



Chevron U.S.A. Inc.



Location: Lea County, NM
Field: Jennings; Upper Bone Spring (Lea County, NM)
Facility: SD WE 15 Fed P12

Slot: SD WE 15 Fed P12 No. 4H
Well: SD WE 15 Fed P12 No. 4H
Wellbore: SD WE 15 Fed P12 No. 4H (PWB)

Well Profile Data

Design Comment	MD (ft)	Inc (")	Az (")	TVD (ft)	Local N (ft)	Local E (ft)	DLS ("/100ft)	VS (ft)
Tie On	0.00	0.000	86.246	0.00	0.00	0.00	0.00	0.00
Start Nuedge	900.00	0.000	86.246	900.00	0.00	0.00	0.00	0.00
EOB/SH	1900.00	10.000	86.246	1894.93	5.70	86.86	1.00	5.44
EOH/SOD	5804.50	10.000	86.246	5740.12	50.09	763.41	0.00	47.80
Drop to Zero	6804.50	0.000	359.828	6735.05	55.79	850.27	1.00	53.24
KOP: 100' FSL, 2310' FWL	8610.38	0.000	359.828	8540.92	55.79	850.27	0.00	53.24
LP: 577' FSL, 2310' FWL	9359.38	89.880	359.828	9018.38	532.26	848.84	12.00	529.71
BHL: 180' FNL, 2310' FWL	13951.38	89.880	359.828	9028.00	5124.23	835.04	0.00	5121.70

Wellpath Comments

MD (ft)	X (ft)	Y (ft)	TVD (ft)	Inclination (")	Azimuth (")	VS (ft)	Comment
9100.00	849.58	285.60	8949.13	58.755	359.828	283.04	FTP: 9100' MD 330' FSL, 2310' FWL, 283' VS
13801.00	835.49	4973.85	9027.69	89.880	359.828	4971.32	LTP: 13801' MD 330' FNL, 2310' FWL, 4971' VS

Location Information

Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
SD WE 15 Fed P12	706651.000	377314.000	32°02'08.149"N	103°39'58.237"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
SD WE 15 Fed P12 No. 4H	1.00	75.00	706726.000	377315.000
Rig on SD WE 15 Fed P12 No. 4H (RT) to Mud line (At Slot: SD WE 15 Fed P12 No. 4H)			3146ft	
Mean Sea Level to Mud line (At Slot: SD WE 15 Fed P12 No. 4H)			0ft	
Rig on SD WE 15 Fed P12 No. 4H (RT) to Mean Sea Level			3146ft	

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
13951.38	89.880	359.828	9028.00	5124.23	835.04	707561.00	382439.00	32°02'58.811"N	103°39'48.296"W

Plot reference wellpath is SD WE 15 Fed P12 No. 4H (PWP) Prelim 2

Grid System: NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet

True vertical depths are referenced to Rig on SD WE 15 Fed P12 No. 4H (RT)

* = Wellpath was transformed from a different geodetic datum

Measured depths are referenced to Rig on SD WE 15 Fed P12 No. 4H (RT)

