



Actual Wellpath Report

SD WE 15 Federal P9 No. 6H awp 263' - 13869'Proj: 13923'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD WE 15 Fed P9 No. 6H
Area	Lea County, NM	Well	SD WE 15 Federal P9 No. 6H
Field	Jennings / Upper BN SPRN Shale (Lea County, NM)	Wellbore	SD WE 15 Fed P9 No. 6H AWB
Facility	SD WE 15 Fed P9		

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	0.999959	Report Generated	6/5/2017 at 2:47:04 PM
Convergence at slot	0.36° East	Database/Source file	WA_Midland/SD_WE_15_Federal_P9_No_6H_awp_263_-_13869_Proj_13923_.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	25.00	709149.00	377296.00	32°02'07.818"N	103°39'30.219"W
Facility Reference Pt			709124.00	377296.00	32°02'07.819"N	103°39'30.510"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	3189.60ft
Horizontal Reference Pt	Slot	Rig: Nabors X30 (KB) to Mean Sea Level	3189.60ft
Vertical Reference Pt	Rig: Nabors X30 (KB)	Rig: Nabors X30 (KB) to Ground Level at Slot (SD WE 15 Fed P9 No. 6H)	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	359.84°

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

SD WE 15 FED P9 #6H**30-025-43641 FRAC SUMMARY**

Interval Number	Link to Proppant	Proppant Mass (lb)	Cum Proppant Mass (lb)
1	100 mesh, 100 Mesh, Bulk Sand	7,587.00	8,718.00
1	100 mesh, 100 Mesh, Bulk Sand	16,049.00	24,767.00
1	100 mesh, 100 Mesh, Bulk Sand	18,797.00	43,564.00
1	100 mesh, 100 Mesh, Bulk Sand	32,064.00	75,628.00
1	100 mesh, 100 Mesh, Bulk Sand	27,765.00	103,393.00
1	40/70, PW 40/70, Bulk Sand	16,665.00	120,657.00
1	40/70, PW 40/70, Bulk Sand	33,368.00	154,025.00
1	40/70, PW 40/70, Bulk Sand	49,957.00	203,982.00
1	40/70, PW 40/70, Bulk Sand	63,966.00	267,948.00
1	40/70, PW 40/70, Bulk Sand	52,766.00	320,714.00
2	100 mesh, 100 Mesh, Bulk Sand	18,014.00	47,906.00
2	100 mesh, 100 Mesh, Bulk Sand	22,023.00	69,929.00
2	100 mesh, 100 Mesh, Bulk Sand	20,179.00	90,108.00
2	100 mesh, 100 Mesh, Bulk Sand	26,585.00	116,693.00
2	100 mesh, 100 Mesh, Bulk Sand	22,760.00	139,453.00
2	40/70, PW 40/70, Bulk Sand	36,189.00	180,870.00
2	40/70, PW 40/70, Bulk Sand	48,857.00	229,727.00
2	40/70, PW 40/70, Bulk Sand	57,400.00	287,127.00
2	40/70, PW 40/70, Bulk Sand	128,324.00	415,451.00
2	40/70, PW 40/70, Bulk Sand	47,644.00	463,095.00
3	100 mesh, 100 Mesh, Bulk Sand	4,081.00	4,558.00
3	100 mesh, 100 Mesh, Bulk Sand	8,246.00	12,804.00
3	100 mesh, 100 Mesh, Bulk Sand	9,273.00	22,077.00
3	100 mesh, 100 Mesh, Bulk Sand	17,095.00	39,172.00
3	100 mesh, 100 Mesh, Bulk Sand	13,744.00	52,916.00
3	40/70, PW 40/70, Bulk Sand	8,669.00	61,745.00
3	40/70, PW 40/70, Bulk Sand	17,628.00	79,373.00
3	40/70, PW 40/70, Bulk Sand	25,488.00	104,861.00
3	40/70, PW 40/70, Bulk Sand	36,246.00	141,107.00
3	40/70, PW 40/70, Bulk Sand	21,089.00	162,196.00
3	100 mesh, 100 Mesh, Bulk Sand	5,489.00	168,564.00
3	100 mesh, 100 Mesh, Bulk Sand	8,696.00	177,260.00
3	100 mesh, 100 Mesh, Bulk Sand	9,736.00	186,996.00
3	100 mesh, 100 Mesh, Bulk Sand	18,830.00	205,826.00
3	100 mesh, 100 Mesh, Bulk Sand	13,120.00	218,946.00
3	40/70, PW 40/70, Bulk Sand	10,512.00	229,489.00
3	40/70, PW 40/70, Bulk Sand	23,913.00	253,402.00
3	40/70, PW 40/70, Bulk Sand	21,007.00	274,409.00
3	40/70, PW 40/70, Bulk Sand	33,234.00	307,643.00
3	40/70, PW 40/70, Bulk Sand	22,295.00	329,938.00
4	100 mesh, 100 Mesh, Bulk Sand	3,788.00	4,176.00
4	100 mesh, 100 Mesh, Bulk Sand	8,193.00	12,369.00
4	100 mesh, 100 Mesh, Bulk Sand	9,446.00	21,815.00
4	100 mesh, 100 Mesh, Bulk Sand	16,452.00	38,267.00

