



Actual Wellpath Report

SD WE 23 Federal P25 No. 1H awp 263' - 19171' Proj: 19196'

Page 1 of 11



REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD WE 23 Fed P25 No. 1H
Area	Lea County, NM	Well	SD WE 23 Federal P25 No. 1H
Field	Jennings / Upper BN SPR Shale (Lea County, NM)	Wellbore	SD WE 23 Fed P25 No. 1H AWB
Facility	SD WE 23 Fed P25		

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	0.999961	Report Generated	4/13/2017 at 1:12:21 PM
Convergence at slot	0.36° East	Database/Source file	WA_Midland/SD_WE_23_Federal_P25_No_1H_awp_263_-_19171_Proj_19196_.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	713232.00	372222.00	32°01'17.350"N	103°38'43.163"W
Facility Reference Pt			713232.00	372222.00	32°01'17.350"N	103°38'43.163"W
Field Reference Pt			152400.30	0.00	30°59'42.846"N	105°26'33.659"W

WELLPATH DATUM

Calculation method	Minimum curvature	Nabors X-30 (KB) to Facility Vertical Datum	3153.60ft
Horizontal Reference Pt	Slot	Nabors X-30 (KB) to Mean Sea Level	3153.60ft
Vertical Reference Pt	Nabors X-30 (KB)	Nabors X-30 (KB) to Ground Level at Slot (SD WE 23 Fed P25 No. 1H)	32.60ft
MD Reference Pt	Nabors X-30 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	359.73°

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

MWD COORDINATOR



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Page 2 of 11



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Area	Lea County, NM	Well	SD WE 23 Federal P25 No. 1H
Field	Jennings / Upper BN SPR Shale (Lea County, NM)	Wellbore	SD WE 23 Fed P25 No. 1H AWB
Facility	SD WE 23 Fed P25		

WELLPATH DATA (220 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	240.800	0.00	0.00	0.00	0.00	713232.00	372222.00	32°01'17.350"N	103°38'43.163"W	0.00	
32.60	0.000	240.800	32.60	0.00	0.00	0.00	713232.00	372222.00	32°01'17.350"N	103°38'43.163"W	0.00	
263.00	1.100	240.800	262.99	-1.07	-1.08	-1.93	713230.07	372220.92	32°01'17.340"N	103°38'43.186"W	0.48	
354.00	0.800	242.800	353.97	-1.78	-1.80	-3.26	713228.74	372220.20	32°01'17.333"N	103°38'43.201"W	0.33	
448.00	0.700	261.800	447.97	-2.16	-2.18	-4.41	713227.59	372219.82	32°01'17.329"N	103°38'43.215"W	0.28	
539.00	0.800	258.800	538.96	-2.35	-2.38	-5.58	713226.42	372219.62	32°01'17.327"N	103°38'43.228"W	0.12	
630.00	0.800	265.800	629.95	-2.52	-2.55	-6.84	713225.16	372219.45	32°01'17.326"N	103°38'43.243"W	0.11	
725.00	0.800	287.800	724.94	-2.36	-2.40	-8.13	713223.87	372219.60	32°01'17.327"N	103°38'43.258"W	0.32	
799.00	1.110	280.340	798.93	-2.07	-2.11	-9.33	713222.67	372219.89	32°01'17.330"N	103°38'43.272"W	0.45	
890.00	1.360	270.950	889.91	-1.88	-1.93	-11.28	713220.72	372220.07	32°01'17.332"N	103°38'43.295"W	0.35	
981.00	1.360	274.250	980.88	-1.77	-1.84	-13.43	713218.57	372220.16	32°01'17.333"N	103°38'43.320"W	0.09	
1072.00	2.370	263.490	1071.83	-1.89	-1.97	-16.38	713215.62	372220.03	32°01'17.332"N	103°38'43.354"W	1.17	
1160.00	2.920	264.790	1159.74	-2.28	-2.38	-20.42	713211.58	372219.62	32°01'17.328"N	103°38'43.401"W	0.63	
1248.00	2.710	268.820	1247.63	-2.51	-2.62	-24.73	713207.27	372219.38	32°01'17.326"N	103°38'43.451"W	0.33	
1337.00	3.700	260.040	1336.49	-3.02	-3.16	-29.66	713202.34	372218.84	32°01'17.321"N	103°38'43.508"W	1.24	
1425.00	5.510	254.830	1424.21	-4.59	-4.76	-36.54	713195.46	372217.24	32°01'17.306"N	103°38'43.588"W	2.11	
1514.00	6.110	254.750	1512.75	-6.91	-7.13	-45.23	713186.77	372214.87	32°01'17.283"N	103°38'43.689"W	0.67	
1602.00	6.040	254.100	1600.25	-9.37	-9.63	-54.20	713177.80	372212.37	32°01'17.259"N	103°38'43.794"W	0.11	
1691.00	7.060	252.390	1688.67	-12.26	-12.56	-63.92	713168.08	372209.44	32°01'17.230"N	103°38'43.907"W	1.17	
1779.00	8.300	252.590	1775.88	-15.75	-16.10	-75.14	713156.87	372205.90	32°01'17.196"N	103°38'44.037"W	1.41	
1868.00	9.350	253.710	1863.83	-19.63	-20.05	-88.21	713143.80	372201.95	32°01'17.158"N	103°38'44.189"W	1.20	
1956.00	10.010	254.520	1950.57	-23.61	-24.10	-102.44	713129.57	372197.90	32°01'17.119"N	103°38'44.355"W	0.77	
2044.00	10.140	254.540	2037.22	-27.65	-28.20	-117.27	713114.73	372193.80	32°01'17.079"N	103°38'44.528"W	0.15	
2133.00	10.430	254.360	2124.79	-31.84	-32.46	-132.58	713099.42	372189.54	32°01'17.038"N	103°38'44.706"W	0.33	
2221.00	10.480	255.270	2211.32	-35.95	-36.65	-147.99	713084.01	372185.36	32°01'16.997"N	103°38'44.885"W	0.20	
2310.00	10.490	256.020	2298.84	-39.89	-40.66	-163.68	713068.32	372181.34	32°01'16.958"N	103°38'45.068"W	0.15	
2398.00	10.510	256.960	2385.37	-43.56	-44.41	-179.28	713052.73	372177.59	32°01'16.922"N	103°38'45.249"W	0.20	
2487.00	10.740	258.120	2472.84	-47.02	-47.95	-195.30	713036.71	372174.06	32°01'16.888"N	103°38'45.435"W	0.35	
2575.00	11.160	257.870	2559.24	-50.43	-51.42	-211.65	713020.36	372170.58	32°01'16.855"N	103°38'45.625"W	0.48	
2664.00	11.250	257.710	2646.54	-54.00	-55.08	-228.55	713003.46	372166.92	32°01'16.820"N	103°38'45.822"W	0.11	