North Reference: Grid north

Rig on SD WE 15 Fed P12 No. 4H (RT) to Mean Sea Level: 3146 feet

Scale: True distance

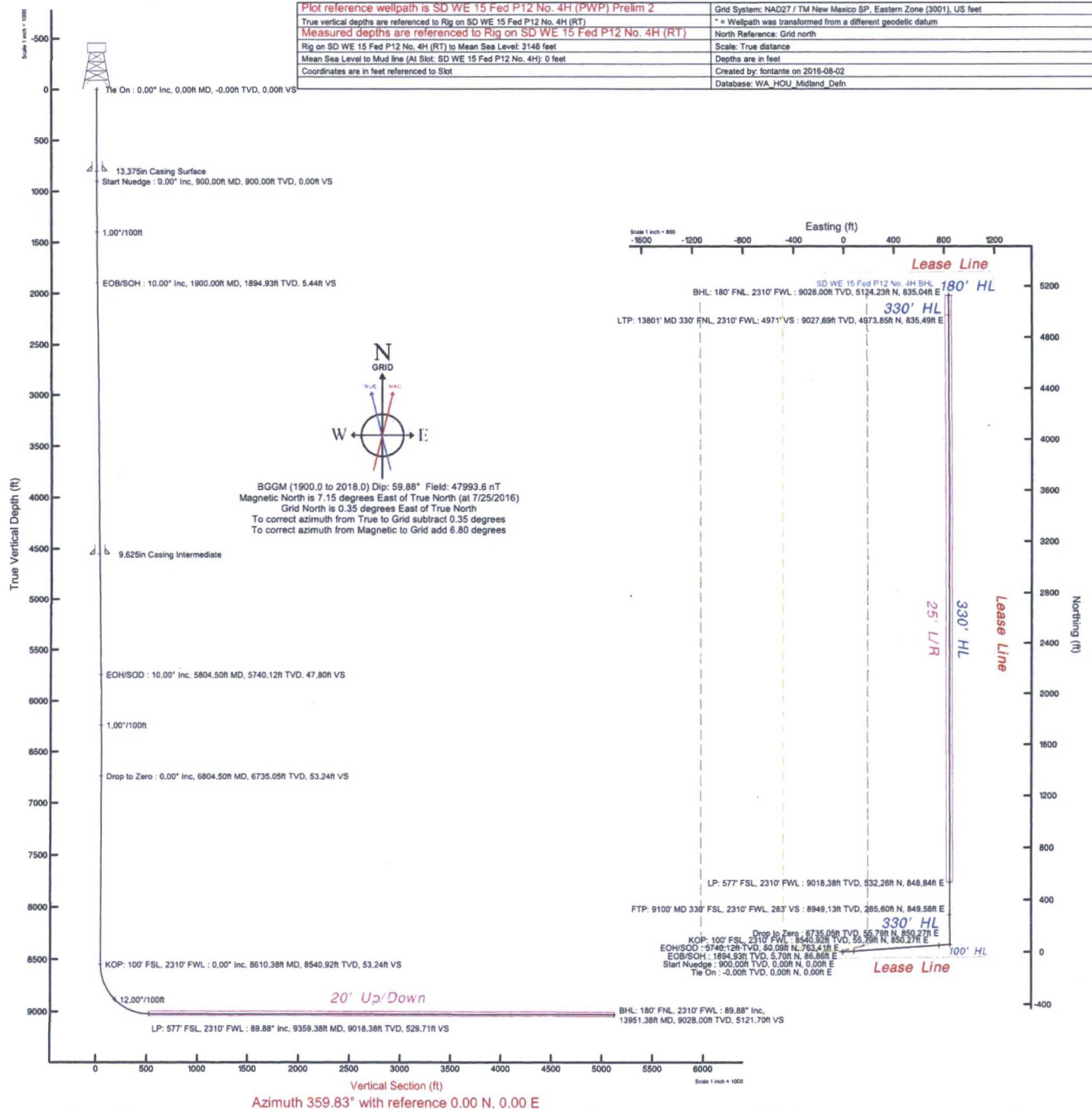
Mean Sea Level to Mud line (At Slot: SD WE 15 Fed P12 No. 4H): 0 feet

Depths are in feet

Coordinates are in feet referenced to Slot

Created by: fontante on 2016-08-02

Database: WA_HOU_Midland_Defn





Planned Wellpath Report

SD WE 15 Fed P12 No. 4H (PWP) Prelim 2

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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD WE 15 Fed P12 No. 4H
Area	Lea County, NM	Well	SD WE 15 Fed P12 No. 4H
Field	Jennings; Upper Bone Spring (Lea County, NM)	Wellbore	SD WE 15 Fed P12 No. 4H (PWB)
Facility	SD WE 15 Fed P12		

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 5.0
North Reference	Grid	User	Fontante
Scale	0.999958	Report Generated	8/2/2016 at 3:27:51 PM
Convergence at slot	0.36° East	Database/Source file	WA_HOU_Midland_Defn/SD_WE_15_Fed_P12_No_4H_PWP_Prelim_2.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	1.00	75.00	706726.00	377315.00	32°02'08.155"N	103°39'58.365"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 on SD WE 15 Fed P12 No. 4H (RT) to Facility Vertical Datum	3146.00ft
Horizontal Reference Pt	Slot	Rig on SD WE 15 Fed P12 No. 4H (RT) to Mean Sea Level	3146.00ft
Vertical Reference Pt	Rig on SD WE 15 Fed P12 No. 4H (RT)	Rig on SD WE 15 Fed P12 No. 4H (RT) to Mud Line at Slot (SD WE 15 Fed P12 No. 4H)	3146.00ft
MD Reference Pt	Rig on SD WE 15 Fed P12 No. 4H (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	359.83°



Planned Wellpath Report

SD WE 15 Fed P12 No. 4H (PWP) Prelim 2
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REFERENCE WELLPATH IDENTIFICATION

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Area	Lea County, NM	Well	SD WE 15 Fed P12 No. 4H
Field	Jennings; Upper Bone Spring (Lea County, NM)	Wellbore	SD WE 15 Fed P12 No. 4H (PWB)
Facility	SD WE 15 Fed P12		