4	100 mesh, 100 Mesh, Bulk Sand	17,804.00	56,071.00
4	40/70, PW 40/70, Bulk Sand	5,182.00	61,341.00
4	40/70, PW 40/70, Bulk Sand	16,804.00	78,145.00
4	40/70, PW 40/70, Bulk Sand	25,277.00	103,422.00
4	40/70, PW 40/70, Bulk Sand	32,432.00	135,854.00
4	40/70, PW 40/70, Bulk Sand	24,400.00	160,254.00
4	100 mesh, 100 Mesh, Bulk Sand	5,343.00	165,677.00
4	100 mesh, 100 Mesh, Bulk Sand	7,120.00	172,797.00
4	100 mesh, 100 Mesh, Bulk Sand	10,253.00	183,050.00
4	100 mesh, 100 Mesh, Bulk Sand	16,049.00	199,099.00
4	100 mesh, 100 Mesh, Bulk Sand	16,459.00	215,558.00
4	40/70, PW 40/70, Bulk Sand	7,051.00	222,628.00
4	40/70, PW 40/70, Bulk Sand	17,245.00	239,873.00
4	40/70, PW 40/70, Bulk Sand	25,296.00	265,169.00
4	40/70, PW 40/70, Bulk Sand	31,287.00	296,456.00
4	40/70, PW 40/70, Bulk Sand	31,564.00	328,020.00
6	100 mesh, 100 Mesh, Bulk Sand	4,673.00	5,338.00
6	100 mesh, 100 Mesh, Bulk Sand	8,304.00	13,642.00
6	100 mesh, 100 Mesh, Bulk Sand	7,711.00	21,353.00
6	100 mesh, 100 Mesh, Bulk Sand	13,790.00	35,143.00
6	100 mesh, 100 Mesh, Bulk Sand	16,057.00	51,200.00
6	40/70, PW 40/70, Bulk Sand	8,757.00	60,059.00
6	40/70, PW 40/70, Bulk Sand	17,329.00	77,388.00
6	40/70, PW 40/70, Bulk Sand	23,678.00	101,066.00
6	40/70, PW 40/70, Bulk Sand	31,763.00	132,829.00
6	40/70, PW 40/70, Bulk Sand	31,979.00	164,808.00
6	100 mesh, 100 Mesh, Bulk Sand	5,433.00	171,138.00
6	100 mesh, 100 Mesh, Bulk Sand	8,960.00	180,098.00
6	100 mesh, 100 Mesh, Bulk Sand	9,475.00	189,573.00
6	100 mesh, 100 Mesh, Bulk Sand	16,174.00	205,747.00
6	100 mesh, 100 Mesh, Bulk Sand	542	206,289.00
6	40/70, PW 40/70, Bulk Sand	9,020.00	215,309.00
6	40/70, PW 40/70, Bulk Sand	17,608.00	232,917.00
6	40/70, PW 40/70, Bulk Sand	27,077.00	259,994.00
6	40/70, PW 40/70, Bulk Sand	36,176.00	296,170.00
6	40/70, PW 40/70, Bulk Sand	31,752.00	327,922.00
7	100 mesh, 100 Mesh, Bulk Sand	3,544.00	4,035.00
7	100 mesh, 100 Mesh, Bulk Sand	8,260.00	12,295.00
7	100 mesh, 100 Mesh, Bulk Sand	9,528.00	21,823.00
7	100 mesh, 100 Mesh, Bulk Sand	16,297.00	38,120.00
7	100 mesh, 100 Mesh, Bulk Sand	19,344.00	57,464.00
7	40/70, PW 40/70, Bulk Sand	6,834.00	64,587.00
7	40/70, PW 40/70, Bulk Sand	17,175.00	81,762.00
7	40/70, PW 40/70, Bulk Sand	24,584.00	106,346.00
7	40/70, PW 40/70, Bulk Sand	32,451.00	138,797.00
7	40/70, PW 40/70, Bulk Sand	32,575.00	171,372.00
7	100 mesh, 100 Mesh, Bulk Sand	2,547.00	174,574.00

