



Chevron U.S.A. Inc.

Location: Lea County, NM
Field: Jennings / Upper BN SPR Shale (Lea County, NM)
Facility: SD EA 18-19 Fed P15

Slot: SD EA 18 19 FED COM P15 16H
Well: SD EA 18 19 FED COM P15 16H
Wellbore: SD EA 18 19 FED COM P15 16H PWB



Well Profile Data

Design Comment	MD (ft)	Inc (")	Az (")	TVD (ft)	Local N (ft)	Local E (ft)	DLS ("/100ft)	VS (ft)
Tie On	32.60	0.000	304.289	32.60	0.00	0.00	0.00	0.00
End of Tangent	1700.00	0.000	304.289	1700.00	0.00	0.00	0.00	0.00
End of Build	2300.00	9.000	304.289	2297.54	26.49	-38.85	1.50	-26.78
End of Tangent	6212.79	9.000	304.289	6162.16	371.33	-544.57	0.00	-375.41
End of Drop	6812.79	0.000	179.565	6759.69	397.82	-583.42	1.50	-402.19
End of Tangent	11850.64	0.000	179.565	11797.54	397.82	-583.42	0.00	-402.19
End of Build	12600.64	90.000	179.565	12275.00	-79.63	-579.80	12.00	75.27
End of Tangent	22450.64	90.000	179.565	12275.00	-9929.34	-505.02	0.00	9925.27

Bottom Hole Location

MD (ft)	Inc (")	Az (")	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
22450.64	90.000	179.565	12275.00	-9929.34	-505.02	724992.00	372532.00	32°01'19.65"N	103°36'26.54"W

Plot reference wellbore is SD EA 18 19 FED COM P15 16H Rev 3.0

True vertical depths are referenced to Rig Nabors X30 (KB)

Measured depths are referenced to Rig Nabors X30 (KB)

Rig Nabors X30 (KB) to Mean Sea Level: 3263.6 feet

Mean Sea Level to Ground level (At Slot: SD EA 18 19 FED COM P15 16H): -3231 feet

Coordinates are in feet referenced to Slot

Grid System: NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet

* - Wellbore was transformed from a different geodetic datum

North Reference: Grid north

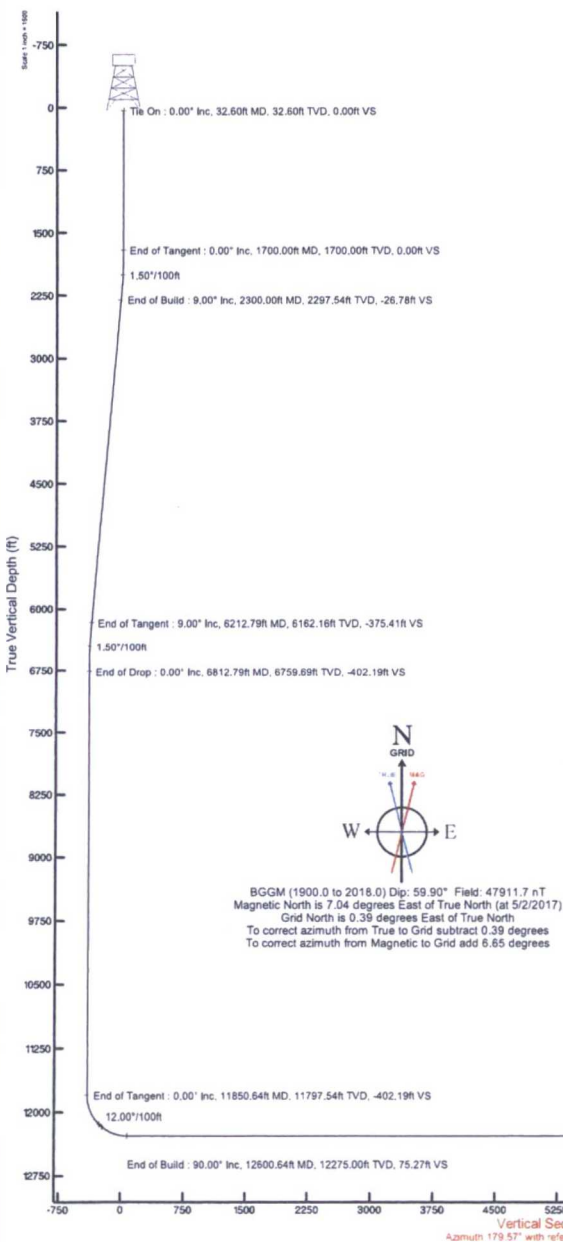
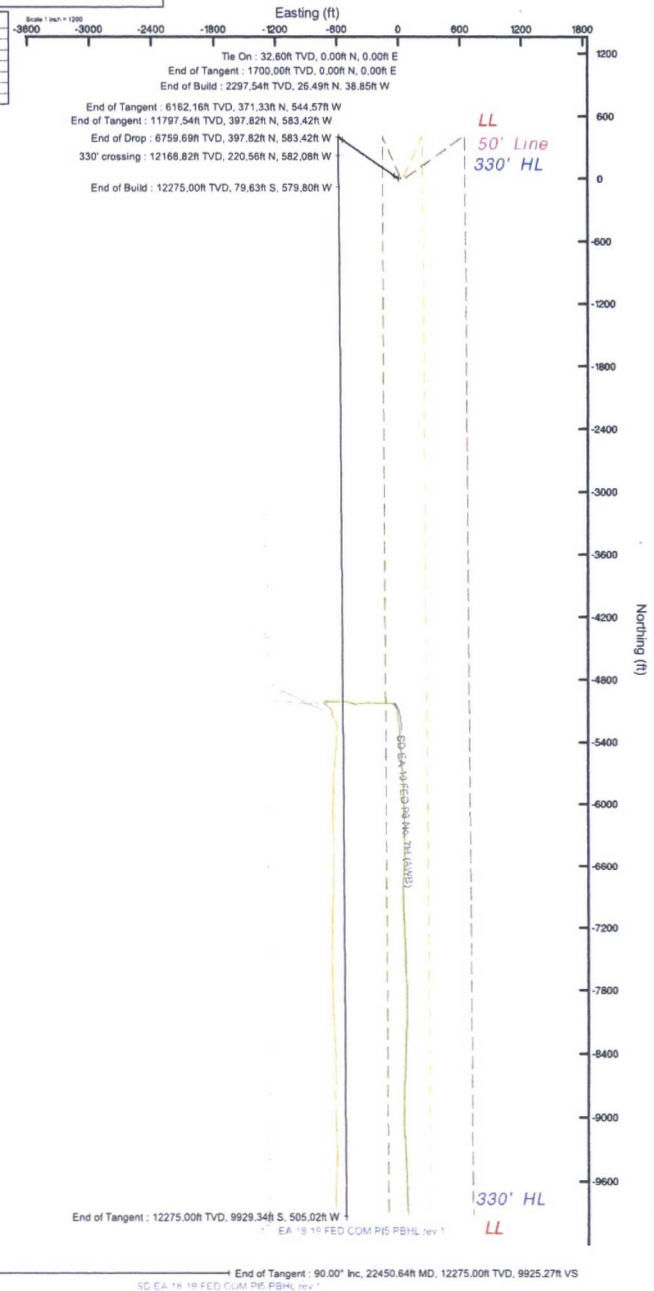
Scale: True distance

