	-474.87	721894.15	382703.78	32°03'00.520"N	103°37'01.746"W	0.00	0.00	0.00	
5232.60†	10.000	299.236	5186.02	-277.26	274.27	-490.02	721879.00	382712.26	32°03'00.605"N	103°37'01.921"W	0.00	0.00	0.00	
5332.60†	10.000	299.236	5284.50	-285.83	282.75	-505.17	721863.84	382720.74	32°03'00.690"N	103°37'02.097"W	0.00	0.00	0.00	
5432.60†	10.000	299.236	5382.98	-294.41	291.23	-520.33	721848.69	382729.22	32°03'00.775"N	103°37'02.272"W	0.00	0.00	0.00	
5532.60†	10.000	299.236	5481.46	-302.98	299.71	-535.48	721833.54	382737.70	32°03'00.860"N	103°37'02.448"W	0.00	0.00	0.00	
5632.60†	10.000	299.236	5579.94	-311.55	308.20	-550.63	721818.39	382746.18	32°03'00.945"N	103°37'02.623"W	0.00	0.00	0.00	



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5732.60†	10.000	299.236	5678.42	-320.13	316.68	-565.79	721803.24	382754.67	32°03'01.030"N	103°37'02.798"W	0.00	0.00	0.00	
5832.60†	10.000	299.236	5776.90	-328.70	325.16	-580.94	721788.08	382763.15	32°03'01.115"N	103°37'02.974"W	0.00	0.00	0.00	
5932.60†	10.000	299.236	5875.38	-337.27	333.64	-596.09	721772.93	382771.63	32°03'01.200"N	103°37'03.149"W	0.00	0.00	0.00	
6032.60†	10.000	299.236	5973.86	-345.85	342.12	-611.24	721757.78	382780.11	32°03'01.285"N	103°37'03.324"W	0.00	0.00	0.00	
6132.60†	10.000	299.236	6072.34	-354.42	350.60	-626.40	721742.63	382788.59	32°03'01.370"N	103°37'03.500"W	0.00	0.00	0.00	
6212.71	10.000	299.236	6151.23	-361.29	357.40	-638.53	721730.49	382795.38	32°03'01.438"N	103°37'03.640"W	0.00	0.00	0.00	End of Tangent
6232.60†	9.801	299.236	6170.83	-362.98	359.07	-641.52	721727.50	382797.05	32°03'01.454"N	103°37'03.675"W	1.00	-1.00	0.00	
6332.60†	8.801	299.236	6269.51	-370.96	366.96	-655.62	721713.40	382804.95	32°03'01.533"N	103°37'03.838"W	1.00	-1.00	0.00	
6432.60†	7.801	299.236	6368.47	-378.09	374.01	-668.22	721700.80	382812.00	32°03'01.604"N	103°37'03.984"W	1.00	-1.00	0.00	
6532.60†	6.801	299.236	6467.65	-384.36	380.22	-679.31	721689.71	382818.20	32°03'01.666"N	103°37'04.112"W	1.00	-1.00	0.00	
6632.60†	5.801	299.236	6567.05	-389.78	385.58	-688.89	721680.14	382823.56	32°03'01.720"N	103°37'04.223"W	1.00	-1.00	0.00	
6732.60†	4.801	299.236	6666.62	-394.34	390.09	-696.95	721672.08	382828.08	32°03'01.765"N	103°37'04.317"W	1.00	-1.00	0.00	
6832.60†	3.801	299.236	6766.34	-398.04	393.75	-703.49	721665.53	382831.74	32°03'01.802"N	103°37'04.392"W	1.00	-1.00	0.00	
6932.60†	2.801	299.236	6866.17	-400.89	396.57	-708.52	721660.51	382834.55	32°03'01.830"N	103°37'04.450"W	1.00	-1.00	0.00	
7032.60†	1.801	299.236	6966.09	-402.87	398.53	-712.02	721657.00	382836.51	32°03'01.849"N	103°37'04.491"W	1.00	-1.00	0.00	
7132.60†	0.801	299.236	7066.06	-403.99	399.64	-714.00	721655.02	382837.62	32°03'01.860"N	103°37'04.514"W	1.00	-1.00	0.00	
7212.71	0.000	179.648	7146.16	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	1.00	-1.00	75.85	End of Drop
7232.60†	0.000	179.648	7166.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
7332.60†	0.000	179.648	7266.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
7432.60†	0.000	179.648	7366.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
7532.60†	0.000	179.648	7466.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
7632.60†	0.000	179.648	7566.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
7732.60†	0.000	179.648	7666.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
7832.60†	0.000	179.648	7766.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
7932.60†	0.000	179.648	7866.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
8032.60†	0.000	179.648	7966.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
8132.60†	0.000	179.648	8066.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
8232.60†	0.000	179.648	8166.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
8332.60†	0.000	179.648	8266.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
8432.60†	0.000	179.648	8366.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	