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Page 3 of 11



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Field	Jennings / Upper BN SPR Shale (Lea County, NM)	Wellbore	SD WE 23 Fed P25 No. 1H AWB
Facility	SD WE 23 Fed P25		

WELLPATH DATA (220 stations)												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
2752.00	11.350	257.760	2732.83	-57.59	-58.74	-245.40	712986.61	372163.26	32°01'16.785"N	103°38'46.018"W	0.11	
2841.00	10.970	258.460	2820.15	-61.06	-62.29	-262.26	712969.75	372159.71	32°01'16.751"N	103°38'46.214"W	0.45	
2929.00	10.850	258.870	2906.56	-64.25	-65.57	-278.59	712953.42	372156.43	32°01'16.719"N	103°38'46.404"W	0.16	
3018.00	10.680	259.300	2993.99	-67.33	-68.72	-294.91	712937.10	372153.29	32°01'16.689"N	103°38'46.594"W	0.21	
3106.00	10.150	260.520	3080.54	-70.04	-71.51	-310.57	712921.44	372150.50	32°01'16.662"N	103°38'46.776"W	0.65	
3196.00	9.490	261.970	3169.23	-72.31	-73.85	-325.74	712906.27	372148.15	32°01'16.640"N	103°38'46.952"W	0.78	
3284.00	8.400	261.560	3256.15	-74.21	-75.81	-339.28	712892.73	372146.20	32°01'16.622"N	103°38'47.110"W	1.24	
3373.00	8.470	265.600	3344.19	-75.60	-77.26	-352.25	712879.77	372144.74	32°01'16.608"N	103°38'47.260"W	0.67	
3462.00	9.550	265.310	3432.09	-76.64	-78.37	-366.14	712865.87	372143.63	32°01'16.598"N	103°38'47.422"W	1.21	
3550.00	9.140	265.160	3518.92	-77.76	-79.56	-380.38	712851.63	372142.45	32°01'16.587"N	103°38'47.587"W	0.47	
3638.00	8.540	265.740	3605.88	-78.78	-80.63	-393.86	712838.15	372141.37	32°01'16.577"N	103°38'47.744"W	0.69	
3727.00	8.900	259.300	3693.85	-80.48	-82.40	-407.22	712824.80	372139.60	32°01'16.561"N	103°38'47.899"W	1.17	
3815.00	9.230	256.200	3780.75	-83.37	-85.35	-420.76	712811.26	372136.65	32°01'16.532"N	103°38'48.057"W	0.67	
3904.00	8.060	256.510	3868.74	-86.46	-88.51	-433.76	712798.26	372133.50	32°01'16.502"N	103°38'48.208"W	1.32	
3992.00	7.760	255.210	3955.90	-89.36	-91.46	-445.50	712786.52	372130.54	32°01'16.473"N	103°38'48.344"W	0.40	
4081.00	9.840	255.910	4043.85	-92.69	-94.85	-458.69	712773.33	372127.16	32°01'16.441"N	103°38'48.498"W	2.34	
4169.00	10.230	254.810	4130.50	-96.49	-98.73	-473.52	712758.49	372123.28	32°01'16.403"N	103°38'48.670"W	0.49	
4258.00	9.570	249.660	4218.18	-101.07	-103.37	-488.09	712743.93	372118.64	32°01'16.358"N	103°38'48.840"W	1.24	
4346.00	8.950	245.610	4305.03	-106.38	-108.74	-501.18	712730.84	372113.27	32°01'16.306"N	103°38'48.992"W	1.02	
4434.00	9.370	248.450	4391.91	-111.77	-114.20	-514.08	712717.94	372107.81	32°01'16.253"N	103°38'49.143"W	0.70	
4523.00	9.800	251.460	4479.67	-116.78	-119.27	-528.00	712704.02	372102.74	32°01'16.204"N	103°38'49.305"W	0.74	
4605.00	9.610	251.150	4560.50	-121.15	-123.70	-541.09	712690.93	372098.31	32°01'16.160"N	103°38'49.457"W	0.24	
4693.00	10.810	257.100	4647.10	-125.29	-127.91	-556.09	712675.93	372094.09	32°01'16.120"N	103°38'49.632"W	1.81	
4782.00	11.590	259.640	4734.41	-128.68	-131.38	-573.02	712659.00	372090.62	32°01'16.086"N	103°38'49.828"W	1.04	
4870.00	11.790	260.560	4820.58	-131.66	-134.45	-590.58	712641.44	372087.56	32°01'16.057"N	103°38'50.033"W	0.31	
4959.00	10.680	261.580	4907.88	-134.28	-137.15	-607.71	712624.31	372084.86	32°01'16.032"N	103°38'50.232"W	1.27	
5047.00	10.090	262.080	4994.44	-136.46	-139.40	-623.41	712608.61	372082.60	32°01'16.010"N	103°38'50.414"W	0.68	
5136.00	9.680	261.100	5082.11	-138.62	-141.63	-638.53	712593.50	372080.37	32°01'15.989"N	103°38'50.590"W	0.50	
5224.00	9.400	261.550	5168.90	-140.76	-143.84	-652.95	712579.08	372078.17	32°01'15.968"N	103°38'50.758"W	0.33	
5313.00	9.410	262.610	5256.70	-142.69	-145.84	-667.35	712564.68	372076.17	32°01'15.949"N	103°38'50.925"W	0.19	