Depths are in feet

Created by: btrans on 2017-05-03

Database: WA, Midland

Location Information			
Facility Name	SD EA 18-19 Fed P15	Grid East (US ft)	724992.00
Slot	SD EA 18 19 FED COM P15 16H	Grid North (US ft)	372532.00
Local N (ft)	0.00	Latitude	32°01'19.65"N
Local E (ft)	0.00	Longitude	103°36'26.54"W
Grid East (US ft)	724992.00	Grid North (US ft)	372532.00
Latitude	32°01'19.65"N	Longitude	103°36'26.54"W
Mean Sea Level to Ground level (At Slot: SD EA 18 19 FED COM P15 16H)	-3231 feet		
Rig Nabors X30 (KB) to Mean Sea Level	3263.6 feet		





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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD EA 18 19 FED COM P15 16H
Area	Lea County, NM	Well	SD EA 18 19 FED COM P15 16H
Field	Jennings / Upper BN SPR Shale (Lea County, NM)	Wellbore	SD EA 18 19 FED COM P15 16H PWB
Facility	SD EA 18-19 Fed P15		

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	0.999967	Report Generated	5/3/2017 at 1:15:48 PM
Convergence at slot	0.39° East	Database/Source file	WA_Midland/SD_EA_18_19_FED_COM_P15_16H_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	725497.00	382461.00	32°02'57.879"N	103°36'19.905"W
Facility Reference Pt			725497.00	382461.00	32°02'57.879"N	103°36'19.905"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	3263.60ft
Horizontal Reference Pt	Slot	Rig: Nabors X30 (KB) to Mean Sea Level	3263.60ft
Vertical Reference Pt	Rig: Nabors X30 (KB)	Rig: Nabors X30 (KB) to Ground Level at Slot (SD EA 18 19 FED COM P15 16H)	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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Field	Jennings / Upper BN SPR Shale (Lea County, NM)	Wellbore	SD EA 18 19 FED COM P15 16H PWB
Facility	SD EA 18-19 Fed P15		

WELLPATH DATA (234 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	304.289	0.00	0.00	0.00	0.00	725497.00	382461.00	32°02'57.879"N	103°36'19.905"W	0.00	0.00	0.00	
32.60	0.000	304.289	32.60	0.00	0.00	0.00	725497.00	382461.00	32°02'57.879"N	103°36'19.905"W	0.00	0.00	0.00	
132.60†	0.000	304.289	132.60	0.00	0.00	0.00	725497.00	382461.00	32°02'57.879"N	103°36'19.905"W	0.00	0.00	0.00	
232.60†	0.000	304.289	232.60	0.00	0.00	0.00	725497.00	382461.00	32°02'57.879"N	103°36'19.905"W	0.00	0.00	0.00	
332.60†	0.000	304.289	332.60	0.00	0.00	0.00	725497.00	382461.00	32°02'57.879"N	103°36'19.905"W	0.00	0.00	0.00	
432.60†	0.000	304.289	432.60	0.00	0.00	0.00	725497.00	382461.00	32°02'57.879"N	103°36'19.905"W	0.00	0.00	0.00	
532.60†	0.000	304.289	532.60	0.00	0.00	0.00	725497.00	382461.00	32°02'57.879"N	103°36'19.905"W	0.00	0.00	0.00	
632.60†	0.000	304.289	632.60	0.00	0.00	0.00	725497.00	382461.00	32°02'57.879"N	103°36'19.905"W	0.00	0.00	0.00	
732.60†	0.000	304.289	732.60	0.00	0.00	0.00	725497.00	382461.00	32°02'57.879"N	103°36'19.905"W	0.00	0.00	0.00	
832.60†	0.000	304.289	832.60	0.00	0.00	0.00	725497.00	382461.00	32°02'57.879"N	103°36'19.905"W	0.00	0.00	0.00	
932.60†	0.000	304.289	932.60	0.00	0.00	0.00	725497.00	382461.00	32°02'57.879"N	103°36'19.905"W	0.00	0.00	0.00	
1032.60†	0.000	304.289	1032.60	0.00	0.00	0.00	725497.00	382461.00	32°02'57.879"N	103°36'19.905"W	0.00	0.00	0.00	
1132.60†	0.000	304.289	1132.60	0.00	0.00	0.00	725497.00	382461.00	32°02'57.879"N	103°36'19.905"W	0.00	0.00	0.00	
1232.60†	0.000	304.289	1232.60	0.00	0.00	0.00	725497.00	382461.00	32°02'57.879"N	103°36'19.905"W	0.00	0.00	0.00	
1332.60†	0.000	304.289	1332.60	0.00	0.00	0.00	725497.00	382461.00	32°02'57.879"N	103°36'19.905"W	0.00	0.00	0.00	
1432.60†	0.000	304.289	1432.60	0.00	0.00	0.00	725497.00	382461.00	32°02'57.879"N	103°36'19.905"W	0.00	0.00	0.00	
1532.60†	0.000	304.289	1532.60	0.00	0.00	0.00	725497.00	382461.00	32°02'57.879"N	103°36'19.905"W	0.00	0.00	0.00	
1632.60†	0.000	304.289	1632.60	0.00	0.00	0.00	725497.00	382461.00	32°02'57.879"N	103°36'19.905"W	0.00	0.00	0.00	
1700.00	0.000	304.289	1700.00	0.00	0.00	0.00	725497.00	382461.00	32°02'57.879"N	103°36'19.905"W	0.00	0.00	0.00	
1732.60†	0.489	304.289	1732.60	-0.08	0.08	-0.11	725496.89	382461.08	32°02'57.880"N	103°36'19.907"W	1.50	1.50	-170.89	
1832.60†	1.989	304.289	1832.57	-1.31	1.30	-1.90	725495.10	382462.30	32°02'57.892"N	103°36'19.927"W	1.50	1.50	0.00	
1932.60†	3.489	304.289	1932.46	-4.03	3.99	-5.85	725491.15	382464.99	32°02'57.919"N	103°36'19.973"W	1.50	1.50	0.00	
2032.60†	4.989	304.289	2032.18	-8.24	8.15	-11.96	725485.04	382469.15	32°02'57.961"N	103°36'20.043"W	1.50	1.50	0.00	
2132.60†	6.489	304.289	2131.68	-13.94	13.79	-20.22	725476.78	382474.79	32°02'58.017"N	103°36'20.139"W	1.50	1.50	0.00	
2232.60†	7.989	304.289	2230.88	-21.11	20.88	-30.63	725466.37	382481.88	32°02'58.088"N	103°36'20.259"W	1.50	1.50	0.00	
2300.00	9.000	304.289	2297.54	-26.78	26.49	-38.85	725458.15	382487.49	32°02'58.144"N	103°36'20.355"W	1.50	1.50	0.00	
2332.60†	9.000	304.289	2329.73	-29.69	29.37	-43.07	725453.93	382490.37	32°02'58.173"N	103°36'20.403"W	0.00	0.00	0.00	
2432.60†	9.000	304.289	2428.50	-38.60	38.18	-55.99	725441.01	382499.18	32°02'58.261"N	103°36'20.553"W	0.00	0.00	0.00	
2532.60†	9.000	304.289	2527.27	-47.51	46.99	-68.92	725428.09	382507.99	32°02'58.349"N	103°36'20.702"W	0.00	0.00	0.00	
2632.60†	9.000	304.289	2626.04	-56.42	55.81	-81.84	725415.16	382516.80	32°02'58.437"N	103°36'20.852"W	0.00	0.00	0.00	