WELLPATH DATA (146 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	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Comments
0.00	0.000	86.246	0.00	0.00	0.00	0.00	706726.00	377315.00	32°02'08.155"N	103°39'58.365"W	0.00	0.000	0.00	Tie On
100.00†	0.000	86.246	100.00	0.00	0.00	0.00	706726.00	377315.00	32°02'08.155"N	103°39'58.365"W	0.00	0.000	0.00	
200.00†	0.000	86.246	200.00	0.00	0.00	0.00	706726.00	377315.00	32°02'08.155"N	103°39'58.365"W	0.00	0.000	0.00	
300.00†	0.000	86.246	300.00	0.00	0.00	0.00	706726.00	377315.00	32°02'08.155"N	103°39'58.365"W	0.00	0.000	0.00	
400.00†	0.000	86.246	400.00	0.00	0.00	0.00	706726.00	377315.00	32°02'08.155"N	103°39'58.365"W	0.00	0.000	0.00	
500.00†	0.000	86.246	500.00	0.00	0.00	0.00	706726.00	377315.00	32°02'08.155"N	103°39'58.365"W	0.00	0.000	0.00	
600.00†	0.000	86.246	600.00	0.00	0.00	0.00	706726.00	377315.00	32°02'08.155"N	103°39'58.365"W	0.00	0.000	0.00	
700.00†	0.000	86.246	700.00	0.00	0.00	0.00	706726.00	377315.00	32°02'08.155"N	103°39'58.365"W	0.00	0.000	0.00	
800.00†	0.000	86.246	800.00	0.00	0.00	0.00	706726.00	377315.00	32°02'08.155"N	103°39'58.365"W	0.00	0.000	0.00	
900.00	0.000	86.246	900.00	0.00	0.00	0.00	706726.00	377315.00	32°02'08.155"N	103°39'58.365"W	0.00	0.000	0.00	Start Nuedge
1000.00†	1.000	86.246	999.99	0.05	0.06	0.87	706726.87	377315.06	32°02'08.155"N	103°39'58.355"W	0.87	86.246	1.00	
1100.00†	2.000	86.246	1099.96	0.22	0.23	3.48	706729.48	377315.23	32°02'08.157"N	103°39'58.325"W	3.49	86.246	1.00	
1200.00†	3.000	86.246	1199.86	0.49	0.51	7.84	706733.83	377315.51	32°02'08.159"N	103°39'58.274"W	7.85	86.246	1.00	
1300.00†	4.000	86.246	1299.68	0.87	0.91	13.93	706739.93	377315.91	32°02'08.163"N	103°39'58.203"W	13.96	86.246	1.00	
1400.00†	5.000	86.246	1399.37	1.36	1.43	21.76	706747.76	377316.43	32°02'08.167"N	103°39'58.113"W	21.80	86.246	1.00	
1500.00†	6.000	86.246	1498.90	1.96	2.06	31.32	706757.32	377317.06	32°02'08.173"N	103°39'58.001"W	31.39	86.246	1.00	
1600.00†	7.000	86.246	1598.26	2.67	2.80	42.62	706768.61	377317.80	32°02'08.180"N	103°39'57.870"W	42.71	86.246	1.00	
1700.00†	8.000	86.246	1697.40	3.48	3.65	55.64	706781.64	377318.65	32°02'08.187"N	103°39'57.719"W	55.76	86.246	1.00	
1800.00†	9.000	86.246	1796.30	4.41	4.62	70.39	706796.39	377319.62	32°02'08.196"N	103°39'57.547"W	70.54	86.246	1.00	
1900.00	10.000	86.246	1894.93	5.44	5.70	86.86	706812.85	377320.70	32°02'08.206"N	103°39'57.356"W	87.05	86.246	1.00	EOB/SOH
2000.00†	10.000	86.246	1993.41	6.52	6.84	104.19	706830.18	377321.84	32°02'08.216"N	103°39'57.155"W	104.41	86.246	0.00	
2100.00†	10.000	86.246	2091.89	7.61	7.97	121.51	706847.51	377322.97	32°02'08.226"N	103°39'56.953"W	121.77	86.246	0.00	
2200.00†	10.000	86.246	2190.37	8.69	9.11	138.84	706864.83	377324.11	32°02'08.236"N	103°39'56.752"W	139.14	86.246	0.00	
2300.00†	10.000	86.246	2288.85	9.78	10.25	156.17	706882.16	377325.25	32°02'08.246"N	103°39'56.551"W	156.50	86.246	0.00	
2400.00†	10.000	86.246	2387.33	10.86	11.38	173.50	706899.49	377326.38	32°02'08.257"N	103°39'56.349"W	173.87	86.246	0.00	
2500.00†	10.000	86.246	2485.82	11.95	12.52	190.82	706916.82	377327.52	32°02'08.267"N	103°39'56.148"W	191.23	86.246	0.00	
2600.00†	10.000	86.246	2584.30	13.03	13.66	208.15	706934.14	377328.66	32°02'08.277"N	103°39'55.946"W	208.60	86.246	0.00	
2700.00†	10.000	86.246	2682.78	14.12	14.80	225.48	706951.47	377329.79	32°02'08.287"N	103°39'55.745"W	225.96	86.246	0.00	
2800.00†	10.000	86.246	2781.26	15.20	15.93	242.81	706968.80	377330.93	32°02'08.297"N	103°39'55.544"W	243.33	86.246	0.00	
2900.00†	10.000	86.246	2879.74	16.29	17.07	260.13	706986.12	377332.07	32°02'08.308"N	103°39'55.342"W	260.69	86.246	0.00	



Planned Wellpath Report

SD WE 15 Fed P12 No. 4H (PWP) Prelim 2
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REFERENCE WELLPATH IDENTIFICATION

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Area	Lea County, NM	Well	SD WE 15 Fed P12 No. 4H
Field	Jennings; Upper Bone Spring (Lea County, NM)	Wellbore	SD WE 15 Fed P12 No. 4H (PWB)
Facility	SD WE 15 Fed P12		