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Page 4 of 11



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Area	Lea County, NM	Well	SD WE 23 Federal P25 No. 1H
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Facility	SD WE 23 Fed P25		

WELLPATH DATA (220 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
5401.00	9.420	263.810	5343.51	-144.33	-147.54	-681.64	712550.38	372074.46	32°01'15.933"N	103°38'51.091"W	0.22	
5490.00	9.110	263.240	5431.35	-145.87	-149.16	-695.88	712536.15	372072.85	32°01'15.918"N	103°38'51.257"W	0.36	
5578.00	8.600	263.350	5518.30	-147.39	-150.74	-709.34	712522.69	372071.27	32°01'15.903"N	103°38'51.413"W	0.58	
5667.00	8.050	262.000	5606.37	-148.97	-152.38	-722.12	712509.91	372069.63	32°01'15.888"N	103°38'51.562"W	0.66	
5755.00	7.810	262.210	5693.52	-150.58	-154.04	-734.14	712497.89	372067.96	32°01'15.872"N	103°38'51.701"W	0.27	
5844.00	7.210	260.870	5781.76	-152.23	-155.75	-745.65	712486.38	372066.26	32°01'15.856"N	103°38'51.835"W	0.70	
5932.00	6.000	254.750	5869.18	-154.27	-157.84	-755.54	712476.49	372064.17	32°01'15.836"N	103°38'51.950"W	1.59	
6020.00	5.540	252.830	5956.73	-156.70	-160.30	-764.03	712468.00	372061.71	32°01'15.812"N	103°38'52.049"W	0.57	
6109.00	3.780	260.000	6045.43	-158.44	-162.08	-771.03	712461.00	372059.93	32°01'15.795"N	103°38'52.130"W	2.08	
6197.00	3.030	268.410	6133.28	-158.99	-162.65	-776.21	712455.82	372059.36	32°01'15.790"N	103°38'52.191"W	1.02	
6287.00	2.810	266.960	6223.16	-159.15	-162.83	-780.79	712451.24	372059.18	32°01'15.788"N	103°38'52.244"W	0.26	
6375.00	2.630	267.190	6311.06	-159.34	-163.04	-784.96	712447.07	372058.96	32°01'15.786"N	103°38'52.292"W	0.20	
6464.00	1.790	255.190	6400.00	-159.78	-163.50	-788.34	712443.69	372058.51	32°01'15.782"N	103°38'52.332"W	1.07	
6552.00	1.240	248.930	6487.96	-160.46	-164.19	-790.56	712441.47	372057.82	32°01'15.775"N	103°38'52.357"W	0.65	
6729.00	0.970	244.230	6664.93	-161.79	-165.53	-793.70	712438.33	372056.48	32°01'15.762"N	103°38'52.394"W	0.16	
6906.00	0.730	251.300	6841.91	-162.79	-166.54	-796.11	712435.92	372055.46	32°01'15.753"N	103°38'52.422"W	0.15	
7083.00	0.530	243.790	7018.90	-163.50	-167.27	-797.92	712434.12	372054.74	32°01'15.745"N	103°38'52.443"W	0.12	
7260.00	0.190	277.930	7195.90	-163.82	-167.59	-798.94	712433.09	372054.42	32°01'15.742"N	103°38'52.455"W	0.22	
7437.00	0.040	166.280	7372.90	-163.84	-167.61	-799.22	712432.81	372054.40	32°01'15.742"N	103°38'52.458"W	0.12	
7615.00	0.440	174.700	7550.90	-164.58	-168.35	-799.14	712432.89	372053.66	32°01'15.735"N	103°38'52.457"W	0.22	
7792.00	0.250	166.140	7727.89	-165.63	-169.40	-798.99	712433.05	372052.61	32°01'15.724"N	103°38'52.456"W	0.11	
7969.00	0.310	156.870	7904.89	-166.45	-170.22	-798.70	712433.33	372051.79	32°01'15.716"N	103°38'52.453"W	0.04	
8146.00	0.570	183.570	8081.88	-167.77	-171.53	-798.57	712433.46	372050.47	32°01'15.703"N	103°38'52.451"W	0.18	
8323.00	0.520	209.180	8258.88	-169.35	-173.11	-799.02	712433.01	372048.89	32°01'15.688"N	103°38'52.456"W	0.14	
8391.00	0.630	212.430	8326.87	-169.93	-173.70	-799.37	712432.66	372048.31	32°01'15.682"N	103°38'52.460"W	0.17	
8445.00	0.200	236.200	8380.87	-170.23	-174.00	-799.61	712432.43	372048.01	32°01'15.679"N	103°38'52.463"W	0.84	
8489.00	4.480	351.330	8424.83	-168.57	-172.35	-799.93	712432.10	372049.66	32°01'15.695"N	103°38'52.467"W	10.38	
8533.00	12.230	354.240	8468.33	-162.22	-166.00	-800.66	712431.38	372056.01	32°01'15.758"N	103°38'52.475"W	17.63	
8577.00	19.480	357.230	8510.63	-150.24	-154.02	-801.48	712430.55	372067.99	32°01'15.877"N	103°38'52.484"W	16.58	
8621.00	24.770	358.480	8551.37	-133.68	-137.46	-802.08	712429.95	372084.54	32°01'16.041"N	103°38'52.489"W	12.07	