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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD EA 18 19 Fed Com P13 8H
Area	Lea County, NM	Well	SD EA 18 19 Fed Com P13 8H
Field	Jennings / Upper BN SPRN Shale (Lea County, NM)	Wellbore	SD EA 18 19 Fed Com P13 8H
Facility	SD EA 18 19 Fed 13		

WELLPATH DATA (233 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
8532.60†	0.000	179.648	8466.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
8632.60†	0.000	179.648	8566.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
8732.60†	0.000	179.648	8666.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
8832.60†	0.000	179.648	8766.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
8932.60†	0.000	179.648	8866.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
9032.60†	0.000	179.648	8966.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
9132.60†	0.000	179.648	9066.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
9232.60†	0.000	179.648	9166.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
9332.60†	0.000	179.648	9266.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
9432.60†	0.000	179.648	9366.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
9532.60†	0.000	179.648	9466.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
9632.60†	0.000	179.648	9566.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
9732.60†	0.000	179.648	9666.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
9832.60†	0.000	179.648	9766.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
9932.60†	0.000	179.648	9866.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
10032.60†	0.000	179.648	9966.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
10132.60†	0.000	179.648	10066.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
10232.60†	0.000	179.648	10166.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
10332.60†	0.000	179.648	10266.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
10432.60†	0.000	179.648	10366.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
10532.60†	0.000	179.648	10466.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
10632.60†	0.000	179.648	10566.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
10732.60†	0.000	179.648	10666.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
10832.60†	0.000	179.648	10766.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
10932.60†	0.000	179.648	10866.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
11032.60†	0.000	179.648	10966.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
11132.60†	0.000	179.648	11066.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
11232.60†	0.000	179.648	11166.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
11332.60†	0.000	179.648	11266.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
11432.60†	0.000	179.648	11366.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	



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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD EA 18 19 Fed Com P13 8H
Area	Lea County, NM	Well	SD EA 18 19 Fed Com P13 8H
Field	Jennings / Upper BN SPRN Shale (Lea County, NM)	Wellbore	SD EA 18 19 Fed Com P13 8H
Facility	SD EA 18 19 Fed 13		