WELLPATH DATA (146 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	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Comments
3000.00†	10.000	86.246	2978.22	17.37	18.21	277.46	707003.45	377333.21	32°02'08.318"N	103°39'55.141"W	278.06	86.246	0.00	
3100.00†	10.000	86.246	3076.70	18.46	19.34	294.79	707020.78	377334.34	32°02'08.328"N	103°39'54.940"W	295.42	86.246	0.00	
3200.00†	10.000	86.246	3175.18	19.54	20.48	312.12	707038.10	377335.48	32°02'08.338"N	103°39'54.738"W	312.79	86.246	0.00	
3300.00†	10.000	86.246	3273.66	20.63	21.62	329.44	707055.43	377336.62	32°02'08.348"N	103°39'54.537"W	330.15	86.246	0.00	
3400.00†	10.000	86.246	3372.14	21.71	22.75	346.77	707072.76	377337.75	32°02'08.359"N	103°39'54.336"W	347.52	86.246	0.00	
3500.00†	10.000	86.246	3470.62	22.80	23.89	364.10	707090.08	377338.89	32°02'08.369"N	103°39'54.134"W	364.88	86.246	0.00	
3600.00†	10.000	86.246	3569.10	23.88	25.03	381.43	707107.41	377340.03	32°02'08.379"N	103°39'53.933"W	382.25	86.246	0.00	
3700.00†	10.000	86.246	3667.58	24.97	26.17	398.75	707124.74	377341.16	32°02'08.389"N	103°39'53.731"W	399.61	86.246	0.00	
3800.00†	10.000	86.246	3766.07	26.05	27.30	416.08	707142.06	377342.30	32°02'08.399"N	103°39'53.530"W	416.98	86.246	0.00	
3900.00†	10.000	86.246	3864.55	27.14	28.44	433.41	707159.39	377343.44	32°02'08.410"N	103°39'53.329"W	434.34	86.246	0.00	
4000.00†	10.000	86.246	3963.03	28.22	29.58	450.74	707176.72	377344.58	32°02'08.420"N	103°39'53.127"W	451.71	86.246	0.00	
4100.00†	10.000	86.246	4061.51	29.31	30.71	468.06	707194.04	377345.71	32°02'08.430"N	103°39'52.926"W	469.07	86.246	0.00	
4200.00†	10.000	86.246	4159.99	30.39	31.85	485.39	707211.37	377346.85	32°02'08.440"N	103°39'52.725"W	486.44	86.246	0.00	
4300.00†	10.000	86.246	4258.47	31.48	32.99	502.72	707228.70	377347.99	32°02'08.450"N	103°39'52.523"W	503.80	86.246	0.00	
4400.00†	10.000	86.246	4356.95	32.56	34.12	520.05	707246.02	377349.12	32°02'08.460"N	103°39'52.322"W	521.17	86.246	0.00	
4500.00†	10.000	86.246	4455.43	33.65	35.26	537.37	707263.35	377350.26	32°02'08.471"N	103°39'52.121"W	538.53	86.246	0.00	
4600.00†	10.000	86.246	4553.91	34.73	36.40	554.70	707280.68	377351.40	32°02'08.481"N	103°39'51.919"W	555.90	86.246	0.00	
4700.00†	10.000	86.246	4652.39	35.82	37.54	572.03	707298.00	377352.53	32°02'08.491"N	103°39'51.718"W	573.26	86.246	0.00	
4800.00†	10.000	86.246	4750.87	36.90	38.67	589.36	707315.33	377353.67	32°02'08.501"N	103°39'51.516"W	590.62	86.246	0.00	
4900.00†	10.000	86.246	4849.35	37.99	39.81	606.68	707332.66	377354.81	32°02'08.511"N	103°39'51.315"W	607.99	86.246	0.00	
5000.00†	10.000	86.246	4947.83	39.07	40.95	624.01	707349.99	377355.94	32°02'08.522"N	103°39'51.114"W	625.35	86.246	0.00	
5100.00†	10.000	86.246	5046.32	40.16	42.08	641.34	707367.31	377357.08	32°02'08.532"N	103°39'50.912"W	642.72	86.246	0.00	
5200.00†	10.000	86.246	5144.80	41.24	43.22	658.67	707384.64	377358.22	32°02'08.542"N	103°39'50.711"W	660.08	86.246	0.00	
5300.00†	10.000	86.246	5243.28	42.33	44.36	676.00	707401.97	377359.36	32°02'08.552"N	103°39'50.510"W	677.45	86.246	0.00	
5400.00†	10.000	86.246	5341.76	43.41	45.49	693.32	707419.29	377360.49	32°02'08.562"N	103°39'50.308"W	694.81	86.246	0.00	
5500.00†	10.000	86.246	5440.24	44.50	46.63	710.65	707436.62	377361.63	32°02'08.573"N	103°39'50.107"W	712.18	86.246	0.00	
5600.00†	10.000	86.246	5538.72	45.58	47.77	727.98	707453.95	377362.77	32°02'08.583"N	103°39'49.906"W	729.54	86.246	0.00	
5700.00†	10.000	86.246	5637.20	46.67	48.91	745.31	707471.27	377363.90	32°02'08.593"N	103°39'49.704"W	746.91	86.246	0.00	
5800.00†	10.000	86.246	5735.68	47.75	50.04	762.63	707488.60	377365.04	32°02'08.603"N	103°39'49.503"W	764.27	86.246	0.00	
5804.50	10.000	86.246	5740.12	47.80	50.09	763.41	707489.38	377365.09	32°02'08.604"N	103°39'49.494"W	765.06	86.246	0.00	EOH/SOD



