

30-025-43613



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FEB 08 2018
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Actual Wellpath Report

SD WE 15 Federal P12 No. 1H awp 173.5' - 13883' Proj: 13947'

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directional survey

REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD WE 15 Fed P12 No. 1H
Area	Lea County, NM	Well	SD WE 15 Federal P12 No. 1H
Field	Jennings / Upper BN SPRN Shale (Lea County, NM)	Wellbore	SD WE 15 Fed P12 No. 1H (AWB)
Facility	SD WE 15 Fed P12		

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 5.1
North Reference	Grid	User	Tranlam
Scale	0.999958	Report Generated	8/11/2017 at 11:55:34 AM
Convergence at slot	0.35° East	Database/Source file	WA_Midland/SD_WE_15_Federal_P12_No_1H_awp_173.5_-13883_Proj_13947_.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	706651.00	377314.00	32°02'08.149"N	103°39'59.237"W
Facility Reference Pt			706651.00	377314.00	32°02'08.149"N	103°39'59.237"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	3181.60ft
Horizontal Reference Pt	Slot	Rig: Nabors X30 (KB) to Mean Sea Level	3181.60ft
Vertical Reference Pt	Rig: Nabors X30 (KB)	Rig: Nabors X30 (KB) to Ground Level at Slot (SD WE 15 Fed P12 No. 1H)	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	359.83°

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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Field	Jennings / Upper BN SPRN Shale (Lea County, NM)	Wellbore	SD WE 15 Fed P12 No. 1H (AWB)
Facility	SD WE 15 Fed P12		

WELLPATH DATA (115 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	164.000	0.00	0.00	0.00	0.00	706651.00	377314.00	32°02'08.149"N	103°39'59.237"W	0.00	
32.60	0.000	164.000	32.60	0.00	0.00	0.00	706651.00	377314.00	32°02'08.149"N	103°39'59.237"W	0.00	
173.50	0.500	164.000	173.50	-0.59	-0.59	0.17	706651.17	377313.41	32°02'08.143"N	103°39'59.235"W	0.35	
271.50	0.500	168.000	271.49	-1.42	-1.42	0.38	706651.38	377312.58	32°02'08.135"N	103°39'59.232"W	0.04	
353.50	0.400	186.000	353.49	-2.06	-2.05	0.42	706651.42	377311.95	32°02'08.129"N	103°39'59.232"W	0.21	
451.50	0.700	183.000	451.49	-2.99	-2.99	0.35	706651.35	377311.01	32°02'08.120"N	103°39'59.233"W	0.31	
541.50	0.700	168.000	541.48	-4.08	-4.08	0.44	706651.44	377309.92	32°02'08.109"N	103°39'59.232"W	0.20	
667.50	0.700	164.000	667.47	-5.57	-5.57	0.81	706651.81	377308.43	32°02'08.094"N	103°39'59.228"W	0.04	