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Facility	SD EA 18-19 Fed P15		

WELLPATH DATA (234 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†	9.000	304.289	2724.81	-65.33	64.62	-94.77	725402.24	382525.62	32°02'58.525"N	103°36'21.001"W	0.00	0.00	0.00	
2832.60†	9.000	304.289	2823.58	-74.24	73.43	-107.69	725389.31	382534.43	32°02'58.613"N	103°36'21.151"W	0.00	0.00	0.00	
2932.60†	9.000	304.289	2922.35	-83.15	82.24	-120.62	725376.39	382543.24	32°02'58.701"N	103°36'21.300"W	0.00	0.00	0.00	
3032.60†	9.000	304.289	3021.12	-92.06	91.06	-133.54	725363.46	382552.05	32°02'58.789"N	103°36'21.450"W	0.00	0.00	0.00	
3132.60†	9.000	304.289	3119.88	-100.97	99.87	-146.47	725350.54	382560.87	32°02'58.877"N	103°36'21.599"W	0.00	0.00	0.00	
3232.60†	9.000	304.289	3218.65	-109.88	108.68	-159.39	725337.62	382569.68	32°02'58.965"N	103°36'21.749"W	0.00	0.00	0.00	
3332.60†	9.000	304.289	3317.42	-118.79	117.50	-172.31	725324.69	382578.49	32°02'59.054"N	103°36'21.898"W	0.00	0.00	0.00	
3432.60†	9.000	304.289	3416.19	-127.70	126.31	-185.24	725311.77	382587.31	32°02'59.142"N	103°36'22.047"W	0.00	0.00	0.00	
3532.60†	9.000	304.289	3514.96	-136.61	135.12	-198.16	725298.84	382596.12	32°02'59.230"N	103°36'22.197"W	0.00	0.00	0.00	
3632.60†	9.000	304.289	3613.73	-145.52	143.94	-211.09	725285.92	382604.93	32°02'59.318"N	103°36'22.346"W	0.00	0.00	0.00	
3732.60†	9.000	304.289	3712.50	-154.43	152.75	-224.01	725272.99	382613.74	32°02'59.406"N	103°36'22.496"W	0.00	0.00	0.00	
3832.60†	9.000	304.289	3811.27	-163.34	161.56	-236.94	725260.07	382622.56	32°02'59.494"N	103°36'22.645"W	0.00	0.00	0.00	
3932.60†	9.000	304.289	3910.04	-172.25	170.38	-249.86	725247.15	382631.37	32°02'59.582"N	103°36'22.795"W	0.00	0.00	0.00	
4032.60†	9.000	304.289	4008.80	-181.16	179.19	-262.79	725234.22	382640.18	32°02'59.670"N	103°36'22.944"W	0.00	0.00	0.00	
4132.60†	9.000	304.289	4107.57	-190.07	188.00	-275.71	725221.30	382648.99	32°02'59.758"N	103°36'23.094"W	0.00	0.00	0.00	
4232.60†	9.000	304.289	4206.34	-198.97	196.81	-288.64	725208.37	382657.81	32°02'59.846"N	103°36'23.243"W	0.00	0.00	0.00	
4332.60†	9.000	304.289	4305.11	-207.88	205.63	-301.56	725195.45	382666.62	32°02'59.934"N	103°36'23.393"W	0.00	0.00	0.00	
4432.60†	9.000	304.289	4403.88	-216.79	214.44	-314.49	725182.52	382675.43	32°03'00.022"N	103°36'23.542"W	0.00	0.00	0.00	
4532.60†	9.000	304.289	4502.65	-225.70	223.25	-327.41	725169.60	382684.25	32°03'00.110"N	103°36'23.692"W	0.00	0.00	0.00	
4632.60†	9.000	304.289	4601.42	-234.61	232.07	-340.34	725156.68	382693.06	32°03'00.198"N	103°36'23.841"W	0.00	0.00	0.00	
4732.60†	9.000	304.289	4700.19	-243.52	240.88	-353.26	725143.75	382701.87	32°03'00.287"N	103°36'23.991"W	0.00	0.00	0.00	
4832.60†	9.000	304.289	4798.96	-252.43	249.69	-366.18	725130.83	382710.68	32°03'00.375"N	103°36'24.140"W	0.00	0.00	0.00	
4932.60†	9.000	304.289	4897.72	-261.34	258.51	-379.11	725117.90	382719.50	32°03'00.463"N	103°36'24.290"W	0.00	0.00	0.00	
5032.60†	9.000	304.289	4996.49	-270.25	267.32	-392.03	725104.98	382728.31	32°03'00.551"N	103°36'24.439"W	0.00	0.00	0.00	
5132.60†	9.000	304.289	5095.26	-279.16	276.13	-404.96	725092.06	382737.12	32°03'00.639"N	103°36'24.588"W	0.00	0.00	0.00	
5232.60†	9.000	304.289	5194.03	-288.07	284.94	-417.88	725079.13	382745.93	32°03'00.727"N	103°36'24.738"W	0.00	0.00	0.00	
5332.60†	9.000	304.289	5292.80	-296.98	293.76	-430.81	725066.21	382754.75	32°03'00.815"N	103°36'24.887"W	0.00	0.00	0.00	
5432.60†	9.000	304.289	5391.57	-305.89	302.57	-443.73	725053.28	382763.56	32°03'00.903"N	103°36'25.037"W	0.00	0.00	0.00	
5532.60†	9.000	304.289	5490.34	-314.80	311.38	-456.66	725040.36	382772.37	32°03'00.991"N	103°36'25.186"W	0.00	0.00	0.00	
5632.60†	9.000	304.289	5589.11	-323.71	320.20	-469.58	725027.43	382781.19	32°03'01.079"N	103°36'25.336"W	0.00	0.00	0.00	