Planned Wellpath Report

SD WE 15 Fed P12 No. 4H (PWP) Prelim 2
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Area	Lea County, NM	Well	SD WE 15 Fed P12 No. 4H
Field	Jennings; Upper Bone Spring (Lea County, NM)	Wellbore	SD WE 15 Fed P12 No. 4H (PWB)
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5900.00†	9.045	86.246	5834.30	48.79	51.13	779.18	707505.14	377366.13	32°02'08.613"N	103°39'49.311"W	780.85	86.246	1.00	
6000.00†	8.045	86.246	5933.18	49.72	52.10	794.00	707519.97	377367.10	32°02'08.622"N	103°39'49.138"W	795.71	86.246	1.00	
6100.00†	7.045	86.246	6032.32	50.54	52.96	807.11	707533.07	377367.96	32°02'08.629"N	103°39'48.986"W	808.84	86.246	1.00	
6200.00†	6.045	86.246	6131.66	51.25	53.71	818.48	707544.44	377368.70	32°02'08.636"N	103°39'48.854"W	820.24	86.246	1.00	
6300.00†	5.045	86.246	6231.20	51.85	54.34	828.12	707554.09	377369.34	32°02'08.642"N	103°39'48.742"W	829.90	86.246	1.00	
6400.00†	4.045	86.246	6330.88	52.35	54.86	836.03	707561.99	377369.86	32°02'08.646"N	103°39'48.650"W	837.83	86.246	1.00	
6500.00†	3.045	86.246	6430.69	52.74	55.26	842.20	707568.16	377370.26	32°02'08.650"N	103°39'48.578"W	844.01	86.246	1.00	
6600.00†	2.045	86.246	6530.59	53.01	55.55	846.63	707572.59	377370.55	32°02'08.653"N	103°39'48.527"W	848.45	86.246	1.00	
6700.00†	1.045	86.246	6630.55	53.18	55.73	849.32	707575.28	377370.73	32°02'08.654"N	103°39'48.495"W	851.15	86.246	1.00	
6800.00†	0.045	86.246	6730.54	53.24	55.79	850.27	707576.23	377370.79	32°02'08.655"N	103°39'48.484"W	852.10	86.246	1.00	
6804.50	0.000	359.828	6735.05	53.24	55.79	850.27	707576.23	377370.79	32°02'08.655"N	103°39'48.484"W	852.10	86.246	1.00	Drop to Zero
6900.00†	0.000	359.828	6830.54	53.24	55.79	850.27	707576.23	377370.79	32°02'08.655"N	103°39'48.484"W	852.10	86.246	0.00	
7000.00†	0.000	359.828	6930.54	53.24	55.79	850.27	707576.23	377370.79	32°02'08.655"N	103°39'48.484"W	852.10	86.246	0.00	
7100.00†	0.000	359.828	7030.54	53.24	55.79	850.27	707576.23	377370.79	32°02'08.655"N	103°39'48.484"W	852.10	86.246	0.00	
7200.00†	0.000	359.828	7130.54	53.24	55.79	850.27	707576.23	377370.79	32°02'08.655"N	103°39'48.484"W	852.10	86.246	0.00	
7300.00†	0.000	359.828	7230.54	53.24	55.79	850.27	707576.23	377370.79	32°02'08.655"N	103°39'48.484"W	852.10	86.246	0.00	
7400.00†	0.000	359.828	7330.54	53.24	55.79	850.27	707576.23	377370.79	32°02'08.655"N	103°39'48.484"W	852.10	86.246	0.00	
7500.00†	0.000	359.828	7430.54	53.24	55.79	850.27	707576.23	377370.79	32°02'08.655"N	103°39'48.484"W	852.10	86.246	0.00	
7600.00†	0.000	359.828	7530.54	53.24	55.79	850.27	707576.23	377370.79	32°02'08.655"N	103°39'48.484"W	852.10	86.246	0.00	
7700.00†	0.000	359.828	7630.54	53.24	55.79	850.27	707576.23	377370.79	32°02'08.655"N	103°39'48.484"W	852.10	86.246	0.00	
7800.00†	0.000	359.828	7730.54	53.24	55.79	850.27	707576.23	377370.79	32°02'08.655"N	103°39'48.484"W	852.10	86.246	0.00	
7900.00†	0.000	359.828	7830.54	53.24	55.79	850.27	707576.23	377370.79	32°02'08.655"N	103°39'48.484"W	852.10	86.246	0.00	
8000.00†	0.000	359.828	7930.54	53.24	55.79	850.27	707576.23	377370.79	32°02'08.655"N	103°39'48.484"W	852.10	86.246	0.00	
8100.00†	0.000	359.828	8030.54	53.24	55.79	850.27	707576.23	377370.79	32°02'08.655"N	103°39'48.484"W	852.10	86.246	0.00	
8200.00†	0.000	359.828	8130.54	53.24	55.79	850.27	707576.23	377370.79	32°02'08.655"N	103°39'48.484"W	852.10	86.246	0.00	
8300.00†	0.000	359.828	8230.54	53.24	55.79	850.27	707576.23	377370.79	32°02'08.655"N	103°39'48.484"W	852.10	86.246	0.00	
8400.00†	0.000	359.828	8330.54	53.24	55.79	850.27	707576.23	377370.79	32°02'08.655"N	103°39'48.484"W	852.10	86.246	0.00	
8500.00†	0.000	359.828	8430.54	53.24	55.79	850.27	707576.23	377370.79	32°02'08.655"N	103°39'48.484"W	852.10	86.246	0.00	
8600.00†	0.000	359.828	8530.54	53.24	55.79	850.27	707576.23	377370.79	32°02'08.655"N	103°39'48.484"W	852.10	86.246	0.00	
8610.38	0.000	359.828	8540.92	53.24	55.79	850.27	707576.23	377370.79	32°02'08.655"N	103°39'48.484"W	852.10	86.246	0.00	KOP: 100' FSL, 2310' FWL