WELLPATH DATA (233 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
11532.60†	0.000	179.648	11466.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
11632.60†	0.000	179.648	11566.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
11732.60†	0.000	179.648	11666.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
11832.60†	0.000	179.648	11766.06	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	
11864.08	0.000	179.648	11797.54	-404.27	399.91	-714.49	721654.53	382837.90	32°03'01.863"N	103°37'04.520"W	0.00	0.00	0.00	End of Tangent
11932.60†	8.223	179.648	11865.82	-399.36	395.00	-714.46	721654.56	382832.99	32°03'01.815"N	103°37'04.520"W	12.00	12.00	262.18	
12032.60†	20.223	179.648	11962.58	-374.83	370.48	-714.31	721654.72	382808.46	32°03'01.572"N	103°37'04.520"W	12.00	12.00	0.00	
12132.60†	32.223	179.648	12052.12	-330.73	326.37	-714.04	721654.99	382764.36	32°03'01.136"N	103°37'04.520"W	12.00	12.00	0.00	
12232.60†	44.223	179.648	12130.54	-268.97	264.62	-713.66	721655.37	382702.61	32°03'00.524"N	103°37'04.520"W	12.00	12.00	0.00	
12332.60†	56.223	179.648	12194.41	-192.26	187.90	-713.19	721655.84	382625.90	32°02'59.765"N	103°37'04.521"W	12.00	12.00	0.00	
12432.60†	68.223	179.648	12240.92	-103.94	99.59	-712.65	721656.38	382537.59	32°02'58.891"N	103°37'04.521"W	12.00	12.00	0.00	
12532.60†	80.223	179.648	12268.06	-7.89	3.54	-712.06	721656.97	382441.54	32°02'57.941"N	103°37'04.522"W	12.00	12.00	0.00	
12614.08	90.000	179.648	12275.00	73.20	-77.55	-711.56	721657.47	382360.46	32°02'57.138"N	103°37'04.522"W	12.00	12.00	0.00	End of Build
12632.60†	90.000	179.648	12275.00	91.72	-96.07	-711.44	721657.58	382341.94	32°02'56.955"N	103°37'04.522"W	0.00	0.00	0.00	
12732.60†	90.000	179.648	12275.00	191.72	-196.07	-710.83	721658.20	382241.94	32°02'55.965"N	103°37'04.523"W	0.00	0.00	0.00	
12832.60†	90.000	179.648	12275.00	291.72	-296.06	-710.22	721658.81	382141.95	32°02'54.976"N	103°37'04.523"W	0.00	0.00	0.00	
12932.60†	90.000	179.648	12275.00	391.72	-396.06	-709.60	721659.42	382041.95	32°02'53.986"N	103°37'04.524"W	0.00	0.00	0.00	
13032.60†	90.000	179.648	12275.00	491.72	-496.06	-708.99	721660.04	381941.96	32°02'52.997"N	103°37'04.525"W	0.00	0.00	0.00	
13132.60†	90.000	179.648	12275.00	591.72	-596.06	-708.37	721660.65	381841.96	32°02'52.007"N	103°37'04.525"W	0.00	0.00	0.00	
13232.60†	90.000	179.648	12275.00	691.72	-696.06	-707.76	721661.27	381741.97	32°02'51.018"N	103°37'04.526"W	0.00	0.00	0.00	
13332.60†	90.000	179.648	12275.00	791.72	-796.05	-707.14	721661.88	381641.97	32°02'50.028"N	103°37'04.526"W	0.00	0.00	0.00	
13432.60†	90.000	179.648	12275.00	891.72	-896.05	-706.53	721662.49	381541.98	32°02'49.038"N	103°37'04.527"W	0.00	0.00	0.00	
13532.60†	90.000	179.648	12275.00	991.72	-996.05	-705.92	721663.11	381441.99	32°02'48.049"N	103°37'04.527"W	0.00	0.00	0.00	
13632.60†	90.000	179.648	12275.00	1091.72	-1096.05	-705.30	721663.72	381341.99	32°02'47.059"N	103°37'04.528"W	0.00	0.00	0.00	
13732.60†	90.000	179.648	12275.00	1191.72	-1196.05	-704.69	721664.34	381242.00	32°02'46.070"N	103°37'04.529"W	0.00	0.00	0.00	
13832.60†	90.000	179.648	12275.00	1291.72	-1296.05	-704.07	721664.95	381142.00	32°02'45.080"N	103°37'04.529"W	0.00	0.00	0.00	
13932.60†	90.000	179.648	12275.00	1391.72	-1396.04	-703.46	721665.57	381042.01	32°02'44.091"N	103°37'04.530"W	0.00	0.00	0.00	
14032.60†	90.000	179.648	12275.00	1491.72	-1496.04	-702.85	721666.18	380942.01	32°02'43.101"N	103°37'04.530"W	0.00	0.00	0.00	
14132.60†	90.000	179.648	12275.00	1591.72	-1596.04	-702.23	721666.79	380842.02	32°02'42.111"N	103°37'04.531"W	0.00	0.00	0.00	
14232.60†	90.000	179.648	12275.00	1691.72	-1696.04	-701.62	721667.41	380742.02	32°02'41.122"N	103°37'04.531"W	0.00	0.00	0.00	



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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD EA 18 19 Fed Com P13 8H
Area	Lea County, NM	Well	SD EA 18 19 Fed Com P13 8H
Field	Jennings / Upper BN SPRN Shale (Lea County, NM)	Wellbore	SD EA 18 19 Fed Com P13 8H
Facility	SD EA 18 19 Fed 13		