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5732.60†	9.000	304.289	5687.87	-332.62	329.01	-482.51	725014.51	382790.00	32°03'01.167"N	103°36'25.485"W	0.00	0.00	0.00	
5832.60†	9.000	304.289	5786.64	-341.53	337.82	-495.43	725001.59	382798.81	32°03'01.255"N	103°36'25.635"W	0.00	0.00	0.00	
5932.60†	9.000	304.289	5885.41	-350.44	346.64	-508.36	724988.66	382807.62	32°03'01.343"N	103°36'25.784"W	0.00	0.00	0.00	
6032.60†	9.000	304.289	5984.18	-359.35	355.45	-521.28	724975.74	382816.44	32°03'01.431"N	103°36'25.934"W	0.00	0.00	0.00	
6132.60†	9.000	304.289	6082.95	-368.26	364.26	-534.21	724962.81	382825.25	32°03'01.520"N	103°36'26.083"W	0.00	0.00	0.00	
6212.79	9.000	304.289	6162.16	-375.41	371.33	-544.57	724952.45	382832.32	32°03'01.590"N	103°36'26.203"W	0.00	0.00	0.00	
6232.60†	8.703	304.289	6181.73	-377.14	373.05	-547.09	724949.93	382834.03	32°03'01.607"N	103°36'26.232"W	1.50	-1.50	0.00	
6332.60†	7.203	304.289	6280.76	-385.02	380.84	-558.52	724938.50	382841.83	32°03'01.685"N	103°36'26.364"W	1.50	-1.50	0.00	
6432.60†	5.703	304.289	6380.13	-391.42	387.17	-567.80	724929.21	382848.16	32°03'01.748"N	103°36'26.472"W	1.50	-1.50	0.00	
6532.60†	4.203	304.289	6479.75	-396.34	392.04	-574.94	724922.08	382853.02	32°03'01.797"N	103°36'26.554"W	1.50	-1.50	0.00	
6632.60†	2.703	304.289	6579.57	-399.77	395.43	-579.91	724917.11	382856.42	32°03'01.831"N	103°36'26.612"W	1.50	-1.50	0.00	
6732.60†	1.203	304.289	6679.50	-401.71	397.35	-582.73	724914.29	382858.34	32°03'01.850"N	103°36'26.644"W	1.50	-1.50	0.00	
6812.79	0.000	179.565	6759.69	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	1.50	-1.50	69.47	
6832.60†	0.000	179.565	6779.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
6932.60†	0.000	179.565	6879.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
7032.60†	0.000	179.565	6979.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
7132.60†	0.000	179.565	7079.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
7232.60†	0.000	179.565	7179.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
7332.60†	0.000	179.565	7279.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
7432.60†	0.000	179.565	7379.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
7532.60†	0.000	179.565	7479.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
7632.60†	0.000	179.565	7579.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
7732.60†	0.000	179.565	7679.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
7832.60†	0.000	179.565	7779.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
7932.60†	0.000	179.565	7879.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
8032.60†	0.000	179.565	7979.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
8132.60†	0.000	179.565	8079.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
8232.60†	0.000	179.565	8179.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
8332.60†	0.000	179.565	8279.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
8432.60†	0.000	179.565	8379.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"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 P15 16H
Area	Lea County, NM	Well	SD EA 18 19 FED COM P15 16H
Field	Jennings / Upper BN SPR Shale (Lea County, NM)	Wellbore	SD EA 18 19 FED COM P15 16H PWB
Facility	SD EA 18-19 Fed P15		