7	100 mesh, 100 Mesh, Bulk Sand	8,220.00	182,794.00
7	100 mesh, 100 Mesh, Bulk Sand	9,620.00	192,414.00
7	100 mesh, 100 Mesh, Bulk Sand	16,199.00	208,613.00
7	100 mesh, 100 Mesh, Bulk Sand	19,139.00	227,752.00
7	40/70, PW 40/70, Bulk Sand	7,291.00	235,079.00
7	40/70, PW 40/70, Bulk Sand	17,067.00	252,146.00
7	40/70, PW 40/70, Bulk Sand	25,294.00	277,440.00
7	40/70, PW 40/70, Bulk Sand	32,476.00	309,916.00
7	40/70, PW 40/70, Bulk Sand	32,592.00	342,508.00
8	100 mesh, 100 Mesh, Bulk Sand	2,611.00	3,139.00
8	100 mesh, 100 Mesh, Bulk Sand	7,152.00	10,291.00
8	100 mesh, 100 Mesh, Bulk Sand	8,026.00	18,317.00
8	100 mesh, 100 Mesh, Bulk Sand	13,774.00	32,091.00
8	100 mesh, 100 Mesh, Bulk Sand	16,700.00	48,791.00
8	40/70, PW 40/70, Bulk Sand	9,991.00	59,714.00
8	40/70, PW 40/70, Bulk Sand	18,377.00	78,091.00
8	40/70, PW 40/70, Bulk Sand	26,464.00	104,555.00
8	40/70, PW 40/70, Bulk Sand	35,310.00	139,865.00
8	40/70, PW 40/70, Bulk Sand	30,546.00	170,411.00
8	100 mesh, 100 Mesh, Bulk Sand	4,476.00	175,156.00
8	100 mesh, 100 Mesh, Bulk Sand	9,218.00	184,374.00
8	100 mesh, 100 Mesh, Bulk Sand	9,760.00	194,134.00
8	100 mesh, 100 Mesh, Bulk Sand	16,790.00	210,924.00
8	100 mesh, 100 Mesh, Bulk Sand	17,777.00	228,701.00
8	40/70, PW 40/70, Bulk Sand	9,168.00	237,869.00
8	40/70, PW 40/70, Bulk Sand	16,763.00	254,632.00
8	40/70, PW 40/70, Bulk Sand	25,573.00	280,205.00
8	40/70, PW 40/70, Bulk Sand	31,704.00	311,909.00
8	40/70, PW 40/70, Bulk Sand	30,807.00	342,716.00
9	100 mesh, 100 Mesh, Bulk Sand	4,490.00	4,490.00
9	100 mesh, 100 Mesh, Bulk Sand	7,865.00	12,355.00
9	100 mesh, 100 Mesh, Bulk Sand	9,464.00	21,819.00
9	100 mesh, 100 Mesh, Bulk Sand	17,461.00	39,280.00
9	100 mesh, 100 Mesh, Bulk Sand	14,892.00	54,172.00
9	40/70, PW 40/70, Bulk Sand	10,314.00	64,596.00
9	40/70, PW 40/70, Bulk Sand	17,139.00	81,735.00
9	40/70, PW 40/70, Bulk Sand	24,821.00	106,556.00
9	40/70, PW 40/70, Bulk Sand	32,361.00	138,917.00
9	40/70, PW 40/70, Bulk Sand	32,766.00	171,683.00
9	100 mesh, 100 Mesh, Bulk Sand	2,910.00	174,609.00
9	100 mesh, 100 Mesh, Bulk Sand	8,273.00	182,882.00
9	100 mesh, 100 Mesh, Bulk Sand	9,551.00	192,433.00
9	100 mesh, 100 Mesh, Bulk Sand	16,324.00	208,757.00
9	100 mesh, 100 Mesh, Bulk Sand	18,745.00	227,502.00
9	40/70, PW 40/70, Bulk Sand	7,632.00	235,161.00
9	40/70, PW 40/70, Bulk Sand	17,130.00	252,291.00
9	40/70, PW 40/70, Bulk Sand	24,689.00	276,980.00