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Page 5 of 11



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Facility	SD WE 23 Fed P25		

WELLPATH DATA (220 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8665.00	27.230	357.170	8590.92	-114.41	-118.19	-802.82	712429.21	372103.81	32°01'16.231"N	103°38'52.497"W	5.74	
8710.00	29.360	356.980	8630.54	-93.10	-96.89	-803.91	712428.12	372125.11	32°01'16.442"N	103°38'52.508"W	4.74	
8754.00	33.130	359.980	8668.15	-70.29	-74.09	-804.48	712427.55	372147.92	32°01'16.668"N	103°38'52.513"W	9.27	
8798.00	38.410	2.220	8703.84	-44.60	-48.39	-803.96	712428.07	372173.62	32°01'16.922"N	103°38'52.505"W	12.36	
8842.00	41.920	1.320	8737.46	-16.24	-20.02	-803.09	712428.94	372201.98	32°01'17.203"N	103°38'52.492"W	8.09	
8845.00†	42.114	1.400	8739.69	-14.23	-18.02	-803.04	712428.99	372203.98	32°01'17.223"N	103°38'52.492"W	6.70	8 1/2 BHI MWD 4605' - 8445'
8886.00	44.770	2.430	8769.46	13.94	10.16	-802.09	712429.94	372232.16	32°01'17.501"N	103°38'52.479"W	6.70	
8931.00	46.900	1.590	8800.81	46.19	42.41	-800.97	712431.07	372264.41	32°01'17.821"N	103°38'52.463"W	4.92	
8975.00	51.170	358.320	8829.65	79.40	75.62	-801.02	712431.01	372297.62	32°01'18.149"N	103°38'52.461"W	11.21	
9019.00	56.480	356.460	8855.61	114.87	111.09	-802.66	712429.37	372333.08	32°01'18.500"N	103°38'52.478"W	12.54	
9064.00	58.880	356.970	8879.67	152.84	149.05	-804.84	712427.20	372371.04	32°01'18.876"N	103°38'52.500"W	5.42	
9108.00	61.240	358.250	8901.63	190.94	187.14	-806.42	712425.61	372409.13	32°01'19.253"N	103°38'52.516"W	5.93	
9152.00	66.170	359.890	8921.12	230.37	226.57	-807.05	712424.98	372448.56	32°01'19.643"N	103°38'52.520"W	11.69	
9196.00	70.940	0.500	8937.20	271.31	267.51	-806.91	712425.13	372489.50	32°01'20.048"N	103°38'52.516"W	10.92	
9240.00	71.650	359.930	8951.31	312.99	309.19	-806.75	712425.28	372531.17	32°01'20.461"N	103°38'52.511"W	2.03	
9285.00	73.660	358.680	8964.73	355.93	352.13	-807.27	712424.76	372574.12	32°01'20.886"N	103°38'52.514"W	5.19	
9329.00	76.570	358.990	8976.03	398.45	394.64	-808.14	712423.90	372616.63	32°01'21.307"N	103°38'52.520"W	6.65	
9374.00	80.270	0.170	8985.06	442.52	438.72	-808.46	712423.58	372660.70	32°01'21.743"N	103°38'52.521"W	8.61	
9469.00	84.080	4.220	8998.00	536.51	532.73	-804.84	712427.19	372754.71	32°01'22.673"N	103°38'52.472"W	5.82	
9568.00	88.120	8.100	9004.73	634.62	630.89	-794.24	712437.80	372852.86	32°01'23.643"N	103°38'52.342"W	5.65	
9656.00	90.650	7.950	9005.68	721.69	718.01	-781.95	712450.08	372939.98	32°01'24.505"N	103°38'52.193"W	2.88	
9745.00	93.670	7.050	9002.32	809.80	806.18	-770.35	712461.69	373028.14	32°01'25.377"N	103°38'52.051"W	3.54	
9833.00	98.940	3.560	8992.66	896.81	893.23	-762.25	712469.78	373115.19	32°01'26.237"N	103°38'51.951"W	7.17	
9921.00	99.720	356.270	8978.37	983.58	980.00	-762.37	712469.66	373201.96	32°01'27.096"N	103°38'51.946"W	8.22	8 1/2 BHI MWD 8489' - 9921'
10011.00	92.900	354.470	8968.49	1072.72	1069.10	-769.60	712462.43	373291.06	32°01'27.978"N	103°38'52.023"W	7.83	
10100.00	87.070	356.400	8968.51	1161.43	1157.78	-776.68	712455.35	373379.73	32°01'28.856"N	103°38'52.099"W	6.90	
10188.00	87.350	0.000	8972.79	1249.28	1245.62	-779.44	712452.59	373467.57	32°01'29.726"N	103°38'52.124"W	4.10	
10277.00	87.350	0.160	8976.91	1338.18	1334.52	-779.31	712452.72	373556.47	32°01'30.605"N	103°38'52.116"W	0.18	
10365.00	85.680	355.470	8982.26	1425.94	1422.27	-782.66	712449.37	373644.21	32°01'31.474"N	103°38'52.149"W	5.65	
10453.00	87.350	358.800	8987.61	1513.67	1509.98	-787.05	712444.99	373731.92	32°01'32.342"N	103°38'52.193"W	4.23	



Actual Wellpath Report

SD WE 23 Federal P25 No. 1H awp 263' - 19171' Proj: 19196'

Page 6 of 11



REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD WE 23 Fed P25 No. 1H
Area	Lea County, NM	Well	SD WE 23 Federal P25 No. 1H
Field	Jennings / Upper BN SPR Shale (Lea County, NM)	Wellbore	SD WE 23 Fed P25 No. 1H AWB
Facility	SD WE 23 Fed P25		