709.00	0.410	168.430	708.97	-5.96	-5.96	0.91	706651.91	377308.04	32°02'08.090"N	103°39'59.227"W	0.71	
882.00	0.180	135.520	881.97	-6.81	-6.81	1.24	706652.24	377307.19	32°02'08.082"N	103°39'59.223"W	0.15	
1069.00	3.200	279.080	1068.88	-6.22	-6.23	-3.44	706647.56	377307.77	32°02'08.088"N	103°39'59.277"W	1.89	
1247.00	7.330	273.710	1246.09	-4.65	-4.71	-19.69	706631.32	377309.29	32°02'08.104"N	103°39'59.466"W	2.33	
1424.00	10.330	277.840	1420.97	-1.67	-1.81	-46.68	706604.32	377312.19	32°02'08.134"N	103°39'59.779"W	1.73	
1600.00	11.980	278.690	1593.64	3.34	3.10	-80.37	706570.63	377317.10	32°02'08.185"N	103°40'00.170"W	0.94	
1778.00	14.020	279.750	1767.07	9.90	9.54	-119.89	706531.12	377323.54	32°02'08.251"N	103°40'00.629"W	1.15	
1954.00	15.380	274.830	1937.31	15.61	15.12	-164.16	706486.85	377329.12	32°02'08.309"N	103°40'01.143"W	1.05	
2131.00	17.450	270.380	2107.10	17.91	17.27	-214.09	706436.92	377331.27	32°02'08.333"N	103°40'01.722"W	1.37	
2308.00	15.410	271.320	2276.86	18.77	17.99	-264.15	706386.86	377331.99	32°02'08.343"N	103°40'02.304"W	1.16	
2485.00	14.460	271.390	2447.88	19.99	19.07	-309.75	706341.26	377333.07	32°02'08.357"N	103°40'02.833"W	0.54	
2662.00	13.220	270.460	2619.74	20.81	19.77	-352.08	706298.93	377333.77	32°02'08.366"N	103°40'03.325"W	0.71	
2839.00	11.070	273.720	2792.77	22.19	21.03	-389.28	706261.73	377335.03	32°02'08.381"N	103°40'03.757"W	1.27	
3016.00	11.730	276.040	2966.28	25.29	24.03	-424.13	706226.89	377338.03	32°02'08.413"N	103°40'04.162"W	0.45	
3193.00	11.550	279.590	3139.64	30.24	28.87	-459.50	706191.52	377342.87	32°02'08.463"N	103°40'04.572"W	0.42	
3370.00	11.610	285.230	3313.04	37.97	36.50	-494.16	706156.87	377350.50	32°02'08.541"N	103°40'04.974"W	0.64	
3546.00	11.880	282.040	3485.36	46.51	44.94	-528.96	706122.06	377358.93	32°02'08.626"N	103°40'05.378"W	0.40	
3724.00	11.890	276.890	3659.55	52.63	50.96	-565.09	706085.94	377364.96	32°02'08.688"N	103°40'05.797"W	0.60	
3901.00	10.950	268.920	3833.05	54.61	52.83	-600.00	706051.03	377366.83	32°02'08.709"N	103°40'06.203"W	1.04	
4078.00	10.640	268.860	4006.92	54.06	52.19	-633.14	706017.88	377366.18	32°02'08.704"N	103°40'06.588"W	0.18	
4256.00	10.350	260.550	4181.95	51.21	49.23	-665.35	705985.68	377363.23	32°02'08.677"N	103°40'06.962"W	0.87	
4433.00	10.860	259.050	4355.93	45.53	43.46	-897.40	705953.63	377357.45	32°02'08.622"N	103°40'07.335"W	0.33	12 1/4 BHI MWD 173.5' - 4433'