WELLPATH DATA (234 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	179.565	8479.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
8632.60†	0.000	179.565	8579.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
8732.60†	0.000	179.565	8679.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
8832.60†	0.000	179.565	8779.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
8932.60†	0.000	179.565	8879.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
9032.60†	0.000	179.565	8979.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
9132.60†	0.000	179.565	9079.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
9232.60†	0.000	179.565	9179.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
9332.60†	0.000	179.565	9279.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
9432.60†	0.000	179.565	9379.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
9532.60†	0.000	179.565	9479.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
9632.60†	0.000	179.565	9579.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
9732.60†	0.000	179.565	9679.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
9832.60†	0.000	179.565	9779.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
9932.60†	0.000	179.565	9879.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
10032.60†	0.000	179.565	9979.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
10132.60†	0.000	179.565	10079.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
10232.60†	0.000	179.565	10179.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
10332.60†	0.000	179.565	10279.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
10432.60†	0.000	179.565	10379.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
10532.60†	0.000	179.565	10479.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
10632.60†	0.000	179.565	10579.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
10732.60†	0.000	179.565	10679.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
10832.60†	0.000	179.565	10779.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
10932.60†	0.000	179.565	10879.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
11032.60†	0.000	179.565	10979.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
11132.60†	0.000	179.565	11079.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
11232.60†	0.000	179.565	11179.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
11332.60†	0.000	179.565	11279.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
11432.60†	0.000	179.565	11379.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"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 P15 16H
Area	Lea County, NM	Well	SD EA 18 19 FED COM P15 16H
Field	Jennings / Upper BN SPR Shale (Lea County, NM)	Wellbore	SD EA 18 19 FED COM P15 16H PWB
Facility	SD EA 18-19 Fed P15		

WELLPATH DATA (234 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	179.565	11479.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
11632.60†	0.000	179.565	11579.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
11732.60†	0.000	179.565	11679.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
11832.60†	0.000	179.565	11779.50	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
11850.64	0.000	179.565	11797.54	-402.19	397.82	-583.42	724913.60	382858.81	32°03'01.855"N	103°36'26.652"W	0.00	0.00	0.00	
11932.60†	9.836	179.565	11879.10	-395.17	390.81	-583.37	724913.65	382851.79	32°03'01.785"N	103°36'26.652"W	12.00	12.00	219.08	
12032.60†	21.836	179.565	11975.13	-367.93	363.57	-583.16	724913.86	382824.56	32°03'01.516"N	103°36'26.652"W	12.00	12.00	0.00	
12132.60†	33.836	179.565	12063.39	-321.33	316.96	-582.81	724914.21	382777.95	32°03'01.055"N	103°36'26.652"W	12.00	12.00	0.00	
12232.60†	45.836	179.565	12140.04	-257.38	253.02	-582.33	724914.69	382714.01	32°03'00.422"N	103°36'26.651"W	12.00	12.00	0.00	
12276.00†	51.044	179.565	12168.82	-224.92	220.56	-582.08	724914.94	382681.55	32°03'00.101"N	103°36'26.651"W	12.00	12.00	0.00	330' crossing
12332.60†	57.836	179.565	12201.72	-178.90	174.54	-581.73	724915.29	382635.54	32°02'59.645"N	103°36'26.650"W	12.00	12.00	0.00	
12432.60†	69.836	179.565	12245.73	-89.32	84.96	-581.05	724915.97	382545.95	32°02'58.759"N	103°36'26.649"W	12.00	12.00	0.00	
12532.60†	81.836	179.565	12270.16	7.47	-11.82	-580.31	724916.71	382449.18	32°02'57.801"N	103°36'26.648"W	12.00	12.00	0.00	
12600.64	90.000	179.565	12275.00	75.27	-79.63	-579.80	724917.22	382381.37	32°02'57.130"N	103°36'26.648"W	12.00	12.00	0.00	
12632.60†	90.000	179.565	12275.00	107.24	-111.59	-579.56	724917.46	382349.41	32°02'56.814"N	103°36'26.647"W	0.00	0.00	0.00	
12732.60†	90.000	179.565	12275.00	207.24	-211.59	-578.80	724918.22	382249.42	32°02'55.824"N	103°36'26.646"W	0.00	0.00	0.00	
12832.60†	90.000	179.565	12275.00	307.24	-311.58	-578.04	724918.98	382149.43	32°02'54.835"N	103°36'26.645"W	0.00	0.00	0.00	
12932.60†	90.000	179.565	12275.00	407.24	-411.58	-577.28	724919.74	382049.43	32°02'53.845"N	103°36'26.644"W	0.00	0.00	0.00	
13032.60†	90.000	179.565	12275.00	507.24	-511.58	-576.52	724920.50	381949.44	32°02'52.855"N	103°36'26.643"W	0.00	0.00	0.00	
13132.60†	90.000	179.565	12275.00	607.24	-611.58	-575.76	724921.26	381849.45	32°02'51.866"N	103°36'26.642"W	0.00	0.00	0.00	
13232.60†	90.000	179.565	12275.00	707.24	-711.57	-575.00	724922.02	381749.45	32°02'50.876"N	103°36'26.641"W	0.00	0.00	0.00	
13332.60†	90.000	179.565	12275.00	807.24	-811.57	-574.24	724922.78	381649.46	32°02'49.887"N	103°36'26.640"W	0.00	0.00	0.00	
13432.60†	90.000	179.565	12275.00	907.24	-911.57	-573.48	724923.54	381549.46	32°02'48.897"N	103°36'26.639"W	0.00	0.00	0.00	
13532.60†	90.000	179.565	12275.00	1007.24	-1011.56	-572.72	724924.30	381449.47	32°02'47.908"N	103°36'26.638"W	0.00	0.00	0.00	
13632.60†	90.000	179.565	12275.00	1107.24	-1111.56	-571.97	724925.05	381349.48	32°02'46.918"N	103°36'26.637"W	0.00	0.00	0.00	
13732.60†	90.000	179.565	12275.00	1207.24	-1211.56	-571.21	724925.81	381249.48	32°02'45.928"N	103°36'26.636"W	0.00	0.00	0.00	
13832.60†	90.000	179.565	12275.00	1307.24	-1311.56	-570.45	724926.57	381149.49	32°02'44.939"N	103°36'26.635"W	0.00	0.00	0.00	
13932.60†	90.000	179.565	12275.00	1407.24	-1411.55	-569.69	724927.33	381049.50	32°02'43.949"N	103°36'26.634"W	0.00	0.00	0.00	
14032.60†	90.000	179.565	12275.00	1507.24	-1511.55	-568.93	724928.09	380949.50	32°02'42.960"N	103°36'26.633"W	0.00	0.00	0.00	
14132.60†	90.000	179.565	12275.00	1607.24	-1611.55	-568.17	724928.85	380849.51	32°02'41.970"N	103°36'26.632"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 P15 16H
Area	Lea County, NM	Well	SD EA 18 19 FED COM P15 16H
Field	Jennings / Upper BN SPR Shale (Lea County, NM)	Wellbore	SD EA 18 19 FED COM P15 16H PWB
Facility	SD EA 18-19 Fed P15		