WELLPATH DATA (220 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
10542.00	87.410	1.030	8991.68	1602.57	1598.88	-787.18	712444.86	373820.82	32°01'33.222"N	103°38'52.188"W	2.50	
10631.00	87.380	0.750	8995.72	1691.46	1687.78	-785.80	712446.24	373909.71	32°01'34.101"N	103°38'52.166"W	0.32	
10720.00	87.470	0.950	8999.72	1780.36	1776.68	-784.48	712447.56	373998.61	32°01'34.981"N	103°38'52.144"W	0.25	
10808.00	87.200	359.150	9003.82	1868.26	1864.58	-784.40	712447.63	374086.50	32°01'35.851"N	103°38'52.136"W	2.07	
10896.00	87.500	357.570	9007.88	1956.13	1952.45	-786.92	712445.12	374174.37	32°01'36.721"N	103°38'52.159"W	1.83	
10985.00	86.700	354.940	9012.39	2044.85	2041.13	-792.72	712439.31	374263.05	32°01'37.599"N	103°38'52.220"W	3.09	
11073.00	89.010	357.680	9015.68	2132.61	2128.88	-798.38	712433.66	374350.79	32°01'38.467"N	103°38'52.279"W	4.07	
11162.00	89.820	357.030	9016.59	2221.53	2217.78	-802.48	712429.55	374439.68	32°01'39.347"N	103°38'52.320"W	1.17	
11251.00	89.540	358.280	9017.09	2310.47	2306.70	-806.13	712425.91	374528.60	32°01'40.227"N	103°38'52.356"W	1.44	
11339.00	90.090	1.520	9017.37	2398.46	2394.69	-806.28	712425.75	374616.59	32°01'41.098"N	103°38'52.352"W	3.73	
11428.00	90.000	2.280	9017.30	2487.39	2483.64	-803.33	712428.70	374705.53	32°01'41.978"N	103°38'52.311"W	0.86	
11516.00	89.850	3.220	9017.42	2575.27	2571.53	-799.11	712432.93	374793.43	32°01'42.848"N	103°38'52.255"W	1.08	
11605.00	89.850	2.580	9017.65	2664.13	2660.42	-794.60	712437.43	374882.31	32°01'43.727"N	103°38'52.196"W	0.72	
11694.00	90.030	1.690	9017.74	2753.05	2749.36	-791.29	712440.74	374971.24	32°01'44.607"N	103°38'52.151"W	1.02	
11782.00	89.970	0.320	9017.74	2841.03	2837.34	-789.74	712442.29	375059.22	32°01'45.477"N	103°38'52.127"W	1.56	
11873.00	89.970	358.200	9017.79	2932.02	2928.33	-790.92	712441.11	375150.21	32°01'46.378"N	103°38'52.134"W	2.33	
11964.00	91.570	1.160	9016.57	3023.00	3019.30	-791.43	712440.60	375241.18	32°01'47.278"N	103°38'52.133"W	3.70	
12055.00	89.600	2.160	9015.64	3113.94	3110.26	-788.79	712443.24	375332.13	32°01'48.178"N	103°38'52.096"W	2.43	
12146.00	89.170	358.730	9016.62	3204.91	3201.23	-788.09	712443.95	375423.10	32°01'49.078"N	103°38'52.081"W	3.80	
12237.00	89.780	356.610	9017.45	3295.84	3292.15	-791.79	712440.25	375514.01	32°01'49.978"N	103°38'52.117"W	2.42	
12328.00	89.880	355.700	9017.72	3386.67	3382.94	-797.89	712434.15	375604.81	32°01'50.877"N	103°38'52.181"W	1.01	
12419.00	90.030	359.120	9017.79	3477.58	3473.84	-802.00	712430.03	375695.69	32°01'51.777"N	103°38'52.222"W	3.76	
12511.00	87.600	0.210	9019.69	3569.55	3565.81	-802.54	712429.50	375787.66	32°01'52.687"N	103°38'52.222"W	2.89	8 1/2 BHI MWD 10011' - 12511'
12602.00	89.780	359.070	9021.77	3660.52	3656.77	-803.11	712428.92	375878.63	32°01'53.587"N	103°38'52.222"W	2.70	
12691.00	89.880	357.380	9022.04	3749.48	3745.73	-805.87	712426.17	375967.58	32°01'54.467"N	103°38'52.247"W	1.90	
12780.00	89.630	357.750	9022.42	3838.42	3834.65	-809.65	712422.39	376056.49	32°01'55.347"N	103°38'52.284"W	0.50	
12869.00	90.430	357.330	9022.37	3927.35	3923.56	-813.47	712418.57	376145.40	32°01'56.228"N	103°38'52.322"W	1.02	
12958.00	90.220	358.330	9021.87	4016.30	4012.50	-816.84	712415.20	376234.33	32°01'57.108"N	103°38'52.355"W	1.15	
13046.00	90.310	357.530	9021.46	4104.26	4100.44	-820.02	712412.02	376322.27	32°01'57.978"N	103°38'52.385"W	0.91	
13134.00	89.260	357.150	9021.79	4192.18	4188.34	-824.10	712407.93	376410.17	32°01'58.848"N	103°38'52.426"W	1.27	



Actual Wellpath Report

SD WE 23 Federal P25 No. 1H awp 263' - 19171' Proj: 19196'

Page 7 of 11



REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD WE 23 Fed P25 No. 1H
Area	Lea County, NM	Well	SD WE 23 Federal P25 No. 1H
Field	Jennings / Upper BN SPR Shale (Lea County, NM)	Wellbore	SD WE 23 Fed P25 No. 1H AWB
Facility	SD WE 23 Fed P25		