WELLPATH DATA (233 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
14332.60†	90.000	179.648	12275.00	1791.72	-1796.04	-701.00	721668.02	380642.03	32°02'40.132"N	103°37'04.532"W	0.00	0.00	0.00	
14432.60†	90.000	179.648	12275.00	1891.72	-1896.03	-700.39	721668.64	380542.03	32°02'39.143"N	103°37'04.532"W	0.00	0.00	0.00	
14532.60†	90.000	179.648	12275.00	1991.72	-1996.03	-699.77	721669.25	380442.04	32°02'38.153"N	103°37'04.533"W	0.00	0.00	0.00	
14632.60†	90.000	179.648	12275.00	2091.72	-2096.03	-699.16	721669.87	380342.05	32°02'37.164"N	103°37'04.534"W	0.00	0.00	0.00	
14732.60†	90.000	179.648	12275.00	2191.72	-2196.03	-698.55	721670.48	380242.05	32°02'36.174"N	103°37'04.534"W	0.00	0.00	0.00	
14832.60†	90.000	179.648	12275.00	2291.72	-2296.03	-697.93	721671.09	380142.06	32°02'35.184"N	103°37'04.535"W	0.00	0.00	0.00	
14932.60†	90.000	179.648	12275.00	2391.72	-2396.02	-697.32	721671.71	380042.06	32°02'34.195"N	103°37'04.535"W	0.00	0.00	0.00	
15032.60†	90.000	179.648	12275.00	2491.72	-2496.02	-696.70	721672.32	379942.07	32°02'33.205"N	103°37'04.536"W	0.00	0.00	0.00	
15132.60†	90.000	179.648	12275.00	2591.72	-2596.02	-696.09	721672.94	379842.07	32°02'32.216"N	103°37'04.536"W	0.00	0.00	0.00	
15232.60†	90.000	179.648	12275.00	2691.72	-2696.02	-695.47	721673.55	379742.08	32°02'31.226"N	103°37'04.537"W	0.00	0.00	0.00	
15332.60†	90.000	179.648	12275.00	2791.72	-2796.02	-694.86	721674.17	379642.08	32°02'30.237"N	103°37'04.537"W	0.00	0.00	0.00	
15432.60†	90.000	179.648	12275.00	2891.72	-2896.01	-694.25	721674.78	379542.09	32°02'29.247"N	103°37'04.538"W	0.00	0.00	0.00	
15532.60†	90.000	179.648	12275.00	2991.72	-2996.01	-693.63	721675.39	379442.10	32°02'28.257"N	103°37'04.539"W	0.00	0.00	0.00	
15632.60†	90.000	179.648	12275.00	3091.72	-3096.01	-693.02	721676.01	379342.10	32°02'27.268"N	103°37'04.539"W	0.00	0.00	0.00	
15732.60†	90.000	179.648	12275.00	3191.72	-3196.01	-692.40	721676.62	379242.11	32°02'26.278"N	103°37'04.540"W	0.00	0.00	0.00	
15832.60†	90.000	179.648	12275.00	3291.72	-3296.01	-691.79	721677.24	379142.11	32°02'25.289"N	103°37'04.540"W	0.00	0.00	0.00	
15932.60†	90.000	179.648	12275.00	3391.72	-3396.01	-691.17	721677.85	379042.12	32°02'24.299"N	103°37'04.541"W	0.00	0.00	0.00	
16032.60†	90.000	179.648	12275.00	3491.72	-3496.00	-690.56	721678.47	378942.12	32°02'23.310"N	103°37'04.541"W	0.00	0.00	0.00	
16132.60†	90.000	179.648	12275.00	3591.72	-3596.00	-689.95	721679.08	378842.13	32°02'22.320"N	103°37'04.542"W	0.00	0.00	0.00	
16232.60†	90.000	179.648	12275.00	3691.72	-3696.00	-689.33	721679.69	378742.13	32°02'21.330"N	103°37'04.543"W	0.00	0.00	0.00	
16332.60†	90.000	179.648	12275.00	3791.72	-3796.00	-688.72	721680.31	378642.14	32°02'20.341"N	103°37'04.543"W	0.00	0.00	0.00	
16432.60†	90.000	179.648	12275.00	3891.72	-3896.00	-688.10	721680.92	378542.15	32°02'19.351"N	103°37'04.544"W	0.00	0.00	0.00	
16532.60†	90.000	179.648	12275.00	3991.72	-3995.99	-687.49	721681.54	378442.15	32°02'18.362"N	103°37'04.544"W	0.00	0.00	0.00	
16632.60†	90.000	179.648	12275.00	4091.72	-4095.99	-686.87	721682.15	378342.16	32°02'17.372"N	103°37'04.545"W	0.00	0.00	0.00	
16732.60†	90.000	179.648	12275.00	4191.72	-4195.99	-686.26	721682.76	378242.16	32°02'16.382"N	103°37'04.545"W	0.00	0.00	0.00	
16832.60†	90.000	179.648	12275.00	4291.72	-4295.99	-685.65	721683.38	378142.17	32°02'15.393"N	103°37'04.546"W	0.00	0.00	0.00	
16932.60†	90.000	179.648	12275.00	4391.72	-4395.99	-685.03	721683.99	378042.17	32°02'14.403"N	103°37'04.546"W	0.00	0.00	0.00	
17032.60†	90.000	179.648	12275.00	4491.72	-4495.98	-684.42	721684.61	377942.18	32°02'13.414"N	103°37'04.547"W	0.00	0.00	0.00	
17132.60†	90.000	179.648	12275.00	4591.72	-4595.98	-683.80	721685.22	377842.18	32°02'12.424"N	103°37'04.548"W	0.00	0.00	0.00	
17232.60†	90.000	179.648	12275.00	4691.72	-4695.98	-683.19	721685.84	377742.19	32°02'11.435"N	103°37'04.548"W	0.00	0.00	0.00	