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Field	Jennings / Upper BN SPRN Shale (Lea County, NM)	Wellbore	SD WE 15 Fed P12 No. 1H (AWB)
Facility	SD WE 15 Fed P12		

WELLPATH DATA (115 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
4611.00	10.840	258.800	4530.75	39.19	37.02	-730.29	705920.75	377351.02	32°02'08.560"N	103°40'07.717"W	0.03	
4788.00	10.320	257.610	4704.74	32.65	30.39	-762.10	705888.94	377344.38	32°02'08.496"N	103°40'08.087"W	0.32	
4965.00	10.090	264.650	4878.94	27.89	25.54	-793.02	705858.01	377339.54	32°02'08.450"N	103°40'08.447"W	0.72	
5142.00	9.520	265.270	5053.36	25.33	22.88	-823.05	705827.99	377336.88	32°02'08.426"N	103°40'08.796"W	0.33	
5319.00	9.460	265.000	5227.93	22.94	20.41	-852.12	705798.91	377334.41	32°02'08.403"N	103°40'09.134"W	0.04	
5496.00	9.220	265.560	5402.59	20.66	18.04	-880.75	705770.29	377332.04	32°02'08.382"N	103°40'09.466"W	0.14	
5672.00	9.100	265.740	5576.34	18.62	15.92	-908.69	705742.35	377329.92	32°02'08.362"N	103°40'09.791"W	0.07	
5849.00	8.700	266.190	5751.21	16.77	13.99	-936.00	705715.04	377327.99	32°02'08.345"N	103°40'10.109"W	0.23	
6026.00	8.990	259.750	5926.11	13.50	10.64	-962.97	705688.07	377324.64	32°02'08.313"N	103°40'10.422"W	0.58	
6204.00	6.250	269.430	6102.53	10.99	8.07	-986.35	705664.69	377322.07	32°02'08.289"N	103°40'10.694"W	1.69	
6381.00	5.580	267.850	6278.59	10.63	7.65	-1004.58	705646.46	377321.65	32°02'08.286"N	103°40'10.906"W	0.39	
6557.00	5.080	263.320	6453.83	9.45	6.42	-1020.87	705630.17	377320.42	32°02'08.275"N	103°40'11.095"W	0.37	
6734.00	4.660	259.960	6630.19	7.33	4.26	-1035.74	705615.31	377318.26	32°02'08.255"N	103°40'11.268"W	0.29	
6911.00	4.570	259.440	6806.61	4.83	1.71	-1049.75	705601.30	377315.71	32°02'08.230"N	103°40'11.431"W	0.06	
7088.00	4.130	252.900	6983.10	1.70	-1.46	-1062.77	705588.27	377312.54	32°02'08.200"N	103°40'11.582"W	0.37	
7265.00	2.430	225.320	7159.82	-2.79	-5.97	-1071.53	705579.51	377308.03	32°02'08.156"N	103°40'11.684"W	1.28	
7442.00	0.780	196.860	7336.74	-6.57	-9.76	-1074.55	705576.50	377304.24	32°02'08.118"N	103°40'11.720"W	1.01	
7619.00	0.790	171.850	7513.73	-8.93	-12.12	-1074.73	705576.32	377301.88	32°02'08.095"N	103°40'11.722"W	0.19	3/4 BH MWD 4611' - 7619'
7796.00	0.830	177.210	7690.71	-11.42	-14.61	-1074.49	705576.55	377299.39	32°02'08.070"N	103°40'11.719"W	0.05	
7973.00	0.710	184.790	7867.69	-13.79	-16.98	-1074.52	705578.52	377297.02	32°02'08.047"N	103°40'11.720"W	0.09	
8150.00	0.750	178.550	8044.68	-16.05	-19.23	-1074.58	705576.46	377294.77	32°02'08.024"N	103°40'11.721"W	0.05	
8308.00	0.830	205.950	8202.67	-18.11	-21.30	-1075.06	705575.99	377292.70	32°02'08.004"N	103°40'11.726"W	0.24	
8485.00	0.750	226.890	8379.65	-20.05	-23.24	-1076.47	705574.58	377290.76	32°02'07.985"N	103°40'11.743"W	0.17	
8574.00	9.300	356.140	8468.28	-13.25	-16.45	-1077.38	705573.67	377297.55	32°02'08.052"N	103°40'11.753"W	11.00	
8662.00	19.000	357.300	8553.50	8.21	5.01	-1078.53	705572.51	377319.01	32°02'08.265"N	103°40'11.765"W	11.03	
8751.00	28.760	0.220	8634.79	44.18	40.98	-1079.14	705571.91	377354.98	32°02'08.621"N	103°40'11.769"W	11.04	
8840.00	35.660	1.130	8710.05	91.58	88.38	-1078.54	705572.51	377402.38	32°02'09.090"N	103°40'11.759"W	7.77	
8929.00	45.130	359.140	8777.76	149.19	145.99	-1078.50	705572.54	377459.98	32°02'09.660"N	103°40'11.754"W	10.74	
9017.00	54.890	0.010	8834.24	216.53	213.33	-1078.97	705572.08	377527.32	32°02'10.326"N	103°40'11.755"W	11.12	
9105.00	60.280	0.640	8881.40	290.78	287.59	-1078.53	705572.52	377601.57	32°02'11.061"N	103°40'11.745"W	6.15	