Planned Wellpath Report

SD WE 15 Fed P12 No. 4H (PWP) Prelim 2
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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD WE 15 Fed P12 No. 4H
Area	Lea County, NM	Well	SD WE 15 Fed P12 No. 4H
Field	Jennings; Upper Bone Spring (Lea County, NM)	Wellbore	SD WE 15 Fed P12 No. 4H (PWB)
Facility	SD WE 15 Fed P12		

WELLPATH DATA (146 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	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Comments
8700.00†	10.755	359.828	8630.02	61.63	64.18	850.25	707576.21	377379.18	32°02'08.738"N	103°39'48.484"W	852.67	85.683	12.00	
8800.00†	22.755	359.828	8725.60	90.40	92.96	850.16	707576.12	377407.95	32°02'09.022"N	103°39'48.483"W	855.23	83.760	12.00	
8900.00†	34.755	359.828	8813.11	138.42	140.97	850.02	707575.98	377455.97	32°02'09.498"N	103°39'48.481"W	861.63	80.583	12.00	
9000.00†	46.755	359.828	8888.72	203.58	206.14	849.82	707575.78	377521.13	32°02'10.142"N	103°39'48.479"W	874.46	76.365	12.00	
9100.00†	58.755	359.828	8949.13	283.04	285.60	849.58	707575.54	377600.58	32°02'10.929"N	103°39'48.476"W	896.30	71.419	12.00	FTP: 9100' MD 330' FSL, 2310' FWL, 283' VS
9200.00†	70.755	359.828	8991.70	373.33	375.88	849.31	707575.27	377690.86	32°02'11.822"N	103°39'48.472"W	928.77	66.127	12.00	
9300.00†	82.755	359.828	9014.57	470.49	473.04	849.02	707574.98	377788.02	32°02'12.784"N	103°39'48.469"W	971.90	60.875	12.00	
9359.38	89.880	359.828	9018.38	529.71	532.26	848.84	707574.80	377847.23	32°02'13.370"N	103°39'48.467"W	1001.91	57.911	12.00	LP: 577' FSL, 2310' FWL
9400.00†	89.880	359.828	9018.47	570.33	572.88	848.72	707574.68	377887.86	32°02'13.772"N	103°39'48.465"W	1023.97	55.981	0.00	
9500.00†	89.880	359.828	9018.68	670.33	672.88	848.42	707574.38	377987.85	32°02'14.761"N	103°39'48.461"W	1082.86	51.582	0.00	
9600.00†	89.880	359.828	9018.89	770.33	772.88	848.12	707574.08	378087.85	32°02'15.751"N	103°39'48.458"W	1147.45	47.657	0.00	
9700.00†	89.880	359.828	9019.10	870.33	872.88	847.82	707573.78	378187.84	32°02'16.740"N	103°39'48.454"W	1216.84	44.166	0.00	
9800.00†	89.880	359.828	9019.31	970.33	972.88	847.52	707573.48	378287.83	32°02'17.730"N	103°39'48.450"W	1290.26	41.061	0.00	
9900.00†	89.880	359.828	9019.51	1070.33	1072.88	847.21	707573.18	378387.83	32°02'18.719"N	103°39'48.447"W	1367.05	38.297	0.00	
10000.00†	89.880	359.828	9019.72	1170.33	1172.88	846.91	707572.88	378487.82	32°02'19.709"N	103°39'48.443"W	1446.69	35.832	0.00	
10100.00†	89.880	359.828	9019.93	1270.33	1272.88	846.61	707572.58	378587.82	32°02'20.699"N	103°39'48.439"W	1528.71	33.629	0.00	
10200.00†	89.880	359.828	9020.14	1370.33	1372.87	846.31	707572.28	378687.81	32°02'21.688"N	103°39'48.435"W	1612.77	31.652	0.00	
10300.00†	89.880	359.828	9020.35	1470.33	1472.87	846.01	707571.97	378787.81	32°02'22.678"N	103°39'48.432"W	1698.56	29.873	0.00	
10400.00†	89.880	359.828	9020.56	1570.33	1572.87	845.71	707571.67	378887.80	32°02'23.667"N	103°39'48.428"W	1785.82	28.266	0.00	
10500.00†	89.880	359.828	9020.77	1670.33	1672.87	845.41	707571.37	378987.80	32°02'24.657"N	103°39'48.424"W	1874.36	26.810	0.00	
10600.00†	89.880	359.828	9020.98	1770.33	1772.87	845.11	707571.07	379087.79	32°02'25.646"N	103°39'48.421"W	1964.00	25.487	0.00	
10700.00†	89.880	359.828	9021.19	1870.33	1872.87	844.81	707570.77	379187.79	32°02'26.636"N	103°39'48.417"W	2054.59	24.279	0.00	
10800.00†	89.880	359.828	9021.40	1970.33	1972.87	844.51	707570.47	379287.78	32°02'27.626"N	103°39'48.413"W	2146.02	23.174	0.00	
10900.00†	89.880	359.828	9021.61	2070.33	2072.87	844.21	707570.17	379387.78	32°02'28.615"N	103°39'48.409"W	2238.19	22.159	0.00	
11000.00†	89.880	359.828	9021.82	2170.33	2172.87	843.91	707569.87	379487.77	32°02'29.605"N	103°39'48.406"W	2331.00	21.225	0.00	
11100.00†	89.880	359.828	9022.03	2270.33	2272.87	843.61	707569.57	379587.77	32°02'30.594"N	103°39'48.402"W	2424.38	20.363	0.00	
11200.00†	89.880	359.828	9022.24	2370.33	2372.87	843.31	707569.27	379687.76	32°02'31.584"N	103°39'48.398"W	2518.27	19.565	0.00	
11300.00†	89.880	359.828	9022.45	2470.33	2472.87	843.01	707568.97	379787.76	32°02'32.573"N	103°39'48.395"W	2612.61	18.824	0.00	
11400.00†	89.880	359.828	9022.66	2570.33	2572.87	842.71	707568.67	379887.75	32°02'33.563"N	103°39'48.391"W	2707.36	18.135	0.00	
11500.00†	89.880	359.828	9022.87	2670.33	2672.87	842.41	707568.37	379987.75	32°02'34.553"N	103°39'48.387"W	2802.47	17.493	0.00	