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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD EA 18 19 Fed Com P13 8H
Area	Lea County, NM	Well	SD EA 18 19 Fed Com P13 8H
Field	Jennings / Upper BN SPRN Shale (Lea County, NM)	Wellbore	SD EA 18 19 Fed Com P13 8H
Facility	SD EA 18 19 Fed 13		

WELLPATH DATA (233 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
17332.60†	90.000	179.648	12275.00	4791.72	-4795.98	-682.57	721686.45	377642.19	32°02'10.445"N	103°37'04.549"W	0.00	0.00	0.00	
17432.60†	90.000	179.648	12275.00	4891.72	-4895.98	-681.96	721687.06	377542.20	32°02'09.455"N	103°37'04.549"W	0.00	0.00	0.00	
17532.60†	90.000	179.648	12275.00	4991.72	-4995.98	-681.35	721687.68	377442.21	32°02'08.466"N	103°37'04.550"W	0.00	0.00	0.00	
17632.60†	90.000	179.648	12275.00	5091.72	-5095.97	-680.73	721688.29	377342.21	32°02'07.476"N	103°37'04.550"W	0.00	0.00	0.00	
17732.60†	90.000	179.648	12275.00	5191.72	-5195.97	-680.12	721688.91	377242.22	32°02'06.487"N	103°37'04.551"W	0.00	0.00	0.00	
17832.60†	90.000	179.648	12275.00	5291.72	-5295.97	-679.50	721689.52	377142.22	32°02'05.497"N	103°37'04.551"W	0.00	0.00	0.00	
17932.60†	90.000	179.648	12275.00	5391.72	-5395.97	-678.89	721690.14	377042.23	32°02'04.508"N	103°37'04.552"W	0.00	0.00	0.00	
18032.60†	90.000	179.648	12275.00	5491.72	-5495.97	-678.27	721690.75	376942.23	32°02'03.518"N	103°37'04.553"W	0.00	0.00	0.00	
18132.60†	90.000	179.648	12275.00	5591.72	-5595.96	-677.66	721691.36	376842.24	32°02'02.528"N	103°37'04.553"W	0.00	0.00	0.00	
18232.60†	90.000	179.648	12275.00	5691.72	-5695.96	-677.05	721691.98	376742.24	32°02'01.539"N	103°37'04.554"W	0.00	0.00	0.00	
18332.60†	90.000	179.648	12275.00	5791.72	-5795.96	-676.43	721692.59	376642.25	32°02'00.549"N	103°37'04.554"W	0.00	0.00	0.00	
18432.60†	90.000	179.648	12275.00	5891.72	-5895.96	-675.82	721693.21	376542.26	32°01'59.560"N	103°37'04.555"W	0.00	0.00	0.00	
18532.60†	90.000	179.648	12275.00	5991.72	-5995.96	-675.20	721693.82	376442.26	32°01'58.570"N	103°37'04.555"W	0.00	0.00	0.00	
18632.60†	90.000	179.648	12275.00	6091.72	-6095.95	-674.59	721694.44	376342.27	32°01'57.581"N	103°37'04.556"W	0.00	0.00	0.00	
18732.60†	90.000	179.648	12275.00	6191.72	-6195.95	-673.98	721695.05	376242.27	32°01'56.591"N	103°37'04.557"W	0.00	0.00	0.00	