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WELLPATH DATA (115 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
9194.00	66.060	0.810	8921.55	370.16	366.96	-1077.52	705573.52	377680.95	32°02'11.846"N	103°40'11.727"W	6.50	
9282.00	73.180	0.630	8952.18	452.59	449.40	-1076.49	705574.56	377763.38	32°02'12.662"N	103°40'11.709"W	8.09	
9371.00	79.490	1.320	8973.19	539.01	535.82	-1075.01	705576.03	377849.80	32°02'13.517"N	103°40'11.686"W	7.13	
9459.00	88.550	1.980	8982.35	626.39	623.21	-1072.49	705578.55	377937.19	32°02'14.382"N	103°40'11.651"W	10.32	
9548.00	89.660	1.440	8983.74	715.33	712.16	-1069.84	705581.21	378026.13	32°02'15.262"N	103°40'11.613"W	1.39	
9637.00	89.410	1.380	8984.46	804.30	801.13	-1067.65	705583.40	378115.10	32°02'16.142"N	103°40'11.582"W	0.29	
9725.00	89.320	1.530	8985.44	892.25	889.10	-1065.41	705585.63	378203.06	32°02'17.012"N	103°40'11.549"W	0.20	
9814.00	87.040	0.770	8988.26	981.18	978.03	-1063.63	705587.42	378291.98	32°02'17.892"N	103°40'11.522"W	2.70	
9902.00	90.340	2.110	8990.27	1069.11	1065.96	-1061.42	705589.63	378379.92	32°02'18.762"N	103°40'11.490"W	4.05	
9991.00	88.490	1.880	8991.18	1158.04	1154.90	-1058.32	705592.73	378468.85	32°02'19.642"N	103°40'11.448"W	2.09	
10079.00	91.760	2.780	8990.99	1245.94	1242.81	-1054.74	705596.31	378556.76	32°02'20.512"N	103°40'11.400"W	3.85	
10168.00	92.650	3.670	8987.57	1334.71	1331.61	-1049.74	705601.31	378645.55	32°02'21.390"N	103°40'11.336"W	1.41	
10257.00	92.090	3.250	8983.89	1423.46	1420.37	-1044.37	705606.67	378734.30	32°02'22.268"N	103°40'11.267"W	0.79	
10345.00	92.590	0.800	8980.29	1511.31	1508.23	-1041.26	705609.78	378822.17	32°02'23.138"N	103°40'11.225"W	2.84	
10434.00	92.620	359.430	8976.25	1600.22	1597.14	-1041.09	705609.96	378911.07	32°02'24.017"N	103°40'11.216"W	1.54	
10522.00	94.870	0.180	8970.50	1688.03	1684.94	-1041.39	705609.66	378998.87	32°02'24.886"N	103°40'11.213"W	2.69	
10611.00	96.270	0.320	8961.86	1776.60	1773.52	-1041.00	705610.05	379087.44	32°02'25.763"N	103°40'11.203"W	1.58	
10700.00	94.690	359.630	8953.36	1865.19	1862.11	-1041.04	705610.01	379176.03	32°02'26.639"N	103°40'11.197"W	1.94	
10789.00	91.570	358.400	8948.50	1954.04	1950.95	-1042.57	705608.48	379264.87	32°02'27.519"N	103°40'11.208"W	3.77	
10878.00	92.000	359.000	8945.73	2042.97	2039.88	-1044.59	705608.46	379353.79	32°02'28.399"N	103°40'11.225"W	0.83	
10966.00	89.810	358.810	8944.34	2130.95	2127.85	-1046.27	705604.78	379441.76	32°02'29.269"N	103°40'11.239"W	2.50	
11055.00	87.010	358.950	8946.81	2219.89	2216.79	-1048.01	705603.04	379530.69	32°02'30.150"N	103°40'11.252"W	3.15	
11143.00	88.180	359.630	8950.50	2307.81	2304.71	-1049.10	705601.95	379618.60	32°02'31.020"N	103°40'11.259"W	1.54	
11232.00	88.740	359.410	8952.90	2396.77	2393.67	-1049.84	705601.21	379707.56	32°02'31.900"N	103°40'11.261"W	0.68	3/4 BH MWD 7796' - 11232'
11320.00	88.060	359.040	8955.35	2484.73	2481.63	-1051.03	705600.02	379795.52	32°02'32.770"N	103°40'11.269"W	0.88	
11409.00	88.030	359.310	8958.39	2573.68	2570.57	-1052.31	705598.74	379884.45	32°02'33.651"N	103°40'11.277"W	0.31	
11498.00	87.010	359.840	8962.24	2662.59	2659.48	-1052.97	705598.08	379973.36	32°02'34.531"N	103°40'11.278"W	1.29	
11586.00	88.400	359.250	8965.76	2750.52	2747.40	-1053.67	705597.38	380061.28	32°02'35.401"N	103°40'11.280"W	1.72	
11674.00	87.530	359.160	8968.89	2838.46	2835.34	-1054.89	705596.16	380149.21	32°02'36.271"N	103°40'11.288"W	0.99	
11763.00	90.250	359.080	8970.61	2927.42	2924.30	-1056.26	705594.79	380238.17	32°02'37.151"N	103°40'11.298"W	3.06	