WELLPATH DATA (234 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
14232.60†	90.000	179.565	12275.00	1707.24	-1711.54	-567.41	724929.61	380749.52	32°02'40.981"N	103°36'26.631"W	0.00	0.00	0.00	
14332.60†	90.000	179.565	12275.00	1807.24	-1811.54	-566.65	724930.37	380649.52	32°02'39.991"N	103°36'26.630"W	0.00	0.00	0.00	
14432.60†	90.000	179.565	12275.00	1907.24	-1911.54	-565.89	724931.13	380549.53	32°02'39.001"N	103°36'26.629"W	0.00	0.00	0.00	
14532.60†	90.000	179.565	12275.00	2007.24	-2011.54	-565.13	724931.89	380449.53	32°02'38.012"N	103°36'26.628"W	0.00	0.00	0.00	
14632.60†	90.000	179.565	12275.00	2107.24	-2111.53	-564.37	724932.65	380349.54	32°02'37.022"N	103°36'26.627"W	0.00	0.00	0.00	
14732.60†	90.000	179.565	12275.00	2207.24	-2211.53	-563.61	724933.41	380249.55	32°02'36.033"N	103°36'26.626"W	0.00	0.00	0.00	
14832.60†	90.000	179.565	12275.00	2307.24	-2311.53	-562.85	724934.17	380149.55	32°02'35.043"N	103°36'26.625"W	0.00	0.00	0.00	
14932.60†	90.000	179.565	12275.00	2407.24	-2411.52	-562.10	724934.92	380049.56	32°02'34.054"N	103°36'26.624"W	0.00	0.00	0.00	
15032.60†	90.000	179.565	12275.00	2507.24	-2511.52	-561.34	724935.68	379949.57	32°02'33.064"N	103°36'26.623"W	0.00	0.00	0.00	
15132.60†	90.000	179.565	12275.00	2607.24	-2611.52	-560.58	724936.44	379849.57	32°02'32.074"N	103°36'26.622"W	0.00	0.00	0.00	
15232.60†	90.000	179.565	12275.00	2707.24	-2711.52	-559.82	724937.20	379749.58	32°02'31.085"N	103°36'26.621"W	0.00	0.00	0.00	
15332.60†	90.000	179.565	12275.00	2807.24	-2811.51	-559.06	724937.96	379649.59	32°02'30.095"N	103°36'26.620"W	0.00	0.00	0.00	
15432.60†	90.000	179.565	12275.00	2907.24	-2911.51	-558.30	724938.72	379549.59	32°02'29.106"N	103°36'26.619"W	0.00	0.00	0.00	
15532.60†	90.000	179.565	12275.00	3007.24	-3011.51	-557.54	724939.48	379449.60	32°02'28.116"N	103°36'26.618"W	0.00	0.00	0.00	
15632.60†	90.000	179.565	12275.00	3107.24	-3111.50	-556.78	724940.24	379349.60	32°02'27.126"N	103°36'26.617"W	0.00	0.00	0.00	
15732.60†	90.000	179.565	12275.00	3207.24	-3211.50	-556.02	724941.00	379249.61	32°02'26.137"N	103°36'26.616"W	0.00	0.00	0.00	
15832.60†	90.000	179.565	12275.00	3307.24	-3311.50	-555.26	724941.76	379149.62	32°02'25.147"N	103°36'26.615"W	0.00	0.00	0.00	
15932.60†	90.000	179.565	12275.00	3407.24	-3411.50	-554.50	724942.52	379049.62	32°02'24.158"N	103°36'26.614"W	0.00	0.00	0.00	
16032.60†	90.000	179.565	12275.00	3507.24	-3511.49	-553.74	724943.28	378949.63	32°02'23.168"N	103°36'26.613"W	0.00	0.00	0.00	
16132.60†	90.000	179.565	12275.00	3607.24	-3611.49	-552.98	724944.03	378849.64	32°02'22.179"N	103°36'26.612"W	0.00	0.00	0.00	
16232.60†	90.000	179.565	12275.00	3707.24	-3711.49	-552.23	724944.79	378749.64	32°02'21.189"N	103°36'26.611"W	0.00	0.00	0.00	
16332.60†	90.000	179.565	12275.00	3807.24	-3811.48	-551.47	724945.55	378649.65	32°02'20.199"N	103°36'26.610"W	0.00	0.00	0.00	
16432.60†	90.000	179.565	12275.00	3907.24	-3911.48	-550.71	724946.31	378549.65	32°02'19.210"N	103°36'26.609"W	0.00	0.00	0.00	
16532.60†	90.000	179.565	12275.00	4007.24	-4011.48	-549.95	724947.07	378449.66	32°02'18.220"N	103°36'26.608"W	0.00	0.00	0.00	
16632.60†	90.000	179.565	12275.00	4107.24	-4111.47	-549.19	724947.83	378349.67	32°02'17.231"N	103°36'26.607"W	0.00	0.00	0.00	
16732.60†	90.000	179.565	12275.00	4207.24	-4211.47	-548.43	724948.59	378249.67	32°02'16.241"N	103°36'26.606"W	0.00	0.00	0.00	
16832.60†	90.000	179.565	12275.00	4307.24	-4311.47	-547.67	724949.35	378149.68	32°02'15.252"N	103°36'26.605"W	0.00	0.00	0.00	
16932.60†	90.000	179.565	12275.00	4407.24	-4411.47	-546.91	724950.11	378049.69	32°02'14.262"N	103°36'26.604"W	0.00	0.00	0.00	
17032.60†	90.000	179.565	12275.00	4507.24	-4511.46	-546.15	724950.87	377949.69	32°02'13.272"N	103°36'26.603"W	0.00	0.00	0.00	
17132.60†	90.000	179.565	12275.00	4607.24	-4611.46	-545.39	724951.63	377849.70	32°02'12.283"N	103°36'26.602"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 P15 16H
Area	Lea County, NM	Well	SD EA 18 19 FED COM P15 16H
Field	Jennings / Upper BN SPR Shale (Lea County, NM)	Wellbore	SD EA 18 19 FED COM P15 16H PWB
Facility	SD EA 18-19 Fed P15		