WELLPATH DATA (220 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
13223.00	90.310	359.810	9022.12	4281.15	4277.30	-826.46	712405.57	376499.13	32°01'59.729"N	103°38'52.447"W	3.21	
13311.00	90.830	5.320	9021.25	4369.00	4365.17	-822.52	712409.51	376587.00	32°02'00.598"N	103°38'52.395"W	6.29	
13400.00	90.590	3.620	9020.15	4457.69	4453.89	-815.59	712416.45	376675.71	32°02'01.476"N	103°38'52.308"W	1.93	
13488.00	91.050	359.390	9018.89	4545.62	4541.83	-813.28	712418.76	376763.65	32°02'02.346"N	103°38'52.275"W	4.83	
13577.00	90.250	355.740	9017.88	4634.53	4630.73	-817.06	712414.98	376852.54	32°02'03.226"N	103°38'52.312"W	4.20	
13665.00	86.670	355.870	9020.24	4722.28	4718.45	-823.49	712408.54	376940.26	32°02'04.094"N	103°38'52.380"W	4.07	
13755.00	90.280	0.510	9022.64	4812.17	4808.33	-826.33	712405.70	377030.14	32°02'04.984"N	103°38'52.406"W	6.53	
13843.00	90.460	2.170	9022.07	4900.13	4896.30	-824.27	712407.76	377118.10	32°02'05.854"N	103°38'52.376"W	1.90	
13932.00	89.910	359.130	9021.78	4989.11	4985.29	-823.26	712408.77	377207.08	32°02'06.735"N	103°38'52.358"W	3.47	
14020.00	90.280	357.550	9021.63	5077.08	5073.25	-825.81	712406.22	377295.04	32°02'07.605"N	103°38'52.381"W	1.84	
14108.00	90.310	357.570	9021.18	5165.02	5161.17	-829.56	712402.48	377382.96	32°02'08.475"N	103°38'52.418"W	0.04	
14197.00	91.290	0.670	9019.94	5253.99	5250.14	-830.92	712401.11	377471.92	32°02'09.356"N	103°38'52.427"W	3.65	
14285.00	90.430	1.780	9018.62	5341.95	5338.10	-829.04	712402.99	377559.89	32°02'10.226"N	103°38'52.399"W	1.60	
14374.00	89.450	359.550	9018.71	5430.93	5427.09	-828.01	712404.02	377648.87	32°02'11.107"N	103°38'52.380"W	2.74	
14462.00	89.970	1.730	9019.16	5518.91	5515.08	-827.03	712405.01	377736.85	32°02'11.977"N	103°38'52.362"W	2.55	
14550.00	90.620	4.350	9018.70	5606.76	5602.95	-822.36	712409.67	377824.72	32°02'12.847"N	103°38'52.302"W	3.07	
14639.00	90.280	3.700	9018.00	5695.50	5691.72	-816.11	712415.92	377913.49	32°02'13.725"N	103°38'52.223"W	0.82	
14728.00	89.820	3.680	9017.93	5784.29	5780.54	-810.39	712421.65	378002.30	32°02'14.603"N	103°38'52.150"W	0.52	
14816.00	90.250	1.910	9017.87	5872.16	5868.43	-806.10	712425.94	378090.19	32°02'15.473"N	103°38'52.093"W	2.07	
14905.00	88.430	359.670	9018.90	5961.13	5957.41	-804.87	712427.17	378179.16	32°02'16.353"N	103°38'52.072"W	3.24	
14994.00	90.650	357.170	9019.61	6050.09	6046.36	-807.32	712424.71	378268.11	32°02'17.233"N	103°38'52.094"W	3.76	
15082.00	82.270	356.130	9025.04	6137.72	6133.96	-812.45	712419.59	378355.71	32°02'18.101"N	103°38'52.147"W	9.60	8 1/2 BHI MWD 12602' - 15082'
15171.00	85.440	358.830	9034.57	6226.12	6222.34	-816.33	712415.70	378444.09	32°02'18.975"N	103°38'52.186"W	4.67	
15260.00	93.450	2.160	9035.43	6315.02	6311.25	-815.56	712416.47	378532.99	32°02'19.855"N	103°38'52.171"W	9.75	
15348.00	93.820	1.600	9029.85	6402.78	6399.03	-812.68	712419.35	378620.76	32°02'20.724"N	103°38'52.131"W	0.76	
15436.00	93.050	1.660	9024.58	6490.58	6486.83	-810.18	712421.85	378708.57	32°02'21.592"N	103°38'52.095"W	0.88	
15525.00	91.140	1.060	9021.33	6579.48	6575.74	-808.07	712423.96	378797.47	32°02'22.472"N	103°38'52.064"W	2.25	
15614.00	91.020	357.650	9019.65	6668.45	6664.71	-809.07	712422.96	378886.44	32°02'23.352"N	103°38'52.069"W	3.83	
15702.00	91.910	355.810	9017.40	6756.29	6752.53	-814.09	712417.94	378974.25	32°02'24.222"N	103°38'52.121"W	2.32	
15791.00	90.120	357.990	9015.82	6845.16	6841.38	-818.90	712413.13	379063.10	32°02'25.101"N	103°38'52.170"W	3.17	



Actual Wellpath Report

SD WE 23 Federal P25 No. 1H awp 263' - 19171' Proj: 19196'

Page 8 of 11



REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD WE 23 Fed P25 No. 1H
Area	Lea County, NM	Well	SD WE 23 Federal P25 No. 1H
Field	Jennings / Upper BN SPR Shale (Lea County, NM)	Wellbore	SD WE 23 Fed P25 No. 1H AWB
Facility	SD WE 23 Fed P25		