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SD WE 15 Federal P12 No. 1H awp 173.5' - 13883' Proj: 13947'
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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD WE 15 Fed P12 No. 1H
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Field	Jennings / Upper BN SPRN Shale (Lea County, NM)	Wellbore	SD WE 15 Fed P12 No. 1H (AWB)
Facility	SD WE 15 Fed P12		

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11851.00	90.740	359.210	8969.85	3015.41	3012.29	-1057.57	705593.48	380326.16	32°02'38.022"N	103°40'11.307"W	0.58	
11940.00	91.510	359.440	8968.10	3104.39	3101.26	-1058.62	705592.43	380415.13	32°02'38.903"N	103°40'11.313"W	0.90	
12028.00	90.030	0.080	8966.92	3192.38	3189.25	-1058.99	705592.06	380503.11	32°02'39.773"N	103°40'11.311"W	1.83	
12116.00	90.000	0.010	8966.90	3280.38	3277.25	-1058.92	705592.13	380591.11	32°02'40.644"N	103°40'11.303"W	0.09	
12205.00	89.850	0.740	8967.02	3369.38	3366.25	-1058.33	705592.71	380680.10	32°02'41.525"N	103°40'11.290"W	0.84	
12293.00	90.430	1.120	8966.80	3457.36	3454.24	-1056.91	705594.14	380768.09	32°02'42.395"N	103°40'11.267"W	0.79	
12382.00	89.600	359.130	8966.78	3546.35	3543.23	-1056.71	705594.33	380857.08	32°02'43.276"N	103°40'11.259"W	2.42	
12470.00	89.570	358.590	8967.41	3634.34	3631.21	-1058.46	705592.58	380945.05	32°02'44.147"N	103°40'11.273"W	0.61	
12559.00	90.060	359.050	8967.70	3723.32	3720.19	-1060.30	705590.75	381034.03	32°02'45.027"N	103°40'11.288"W	0.76	
12648.00	88.180	359.570	8969.07	3812.30	3809.17	-1061.37	705589.68	381123.00	32°02'45.908"N	103°40'11.294"W	2.19	
12736.00	88.210	359.810	8971.84	3900.26	3897.13	-1061.84	705589.20	381210.95	32°02'46.778"N	103°40'11.293"W	0.27	
12824.00	87.780	359.720	8974.92	3988.21	3985.07	-1062.20	705588.84	381298.90	32°02'47.649"N	103°40'11.291"W	0.50	
12913.00	87.470	359.770	8978.61	4077.13	4073.99	-1062.60	705588.45	381387.81	32°02'48.529"N	103°40'11.289"W	0.35	
13001.00	86.140	359.910	8983.51	4164.99	4161.85	-1062.84	705588.20	381475.67	32°02'49.398"N	103°40'11.286"W	1.52	
13090.00	85.840	359.780	8989.74	4253.77	4250.64	-1063.08	705587.96	381564.45	32°02'50.277"N	103°40'11.282"W	0.37	
13178.00	91.730	1.020	8991.80	4341.71	4338.57	-1062.47	705588.58	381652.38	32°02'51.147"N	103°40'11.269"W	6.84	
13267.00	91.570	1.790	8989.04	4430.64	4427.51	-1060.29	705590.76	381741.32	32°02'52.027"N	103°40'11.237"W	0.88	
13355.00	87.720	0.570	8989.58	4518.59	4515.47	-1058.48	705592.57	381829.27	32°02'52.897"N	103°40'11.210"W	4.59	
13443.00	87.200	1.600	8993.48	4606.48	4603.37	-1056.81	705594.23	381917.17	32°02'53.767"N	103°40'11.184"W	1.31	
13532.00	87.630	359.020	8997.50	4695.38	4692.27	-1056.33	705594.72	382006.08	32°02'54.646"N	103°40'11.172"W	2.94	
13620.00	88.610	359.040	9000.39	4783.32	4780.21	-1057.82	705593.23	382094.00	32°02'55.517"N	103°40'11.183"W	1.11	
13709.00	89.050	358.690	9002.20	4872.29	4869.17	-1059.58	705591.46	382182.96	32°02'56.397"N	103°40'11.198"W	0.63	
13798.00	91.350	0.680	9001.89	4961.28	4958.16	-1060.07	705590.97	382271.94	32°02'57.278"N	103°40'11.197"W	3.42	
13883.00	91.700	1.440	8999.63	5046.23	5043.11	-1058.50	705592.55	382356.89	32°02'58.118"N	103°40'11.173"W	0.98	3/4 BH MWD 11320' - 13883'
13947.00	91.700	1.440	8997.73	5110.18	5107.06	-1058.89	705594.15	382420.84	32°02'58.751"N	103°40'11.149"W	0.00	Projection to TD: 13947'