WELLPATH DATA (234 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
17232.60†	90.000	179.565	12275.00	4707.24	-4711.46	-544.63	724952.39	377749.71	32°02'11.293"N	103°36'26.601"W	0.00	0.00	0.00	
17332.60†	90.000	179.565	12275.00	4807.24	-4811.45	-543.87	724953.14	377649.71	32°02'10.304"N	103°36'26.600"W	0.00	0.00	0.00	
17432.60†	90.000	179.565	12275.00	4907.24	-4911.45	-543.11	724953.90	377549.72	32°02'09.314"N	103°36'26.599"W	0.00	0.00	0.00	
17532.60†	90.000	179.565	12275.00	5007.24	-5011.45	-542.36	724954.66	377449.72	32°02'08.325"N	103°36'26.598"W	0.00	0.00	0.00	
17632.60†	90.000	179.565	12275.00	5107.24	-5111.45	-541.60	724955.42	377349.73	32°02'07.335"N	103°36'26.597"W	0.00	0.00	0.00	
17732.60†	90.000	179.565	12275.00	5207.24	-5211.44	-540.84	724956.18	377249.74	32°02'06.345"N	103°36'26.596"W	0.00	0.00	0.00	
17832.60†	90.000	179.565	12275.00	5307.24	-5311.44	-540.08	724956.94	377149.74	32°02'05.356"N	103°36'26.595"W	0.00	0.00	0.00	
17932.60†	90.000	179.565	12275.00	5407.24	-5411.44	-539.32	724957.70	377049.75	32°02'04.366"N	103°36'26.594"W	0.00	0.00	0.00	
18032.60†	90.000	179.565	12275.00	5507.24	-5511.43	-538.56	724958.46	376949.76	32°02'03.377"N	103°36'26.593"W	0.00	0.00	0.00	
18132.60†	90.000	179.565	12275.00	5607.24	-5611.43	-537.80	724959.22	376849.76	32°02'02.387"N	103°36'26.592"W	0.00	0.00	0.00	
18232.60†	90.000	179.565	12275.00	5707.24	-5711.43	-537.04	724959.98	376749.77	32°02'01.398"N	103°36'26.591"W	0.00	0.00	0.00	
18332.60†	90.000	179.565	12275.00	5807.24	-5811.43	-536.28	724960.74	376649.78	32°02'00.408"N	103°36'26.590"W	0.00	0.00	0.00	
18432.60†	90.000	179.565	12275.00	5907.24	-5911.42	-535.52	724961.50	376549.78	32°01'59.418"N	103°36'26.589"W	0.00	0.00	0.00	
18532.60†	90.000	179.565	12275.00	6007.24	-6011.42	-534.76	724962.25	376449.79	32°01'58.429"N	103°36'26.588"W	0.00	0.00	0.00	
18632.60†	90.000	179.565	12275.00	6107.24	-6111.42	-534.00	724963.01	376349.79	32°01'57.439"N	103°36'26.587"W	0.00	0.00	0.00	
18732.60†	90.000	179.565	12275.00	6207.24	-6211.41	-533.25	724963.77	376249.80	32°01'56.450"N	103°36'26.586"W	0.00	0.00	0.00	
18832.60†	90.000	179.565	12275.00	6307.24	-6311.41	-532.49	724964.53	376149.81	32°01'55.460"N	103°36'26.585"W	0.00	0.00	0.00	
18932.60†	90.000	179.565	12275.00	6407.24	-6411.41	-531.73	724965.29	376049.81	32°01'54.470"N	103°36'26.584"W	0.00	0.00	0.00	
19032.60†	90.000	179.565	12275.00	6507.24	-6511.41	-530.97	724966.05	375949.82	32°01'53.481"N	103°36'26.583"W	0.00	0.00	0.00	
19132.60†	90.000	179.565	12275.00	6607.24	-6611.40	-530.21	724966.81	375849.83	32°01'52.491"N	103°36'26.582"W	0.00	0.00	0.00	
19232.60†	90.000	179.565	12275.00	6707.24	-6711.40	-529.45	724967.57	375749.83	32°01'51.502"N	103°36'26.580"W	0.00	0.00	0.00	
19332.60†	90.000	179.565	12275.00	6807.24	-6811.40	-528.69	724968.33	375649.84	32°01'50.512"N	103°36'26.579"W	0.00	0.00	0.00	
19432.60†	90.000	179.565	12275.00	6907.24	-6911.39	-527.93	724969.09	375549.85	32°01'49.523"N	103°36'26.578"W	0.00	0.00	0.00	
19532.60†	90.000	179.565	12275.00	7007.24	-7011.39	-527.17	724969.85	375449.85	32°01'48.533"N	103°36'26.577"W	0.00	0.00	0.00	
19632.60†	90.000	179.565	12275.00	7107.24	-7111.39	-526.41	724970.61	375349.86	32°01'47.543"N	103°36'26.576"W	0.00	0.00	0.00	
19732.60†	90.000	179.565	12275.00	7207.24	-7211.39	-525.65	724971.37	375249.86	32°01'46.554"N	103°36'26.575"W	0.00	0.00	0.00	
19832.60†	90.000	179.565	12275.00	7307.24	-7311.38	-524.89	724972.12	375149.87	32°01'45.564"N	103°36'26.574"W	0.00	0.00	0.00	
19932.60†	90.000	179.565	12275.00	7407.24	-7411.38	-524.13	724972.88	375049.88	32°01'44.575"N	103°36'26.573"W	0.00	0.00	0.00	
20032.60†	90.000	179.565	12275.00	7507.24	-7511.38	-523.38	724973.64	374949.88	32°01'43.585"N	103°36'26.572"W	0.00	0.00	0.00	
20132.60†	90.000	179.565	12275.00	7607.24	-7611.37	-522.62	724974.40	374849.89	32°01'42.596"N	103°36'26.571"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 P15 16H
Area	Lea County, NM	Well	SD EA 18 19 FED COM P15 16H
Field	Jennings / Upper BN SPR Shale (Lea County, NM)	Wellbore	SD EA 18 19 FED COM P15 16H PWB
Facility	SD EA 18-19 Fed P15		