18832.60†	90.000	179.648	12275.00	6291.72	-6295.95	-673.36	721695.66	376142.28	32°01'55.601"N	103°37'04.557"W	0.00	0.00	0.00	
18932.60†	90.000	179.648	12275.00	6391.72	-6395.95	-672.75	721696.28	376042.28	32°01'54.612"N	103°37'04.558"W	0.00	0.00	0.00	
19032.60†	90.000	179.648	12275.00	6491.72	-6495.95	-672.13	721696.89	375942.29	32°01'53.622"N	103°37'04.558"W	0.00	0.00	0.00	
19132.60†	90.000	179.648	12275.00	6591.72	-6595.95	-671.52	721697.51	375842.29	32°01'52.633"N	103°37'04.559"W	0.00	0.00	0.00	
19232.60†	90.000	179.648	12275.00	6691.72	-6695.94	-670.90	721698.12	375742.30	32°01'51.643"N	103°37'04.559"W	0.00	0.00	0.00	
19332.60†	90.000	179.648	12275.00	6791.72	-6795.94	-670.29	721698.73	375642.31	32°01'50.653"N	103°37'04.560"W	0.00	0.00	0.00	
19432.60†	90.000	179.648	12275.00	6891.72	-6895.94	-669.68	721699.35	375542.31	32°01'49.664"N	103°37'04.560"W	0.00	0.00	0.00	
19532.60†	90.000	179.648	12275.00	6991.72	-6995.94	-669.06	721699.96	375442.32	32°01'48.674"N	103°37'04.561"W	0.00	0.00	0.00	
19632.60†	90.000	179.648	12275.00	7091.72	-7095.94	-668.45	721700.58	375342.32	32°01'47.685"N	103°37'04.562"W	0.00	0.00	0.00	
19732.60†	90.000	179.648	12275.00	7191.72	-7195.93	-667.83	721701.19	375242.33	32°01'46.695"N	103°37'04.562"W	0.00	0.00	0.00	
19832.60†	90.000	179.648	12275.00	7291.72	-7295.93	-667.22	721701.81	375142.33	32°01'45.706"N	103°37'04.563"W	0.00	0.00	0.00	
19932.60†	90.000	179.648	12275.00	7391.72	-7395.93	-666.60	721702.42	375042.34	32°01'44.716"N	103°37'04.563"W	0.00	0.00	0.00	
20032.60†	90.000	179.648	12275.00	7491.72	-7495.93	-665.99	721703.03	374942.34	32°01'43.726"N	103°37'04.564"W	0.00	0.00	0.00	
20132.60†	90.000	179.648	12275.00	7591.72	-7595.93	-665.38	721703.65	374842.35	32°01'42.737"N	103°37'04.564"W	0.00	0.00	0.00	
20232.60†	90.000	179.648	12275.00	7691.72	-7695.92	-664.76	721704.26	374742.35	32°01'41.747"N	103°37'04.565"W	0.00	0.00	0.00	



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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD EA 18 19 Fed Com P13 8H
Area	Lea County, NM	Well	SD EA 18 19 Fed Com P13 8H
Field	Jennings / Upper BN SPRN Shale (Lea County, NM)	Wellbore	SD EA 18 19 Fed Com P13 8H
Facility	SD EA 18 19 Fed 13		