9	40/70, PW 40/70, Bulk Sand	33,210.00	310,190.00
9	40/70, PW 40/70, Bulk Sand	31,549.00	341,739.00
10	100 mesh, 100 Mesh, Bulk Sand	4,464.00	5,653.00
10	100 mesh, 100 Mesh, Bulk Sand	8,077.00	13,730.00
10	100 mesh, 100 Mesh, Bulk Sand	9,941.00	23,671.00
10	100 mesh, 100 Mesh, Bulk Sand	15,296.00	38,967.00
10	100 mesh, 100 Mesh, Bulk Sand	20,669.00	59,636.00
10	40/70, PW 40/70, Bulk Sand	8,133.00	67,769.00
10	40/70, PW 40/70, Bulk Sand	16,556.00	84,325.00
10	40/70, PW 40/70, Bulk Sand	24,593.00	108,918.00
10	40/70, PW 40/70, Bulk Sand	32,184.00	141,102.00
10	40/70, PW 40/70, Bulk Sand	30,305.00	171,407.00
10	100 mesh, 100 Mesh, Bulk Sand	4,710.00	176,696.00
10	100 mesh, 100 Mesh, Bulk Sand	9,461.00	186,157.00
10	100 mesh, 100 Mesh, Bulk Sand	7,875.00	194,032.00
10	100 mesh, 100 Mesh, Bulk Sand	6,719.00	200,751.00
10	100 mesh, 100 Mesh, Bulk Sand	20,390.00	221,141.00
10	40/70, PW 40/70, Bulk Sand	9,393.00	231,113.00
10	40/70, PW 40/70, Bulk Sand	17,877.00	248,990.00
10	40/70, PW 40/70, Bulk Sand	28,362.00	277,352.00
10	40/70, PW 40/70, Bulk Sand	27,055.00	304,407.00
10	40/70, PW 40/70, Bulk Sand	27,434.00	331,841.00
11	100 mesh, 100 Mesh, Bulk Sand	4,670.00	4,694.00
11	100 mesh, 100 Mesh, Bulk Sand	7,632.00	12,326.00
11	100 mesh, 100 Mesh, Bulk Sand	10,125.00	22,451.00
11	100 mesh, 100 Mesh, Bulk Sand	15,748.00	38,199.00
11	100 mesh, 100 Mesh, Bulk Sand	18,169.00	56,368.00
11	40/70, PW 40/70, Bulk Sand	8,193.00	64,611.00
11	40/70, PW 40/70, Bulk Sand	17,100.00	81,711.00
11	40/70, PW 40/70, Bulk Sand	24,672.00	106,383.00
11	40/70, PW 40/70, Bulk Sand	32,258.00	138,641.00
11	40/70, PW 40/70, Bulk Sand	32,059.00	170,700.00
11	100 mesh, 100 Mesh, Bulk Sand	3,808.00	174,603.00
11	100 mesh, 100 Mesh, Bulk Sand	8,241.00	182,844.00
11	100 mesh, 100 Mesh, Bulk Sand	9,520.00	192,364.00
11	100 mesh, 100 Mesh, Bulk Sand	16,807.00	209,171.00
11	100 mesh, 100 Mesh, Bulk Sand	16,020.00	225,191.00
11	40/70, PW 40/70, Bulk Sand	9,384.00	234,593.00
11	40/70, PW 40/70, Bulk Sand	17,571.00	252,164.00
11	40/70, PW 40/70, Bulk Sand	24,913.00	277,077.00
11	40/70, PW 40/70, Bulk Sand	32,122.00	309,199.00
11	40/70, PW 40/70, Bulk Sand	33,166.00	342,365.00
12	100 mesh, 100 Mesh, Bulk Sand	4,273.00	4,293.00
12	100 mesh, 100 Mesh, Bulk Sand	8,164.00	12,457.00
12	100 mesh, 100 Mesh, Bulk Sand	10,111.00	22,568.00
12	100 mesh, 100 Mesh, Bulk Sand	15,766.00	38,334.00
12	100 mesh, 100 Mesh, Bulk Sand	17,545.00	55,879.00