WELLPATH DATA (220 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
15879.00	91.660	1.600	9014.45	6933.13	6929.35	-819.21	712412.82	379151.07	32°02'25.972"N	103°38'52.167"W	4.46	
15967.00	89.850	0.990	9013.29	7021.09	7017.31	-817.23	712414.81	379239.03	32°02'26.842"N	103°38'52.138"W	2.17	
16056.00	90.000	358.070	9013.41	7110.08	7106.30	-817.96	712414.08	379328.01	32°02'27.723"N	103°38'52.140"W	3.29	
16145.00	89.910	357.500	9013.48	7199.03	7195.24	-821.40	712410.64	379416.94	32°02'28.603"N	103°38'52.173"W	0.65	
16233.00	87.900	358.180	9015.16	7286.96	7283.15	-824.71	712407.32	379504.85	32°02'29.473"N	103°38'52.205"W	2.41	
16322.00	85.560	357.760	9020.24	7375.76	7371.94	-827.86	712404.17	379593.64	32°02'30.352"N	103°38'52.235"W	2.67	
16410.00	85.710	356.030	9026.94	7463.40	7459.56	-832.61	712399.42	379681.25	32°02'31.219"N	103°38'52.284"W	1.97	
16499.00	87.690	357.940	9032.06	7552.14	7548.28	-837.28	712394.75	379769.97	32°02'32.098"N	103°38'52.332"W	3.09	
16587.00	84.390	0.880	9038.14	7639.91	7636.04	-838.19	712393.84	379857.73	32°02'32.966"N	103°38'52.336"W	5.02	
16676.00	88.060	1.950	9044.00	7728.66	7724.80	-836.00	712396.04	379946.49	32°02'33.844"N	103°38'52.304"W	4.29	
16765.00	87.780	357.870	9047.23	7817.58	7813.73	-836.14	712395.90	380035.41	32°02'34.724"N	103°38'52.299"W	4.59	
16853.00	89.880	358.940	9049.03	7905.53	7901.67	-838.59	712393.45	380123.35	32°02'35.595"N	103°38'52.321"W	2.68	
16942.00	88.830	3.830	9050.03	7994.46	7990.61	-836.44	712395.60	380212.28	32°02'36.475"N	103°38'52.289"W	5.62	
17030.00	93.640	5.020	9048.13	8082.12	8078.30	-829.65	712402.38	380299.97	32°02'37.342"N	103°38'52.204"W	5.63	
17119.00	90.770	1.410	9044.71	8170.86	8167.07	-824.67	712407.37	380388.74	32°02'38.220"N	103°38'52.140"W	5.18	
17207.00	86.460	357.150	9046.83	8258.79	8255.00	-825.77	712406.27	380476.66	32°02'39.090"N	103°38'52.146"W	6.88	
17296.00	91.730	356.610	9048.24	8347.64	8343.82	-830.61	712401.42	380565.48	32°02'39.970"N	103°38'52.196"W	5.95	
17384.00	93.880	1.080	9043.93	8435.50	8431.67	-832.38	712399.65	380653.33	32°02'40.839"N	103°38'52.210"W	5.63	8 1/2 BHI MWD 15171' - 17384'
17473.00	92.620	3.950	9038.88	8524.24	8520.43	-828.48	712403.55	380742.08	32°02'41.717"N	103°38'52.158"W	3.52	
17561.00	89.940	2.040	9036.92	8612.06	8608.28	-823.89	712408.14	380829.92	32°02'42.586"N	103°38'52.098"W	3.74	
17649.00	90.120	359.080	9036.87	8700.04	8696.26	-823.03	712409.00	380917.91	32°02'43.457"N	103°38'52.081"W	3.37	
17738.00	89.350	359.980	9037.28	8789.04	8785.26	-823.76	712408.27	381006.90	32°02'44.337"N	103°38'52.083"W	1.33	
17826.00	91.200	4.050	9036.86	8876.95	8873.18	-820.67	712411.37	381094.82	32°02'45.207"N	103°38'52.041"W	5.08	
17915.00	95.520	7.060	9031.65	8965.30	8961.58	-812.07	712419.96	381183.21	32°02'46.081"N	103°38'51.935"W	5.91	
18003.00	92.840	2.180	9025.23	9052.72	9049.02	-805.01	712427.02	381270.65	32°02'46.946"N	103°38'51.846"W	6.31	
18092.00	87.690	354.650	9024.82	9141.60	9137.89	-807.47	712424.56	381359.52	32°02'47.826"N	103°38'51.868"W	10.25	8 1/2 BHI MWD 17473' - 18092'
18167.00	89.850	353.150	9026.43	9216.19	9212.45	-815.44	712416.59	381434.07	32°02'48.564"N	103°38'51.955"W	3.51	
18256.00	89.630	358.040	9026.83	9304.93	9301.16	-822.28	712409.76	381522.78	32°02'49.442"N	103°38'52.028"W	5.50	
18344.00	90.280	0.050	9026.90	9392.92	9389.14	-823.74	712408.29	381610.76	32°02'50.313"N	103°38'52.039"W	2.40	
18433.00	90.430	359.990	9026.35	9481.91	9478.14	-823.71	712408.32	381699.75	32°02'51.194"N	103°38'52.032"W	0.18	



Actual Wellpath Report

SD WE 23 Federal P25 No. 1H awp 263' - 19171' Proj: 19196'
Page 9 of 11



REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD WE 23 Fed P25 No. 1H
Area	Lea County, NM	Well	SD WE 23 Federal P25 No. 1H
Field	Jennings / Upper BN SPR Shale (Lea County, NM)	Wellbore	SD WE 23 Fed P25 No. 1H AWB
Facility	SD WE 23 Fed P25		