WELLPATH DATA (233 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
20332.60†	90.000	179.648	12275.00	7791.72	-7795.92	-664.15	721704.88	374642.36	32°01'40.758"N	103°37'04.565"W	0.00	0.00	0.00	
20432.60†	90.000	179.648	12275.00	7891.72	-7895.92	-663.53	721705.49	374542.37	32°01'39.768"N	103°37'04.566"W	0.00	0.00	0.00	
20532.60†	90.000	179.648	12275.00	7991.72	-7995.92	-662.92	721706.11	374442.37	32°01'38.779"N	103°37'04.567"W	0.00	0.00	0.00	
20632.60†	90.000	179.648	12275.00	8091.72	-8095.92	-662.30	721706.72	374342.38	32°01'37.789"N	103°37'04.567"W	0.00	0.00	0.00	
20732.60†	90.000	179.648	12275.00	8191.72	-8195.91	-661.69	721707.33	374242.38	32°01'36.799"N	103°37'04.568"W	0.00	0.00	0.00	
20832.60†	90.000	179.648	12275.00	8291.72	-8295.91	-661.08	721707.95	374142.39	32°01'35.810"N	103°37'04.568"W	0.00	0.00	0.00	
20932.60†	90.000	179.648	12275.00	8391.72	-8395.91	-660.46	721708.56	374042.39	32°01'34.820"N	103°37'04.569"W	0.00	0.00	0.00	
21032.60†	90.000	179.648	12275.00	8491.72	-8495.91	-659.85	721709.18	373942.40	32°01'33.831"N	103°37'04.569"W	0.00	0.00	0.00	
21132.60†	90.000	179.648	12275.00	8591.72	-8595.91	-659.23	721709.79	373842.40	32°01'32.841"N	103°37'04.570"W	0.00	0.00	0.00	
21232.60†	90.000	179.648	12275.00	8691.72	-8695.91	-658.62	721710.41	373742.41	32°01'31.852"N	103°37'04.570"W	0.00	0.00	0.00	
21332.60†	90.000	179.648	12275.00	8791.72	-8795.90	-658.00	721711.02	373642.42	32°01'30.862"N	103°37'04.571"W	0.00	0.00	0.00	
21432.60†	90.000	179.648	12275.00	8891.72	-8895.90	-657.39	721711.63	373542.42	32°01'29.872"N	103°37'04.572"W	0.00	0.00	0.00	
21532.60†	90.000	179.648	12275.00	8991.72	-8995.90	-656.78	721712.25	373442.43	32°01'28.883"N	103°37'04.572"W	0.00	0.00	0.00	
21632.60†	90.000	179.648	12275.00	9091.72	-9095.90	-656.16	721712.86	373342.43	32°01'27.893"N	103°37'04.573"W	0.00	0.00	0.00	
21732.60†	90.000	179.648	12275.00	9191.72	-9195.90	-655.55	721713.48	373242.44	32°01'26.904"N	103°37'04.573"W	0.00	0.00	0.00	
21832.60†	90.000	179.648	12275.00	9291.72	-9295.89	-654.93	721714.09	373142.44	32°01'25.914"N	103°37'04.574"W	0.00	0.00	0.00	
21932.60†	90.000	179.648	12275.00	9391.72	-9395.89	-654.32	721714.70	373042.45	32°01'24.924"N	103°37'04.574"W	0.00	0.00	0.00	
22032.60†	90.000	179.648	12275.00	9491.72	-9495.89	-653.70	721715.32	372942.45	32°01'23.935"N	103°37'04.575"W	0.00	0.00	0.00	
22132.60†	90.000	179.648	12275.00	9591.72	-9595.89	-653.09	721715.93	372842.46	32°01'22.945"N	103°37'04.575"W	0.00	0.00	0.00	
22232.60†	90.000	179.648	12275.00	9691.72	-9695.89	-652.48	721716.55	372742.46	32°01'21.956"N	103°37'04.576"W	0.00	0.00	0.00	
22332.60†	90.000	179.648	12275.00	9791.72	-9795.88	-651.86	721717.16	372642.47	32°01'20.966"N	103°37'04.577"W	0.00	0.00	0.00	
22432.60†	90.000	179.648	12275.00	9891.72	-9895.88	-651.25	721717.78	372542.48	32°01'19.977"N	103°37'04.577"W	0.00	0.00	0.00	
22469.08	90.000	179.648	12275.00†	9928.20	-9932.36	-651.02	721718.00	372506.00	32°01'19.616"N	103°37'04.577"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 18 19 Fed Com P13 8H
Area	Lea County, NM	Well	SD EA 18 19 Fed Com P13 8H
Field	Jennings / Upper BN SPRN Shale (Lea County, NM)	Wellbore	SD EA 18 19 Fed Com P13 8H
Facility	SD EA 18 19 Fed 13		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) SD EA 18 19 Fed Com P13 8H PBHL rev 1	22469.08	12275.00	-9932.36	-651.02	721718.00	372506.00	32°01'19.616"N	103°37'04.577"W	point

SURVEY PROGRAM - Ref Wellbore: SD EA 18 19 Fed Com P13 8H Ref Wellpath: SD EA 18 19 Fed Com P13 8H Rev A.0

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
32.60	22735.05	BHI NaviTrak (Standard)		SD EA 18 19 Fed Com P13 8H