WELLPATH DATA (234 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
20232.60†	90.000	179.565	12275.00	7707.24	-7711.37	-521.86	724975.16	374749.90	32°01'41.606"N	103°36'26.570"W	0.00	0.00	0.00	
20332.60†	90.000	179.565	12275.00	7807.24	-7811.37	-521.10	724975.92	374649.90	32°01'40.616"N	103°36'26.569"W	0.00	0.00	0.00	
20432.60†	90.000	179.565	12275.00	7907.24	-7911.37	-520.34	724976.68	374549.91	32°01'39.627"N	103°36'26.568"W	0.00	0.00	0.00	
20532.60†	90.000	179.565	12275.00	8007.24	-8011.36	-519.58	724977.44	374449.92	32°01'38.637"N	103°36'26.567"W	0.00	0.00	0.00	
20632.60†	90.000	179.565	12275.00	8107.24	-8111.36	-518.82	724978.20	374349.92	32°01'37.648"N	103°36'26.566"W	0.00	0.00	0.00	
20732.60†	90.000	179.565	12275.00	8207.24	-8211.36	-518.06	724978.96	374249.93	32°01'36.658"N	103°36'26.565"W	0.00	0.00	0.00	
20832.60†	90.000	179.565	12275.00	8307.24	-8311.35	-517.30	724979.72	374149.93	32°01'35.669"N	103°36'26.564"W	0.00	0.00	0.00	
20932.60†	90.000	179.565	12275.00	8407.24	-8411.35	-516.54	724980.48	374049.94	32°01'34.679"N	103°36'26.563"W	0.00	0.00	0.00	
21032.60†	90.000	179.565	12275.00	8507.24	-8511.35	-515.78	724981.23	373949.95	32°01'33.689"N	103°36'26.562"W	0.00	0.00	0.00	
21132.60†	90.000	179.565	12275.00	8607.24	-8611.35	-515.02	724981.99	373849.95	32°01'32.700"N	103°36'26.561"W	0.00	0.00	0.00	
21232.60†	90.000	179.565	12275.00	8707.24	-8711.34	-514.26	724982.75	373749.96	32°01'31.710"N	103°36'26.560"W	0.00	0.00	0.00	
21332.60†	90.000	179.565	12275.00	8807.24	-8811.34	-513.51	724983.51	373649.97	32°01'30.721"N	103°36'26.559"W	0.00	0.00	0.00	
21432.60†	90.000	179.565	12275.00	8907.24	-8911.34	-512.75	724984.27	373549.97	32°01'29.731"N	103°36'26.558"W	0.00	0.00	0.00	
21532.60†	90.000	179.565	12275.00	9007.24	-9011.33	-511.99	724985.03	373449.98	32°01'28.741"N	103°36'26.557"W	0.00	0.00	0.00	
21632.60†	90.000	179.565	12275.00	9107.24	-9111.33	-511.23	724985.79	373349.98	32°01'27.752"N	103°36'26.556"W	0.00	0.00	0.00	
21732.60†	90.000	179.565	12275.00	9207.24	-9211.33	-510.47	724986.55	373249.99	32°01'26.762"N	103°36'26.555"W	0.00	0.00	0.00	
21832.60†	90.000	179.565	12275.00	9307.24	-9311.33	-509.71	724987.31	373150.00	32°01'25.773"N	103°36'26.554"W	0.00	0.00	0.00	
21932.60†	90.000	179.565	12275.00	9407.24	-9411.32	-508.95	724988.07	373050.00	32°01'24.783"N	103°36'26.553"W	0.00	0.00	0.00	
22032.60†	90.000	179.565	12275.00	9507.24	-9511.32	-508.19	724988.83	372950.01	32°01'23.794"N	103°36'26.552"W	0.00	0.00	0.00	
22132.60†	90.000	179.565	12275.00	9607.24	-9611.32	-507.43	724989.59	372850.02	32°01'22.804"N	103°36'26.551"W	0.00	0.00	0.00	
22232.60†	90.000	179.565	12275.00	9707.24	-9711.31	-506.67	724990.34	372750.02	32°01'21.814"N	103°36'26.550"W	0.00	0.00	0.00	
22332.60†	90.000	179.565	12275.00	9807.24	-9811.31	-505.91	724991.10	372650.03	32°01'20.825"N	103°36'26.549"W	0.00	0.00	0.00	
22432.60†	90.000	179.565	12275.00	9907.24	-9911.31	-505.15	724991.86	372550.04	32°01'19.835"N	103°36'26.548"W	0.00	0.00	0.00	
22450.64	90.000	179.565	12275.00†	9925.27	-9929.34	-505.02	724992.00	372532.00	32°01'19.657"N	103°36'26.548"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 P15 16H
Area	Lea County, NM	Well	SD EA 18 19 FED COM P15 16H
Field	Jennings / Upper BN SPR Shale (Lea County, NM)	Wellbore	SD EA 18 19 FED COM P15 16H PWB
Facility	SD EA 18-19 Fed P15		

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 P15 PBHL rev 1	22450.64	12275.00	-9929.34	-505.02	724992.00	372532.00	32°01'19.657"N	103°36'26.548"W	point

SURVEY PROGRAM - Ref Wellbore: SD EA 18 19 FED COM P15 16H PWB Ref Wellpath: SD EA 18 19 FED COM P15 16H Rev A.0

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
32.60	22727.99	BHI NaviTrak (Standard)		SD EA 18 19 FED COM P15 16H PWB