Actual Wellpath Report

SD WE 15 Federal P12 No. 1H awp 173.5' - 13883' Proj: 13947'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD WE 15 Fed P12 No. 1H
Area	Lea County, NM	Well	SD WE 15 Federal P12 No. 1H
Field	Jennings / Upper BN SPRN Shale (Lea County, NM)	Wellbore	SD WE 15 Fed P12 No. 1H (AWB)
Facility	SD WE 15 Fed P12		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SD WE 15 Fed P12 No. 1H lp1 rev 2	8957.34	2616.39	-1062.56	705588.49	379930.27	32°02'34.105"N	103°40'11.393"W	point
SD WE 15 Fed P12 No. 1H lp1	8988.00	2616.39	-1062.56	705588.49	379930.27	32°02'34.105"N	103°40'11.393"W	point
SD WE 15 Fed P12 No. 1H BHL rev 4	8990.21	5108.22	-1070.05	705581.00	382422.00	32°02'58.763"N	103°40'11.302"W	rectangle
SD WE 15 Fed P12 No. 1H BHL rev 3	8996.00	5108.22	-1070.05	705581.00	382422.00	32°02'58.763"N	103°40'11.302"W	rectangle

WELLPATH COMPOSITION - Ref Wellbore: SD WE 15 Fed P12 No. 1H (AWB) Ref Wellpath: SD WE 15 Federal P12 No. 1H awp 173.5' - 13883' Proj: 13947'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
32.60	4433.00	BHI NaviTrak (Standard)	12 1/4 BHI MWD 173.5' - 4433'	SD WE 15 Fed P12 No. 1H (AWB)
4433.00	7619.00	BHI NaviTrak (Standard)	8 3/4 BH MWD 4611' - 7619'	SD WE 15 Fed P12 No. 1H (AWB)
7619.00	11232.00	BHI NaviTrak (Standard)	8 3/4 BH MWD 7796' - 11232'	SD WE 15 Fed P12 No. 1H (AWB)
11232.00	13883.00	BHI NaviTrak (Standard)	8 3/4 BH MWD 11320' - 13883'	SD WE 15 Fed P12 No. 1H (AWB)
13883.00	13947.00	Blind Drilling (std)	Projection to bit	SD WE 15 Fed P12 No. 1H (AWB)



Actual Wellpath Report

SD WE 15 Federal P12 No. 1H awp 173.5' - 13883' Proj: 13947'

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**BAKER
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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD WE 15 Fed P12 No. 1H
Area	Lea County, NM	Well	SD WE 15 Federal P12 No. 1H
Field	Jennings / Upper BN SPRN Shale (Lea County, NM)	Wellbore	SD WE 15 Fed P12 No. 1H (AWB)
Facility	SD WE 15 Fed P12		

COMMENTS

Wellpath general comments

Well: SD WE 15 Federal P12 No. 1H
Field: Jennings/Upper BN SPRN, Shale
Rig: Nabors X30
Location: Lea Co., NM
API: 30-025-43613-00
Latitude: 32° 02' 08.149" N
Longitude: 103° 39' 59.237" W
DF Elevation: 3181.6 feet
Elev. GL: 3149 feet
Proposed Direction: 359.83°
PBHL: 13947 feet
Duration: 06/18/2017-08/02/2017
FSE's: D. Hardeman
SO#: 8605097
12 1/4 BHI MWD 173.5' - 4433'
8 3/4 BH MWD 4611' - 7619'
8 3/4 BH MWD 7796' - 11232'
8 3/4 BH MWD 11320' - 13883'
Projection to TD: 13947'