Planned Wellpath Report

SD WE 15 Fed P12 No. 4H (PWP) Prelim 2
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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD WE 15 Fed P12 No. 4H
Area	Lea County, NM	Well	SD WE 15 Fed P12 No. 4H
Field	Jennings; Upper Bone Spring (Lea County, NM)	Wellbore	SD WE 15 Fed P12 No. 4H (PWB)
Facility	SD WE 15 Fed P12		

WELLPATH DATA (146 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	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Comments
11600.00†	89.880	359.828	9023.08	2770.33	2772.87	842.10	707568.07	380087.74	32°02'35.542"N	103°39'48.383"W	2897.92	16.893	0.00	
11700.00†	89.880	359.828	9023.28	2870.32	2872.86	841.80	707567.77	380187.74	32°02'36.532"N	103°39'48.380"W	2993.66	16.332	0.00	
11800.00†	89.880	359.828	9023.49	2970.32	2972.86	841.50	707567.47	380287.73	32°02'37.521"N	103°39'48.376"W	3089.67	15.805	0.00	
11900.00†	89.880	359.828	9023.70	3070.32	3072.86	841.20	707567.17	380387.73	32°02'38.511"N	103°39'48.372"W	3185.92	15.310	0.00	
12000.00†	89.880	359.828	9023.91	3170.32	3172.86	840.90	707566.87	380487.72	32°02'39.500"N	103°39'48.369"W	3282.40	14.844	0.00	
12100.00†	89.880	359.828	9024.12	3270.32	3272.86	840.60	707566.56	380587.72	32°02'40.490"N	103°39'48.365"W	3379.09	14.404	0.00	
12200.00†	89.880	359.828	9024.33	3370.32	3372.86	840.30	707566.26	380687.71	32°02'41.480"N	103°39'48.361"W	3475.96	13.990	0.00	
12300.00†	89.880	359.828	9024.54	3470.32	3472.86	840.00	707565.96	380787.71	32°02'42.469"N	103°39'48.357"W	3573.00	13.597	0.00	
12400.00†	89.880	359.828	9024.75	3570.32	3572.86	839.70	707565.66	380887.70	32°02'43.459"N	103°39'48.354"W	3670.21	13.226	0.00	
12500.00†	89.880	359.828	9024.96	3670.32	3672.86	839.40	707565.36	380987.70	32°02'44.448"N	103°39'48.350"W	3767.56	12.873	0.00	
12600.00†	89.880	359.828	9025.17	3770.32	3772.86	839.10	707565.06	381087.69	32°02'45.438"N	103°39'48.346"W	3865.04	12.539	0.00	
12700.00†	89.880	359.828	9025.38	3870.32	3872.86	838.80	707564.76	381187.69	32°02'46.427"N	103°39'48.343"W	3962.65	12.221	0.00	
12800.00†	89.880	359.828	9025.59	3970.32	3972.86	838.50	707564.46	381287.68	32°02'47.417"N	103°39'48.339"W	4060.38	11.918	0.00	
12900.00†	89.880	359.828	9025.80	4070.32	4072.86	838.20	707564.16	381387.68	32°02'48.406"N	103°39'48.335"W	4158.21	11.629	0.00	
13000.00†	89.880	359.828	9026.01	4170.32	4172.86	837.90	707563.86	381487.67	32°02'49.396"N	103°39'48.331"W	4256.15	11.354	0.00	
13100.00†	89.880	359.828	9026.22	4270.32	4272.86	837.60	707563.56	381587.67	32°02'50.386"N	103°39'48.328"W	4354.18	11.091	0.00	
13200.00†	89.880	359.828	9026.43	4370.32	4372.85	837.30	707563.26	381687.66	32°02'51.375"N	103°39'48.324"W	4452.29	10.840	0.00	