WELLPATH DATA (220 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
18521.00	89.690	359.060	9026.26	9569.91	9566.13	-824.44	712407.59	381787.74	32°02'52.065"N	103°38'52.034"W	1.35	
18609.00	91.420	358.160	9025.40	9657.89	9654.10	-826.58	712405.46	381875.70	32°02'52.935"N	103°38'52.052"W	2.22	
18698.00	89.880	358.310	9024.39	9746.85	9743.05	-829.32	712402.72	381964.65	32°02'53.816"N	103°38'52.077"W	1.74	
18786.00	89.880	359.540	9024.58	9834.84	9831.03	-830.97	712401.07	382052.63	32°02'54.686"N	103°38'52.090"W	1.40	
18875.00	89.630	359.190	9024.96	9923.83	9920.02	-831.95	712400.08	382141.62	32°02'55.567"N	103°38'52.095"W	0.48	
18963.00	89.970	357.870	9025.27	10011.81	10007.99	-834.21	712397.82	382229.58	32°02'56.438"N	103°38'52.115"W	1.55	
19052.00	89.940	358.250	9025.33	10100.77	10096.94	-837.22	712394.81	382318.53	32°02'57.318"N	103°38'52.143"W	0.43	
19140.00	89.910	358.460	9025.45	10188.75	10184.90	-839.75	712392.28	382406.49	32°02'58.189"N	103°38'52.166"W	0.24	
19171.00	90.000	358.800	9025.47	10219.74	10215.90	-840.49	712391.54	382437.48	32°02'58.495"N	103°38'52.172"W	1.13	8 1/2 BHI MWD 18167' - 19171'
19196.00	90.000	358.800	9025.47	10244.74	10240.89	-841.01	712391.02	382462.47	32°02'58.743"N	103°38'52.176"W	0.00	Projection to TD: 19196'

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SD WE 23 Fed P25 6800' from LP	8996.00	7207.04	-822.69	712409.34	379428.75	32°02'28.720"N	103°38'52.187"W	point
SD WE 23 Fed P25 7700' from LP	9050.00	8107.03	-826.93	712405.10	380328.70	32°02'37.626"N	103°38'52.170"W	point
SD WE 23 Fed P25 No. 1H BHL rev 2	9050.00	10253.42	-837.03	712395.00	382475.00	32°02'58.867"N	103°38'52.129"W	point



Actual Wellpath Report

SD WE 23 Federal P25 No. 1H awp 263' - 19171' Proj: 19196'

Page 10 of 11



REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD WE 23 Fed P25 No. 1H
Area	Lea County, NM	Well	SD WE 23 Federal P25 No. 1H
Field	Jennings / Upper BN SPR Shale (Lea County, NM)	Wellbore	SD WE 23 Fed P25 No. 1H AWB
Facility	SD WE 23 Fed P25		

WELLPATH COMPOSITION - Ref Wellbore: SD WE 23 Fed P25 No. 1H AWB Ref Wellpath: SD WE 23 Federal P25 No. 1H awp 263' - 19171' Proj: 19196'				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
32.60	725.00	ISCWSA MWD, Rev. 4 (Standard)	Imported surveys from 263' - 725'	SD WE 23 Fed P25 No. 1H AWB
725.00	4523.00	BHI NaviTrak (Standard)	12 1/4 BHI MWD 799' - 4523'	SD WE 23 Fed P25 No. 1H AWB
4523.00	8445.00	BHI NaviTrak (Standard)	8 1/2 BHI MWD 4605' - 8445'	SD WE 23 Fed P25 No. 1H AWB
8445.00	9921.00	BHI NaviTrak (Standard)	8 1/2 BHI MWD 8489' - 9921'	SD WE 23 Fed P25 No. 1H AWB
9921.00	12511.00	BHI NaviTrak (Standard)	8 1/2 BHI MWD 10011' - 12511'	SD WE 23 Fed P25 No. 1H AWB
12511.00	15082.00	BHI NaviTrak (Standard)	8 1/2 BHI MWD 12602' - 15082'	SD WE 23 Fed P25 No. 1H AWB
15082.00	17384.00	BHI NaviTrak (Standard)	8 1/2 BHI MWD 15171' - 17384'	SD WE 23 Fed P25 No. 1H AWB
17384.00	18092.00	BHI NaviTrak (Standard)	8 1/2 BHI MWD 17473' - 18092'	SD WE 23 Fed P25 No. 1H AWB
18092.00	19171.00	BHI NaviTrak (Standard)	8 1/2 BHI MWD 18167' - 19171'	SD WE 23 Fed P25 No. 1H AWB
19171.00	19196.00	Blind Drilling (std)	Projection to bit	SD WE 23 Fed P25 No. 1H AWB



Actual Wellpath Report

SD WE 23 Federal P25 No. 1H awp 263' - 19171' Proj: 19196'

Page 11 of 11



REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD WE 23 Fed P25 No. 1H
Area	Lea County, NM	Well	SD WE 23 Federal P25 No. 1H
Field	Jennings / Upper BN SPR Shale (Lea County, NM)	Wellbore	SD WE 23 Fed P25 No. 1H AWB
Facility	SD WE 23 Fed P25		

COMMENTS

Wellpath general comments

Well: SD WE 23 Federal P25 No. 1H
Field: Jennings / Upper BN SPRN, Shale
Rig: X30
Location: Lea Co., NM
API: 30-025-43460-00
Latitude: 32° 01' 17.350" N
Longitude: 103° 38' 43.163" W
DF Elevation: 3153.60 feet
Elev. GL: 3121.00 feet
Proposed Direction: 359.73°
PBHL: 19196 feet
Duration: 01/26/2017-04/08/2017
FSE's: D. Hardeman
SO#: 8369337
8 1/2 BHI MWD 4605' - 8445'
8 1/2 BHI MWD 8489' - 9921'
8 1/2 BHI MWD 10011' - 12511'
8 1/2 BHI MWD 12602' - 15082'
8 1/2 BHI MWD 15171' - 17384'
8 1/2 BHI MWD 17473' - 18092'
8 1/2 BHI MWD 18167' - 19171'
Projection to TD: 19196'