13300.00†	89.880	359.828	9026.64	4470.32	4472.85	836.99	707562.96	381787.66	32°02'52.365"N	103°39'48.320"W	4550.49	10.599	0.00	
13400.00†	89.880	359.828	9026.85	4570.32	4572.85	836.69	707562.66	381887.65	32°02'53.354"N	103°39'48.317"W	4648.77	10.369	0.00	
13500.00†	89.880	359.828	9027.05	4670.32	4672.85	836.39	707562.36	381987.65	32°02'54.344"N	103°39'48.313"W	4747.12	10.148	0.00	
13600.00†	89.880	359.828	9027.26	4770.32	4772.85	836.09	707562.06	382087.64	32°02'55.333"N	103°39'48.309"W	4845.53	9.936	0.00	
13700.00†	89.880	359.828	9027.47	4870.32	4872.85	835.79	707561.76	382187.64	32°02'56.323"N	103°39'48.305"W	4944.01	9.733	0.00	
13800.00†	89.880	359.828	9027.68	4970.32	4972.85	835.49	707561.45	382287.63	32°02'57.313"N	103°39'48.302"W	5042.55	9.537	0.00	
13801.00†	89.880	359.828	9027.69	4971.32	4973.85	835.49	707561.45	382288.63	32°02'57.322"N	103°39'48.302"W	5043.53	9.535	0.00	LTP: 13801' MD 330' FNL, 2310' FWL; 4971' VS
13900.00†	89.880	359.828	9027.89	5070.32	5072.85	835.19	707561.15	382387.63	32°02'58.302"N	103°39'48.298"W	5141.14	9.349	0.00	
13951.38	89.880	359.828	9028.00†	5121.70	5124.23	835.04	707561.00	382439.00	32°02'58.811"N	103°39'48.296"W	5191.82	9.255	0.00	BHL: 180' FNL, 2310' FWL



Planned Wellpath Report

SD WE 15 Fed P12 No. 4H (PWP) Prelim 2
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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD WE 15 Fed P12 No. 4H
Area	Lea County, NM	Well	SD WE 15 Fed P12 No. 4H
Field	Jennings; Upper Bone Spring (Lea County, NM)	Wellbore	SD WE 15 Fed P12 No. 4H (PWB)
Facility	SD WE 15 Fed P12		

HOLE & CASING SECTIONS - Ref Wellbore: SD WE 15 Fed P12 No. 4H (PWB) Ref Wellpath: SD WE 15 Fed P12 No. 4H (PWP) Prelim 2

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
17.5in Open Hole	0.00	800.00	800.00	0.00	800.00	0.00	0.00	0.00	0.00
13.375in Casing Surface	0.00	800.00	800.00	0.00	800.00	0.00	0.00	0.00	0.00
12.25in Open Hole	800.00	4600.00	3800.00	800.00	4553.91	0.00	0.00	36.40	554.70
9.625in Casing Intermediate	0.00	4600.00	4600.00	0.00	4553.91	0.00	0.00	36.40	554.70
8.5in Open Hole	4600.00	13951.38	9351.38	4553.91	9028.00	36.40	554.70	5124.23	835.04

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) SD WE 15 Fed P12 No. 4H BHL	13951.38	9028.00	5124.23	835.04	707561.00	382439.00	32°02'58.811"N	103°39'48.296"W	rectangle

SURVEY PROGRAM - Ref Wellbore: SD WE 15 Fed P12 No. 4H (PWB) Ref Wellpath: SD WE 15 Fed P12 No. 4H (PWP) Prelim 2

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
3146.00	4600.00	ISCWSA MWD, Rev. 4 (Standard)		SD WE 15 Fed P12 No. 4H (PWB)
4600.00	13958.99	BHI AutoTrak Curve (Short)		SD WE 15 Fed P12 No. 4H (PWB)