12	40/70, PW 40/70, Bulk Sand	8,077.00	63,982.00
12	40/70, PW 40/70, Bulk Sand	17,001.00	80,983.00
12	40/70, PW 40/70, Bulk Sand	24,997.00	105,980.00
12	40/70, PW 40/70, Bulk Sand	32,678.00	138,658.00
12	40/70, PW 40/70, Bulk Sand	31,263.00	169,921.00
12	100 mesh, 100 Mesh, Bulk Sand	4,008.00	173,929.00
12	100 mesh, 100 Mesh, Bulk Sand	8,435.00	182,364.00
12	100 mesh, 100 Mesh, Bulk Sand	9,674.00	192,038.00
12	100 mesh, 100 Mesh, Bulk Sand	16,619.00	208,657.00
12	100 mesh, 100 Mesh, Bulk Sand	15,889.00	224,546.00
12	40/70, PW 40/70, Bulk Sand	8,833.00	233,415.00
12	40/70, PW 40/70, Bulk Sand	18,418.00	251,833.00
12	40/70, PW 40/70, Bulk Sand	26,198.00	278,031.00
12	40/70, PW 40/70, Bulk Sand	33,596.00	311,627.00
12	40/70, PW 40/70, Bulk Sand	27,102.00	338,729.00
13	100 mesh, 100 Mesh, Bulk Sand	4,064.00	4,122.00
13	100 mesh, 100 Mesh, Bulk Sand	8,216.00	12,338.00
13	100 mesh, 100 Mesh, Bulk Sand	9,538.00	21,876.00
13	100 mesh, 100 Mesh, Bulk Sand	16,405.00	38,281.00
13	100 mesh, 100 Mesh, Bulk Sand	18,115.00	56,396.00
13	40/70, PW 40/70, Bulk Sand	7,988.00	64,584.00
13	40/70, PW 40/70, Bulk Sand	17,232.00	81,816.00
13	40/70, PW 40/70, Bulk Sand	24,660.00	106,476.00
13	40/70, PW 40/70, Bulk Sand	32,156.00	138,632.00
13	40/70, PW 40/70, Bulk Sand	32,315.00	170,947.00
13	100 mesh, 100 Mesh, Bulk Sand	3,885.00	175,084.00
13	100 mesh, 100 Mesh, Bulk Sand	8,650.00	183,734.00
13	100 mesh, 100 Mesh, Bulk Sand	8,666.00	192,400.00
13	100 mesh, 100 Mesh, Bulk Sand	18,124.00	210,524.00
13	100 mesh, 100 Mesh, Bulk Sand	16,407.00	226,931.00
13	40/70, PW 40/70, Bulk Sand	7,873.00	234,890.00
13	40/70, PW 40/70, Bulk Sand	17,353.00	252,243.00
13	40/70, PW 40/70, Bulk Sand	24,658.00	276,901.00
13	40/70, PW 40/70, Bulk Sand	32,236.00	309,137.00
13	40/70, PW 40/70, Bulk Sand	32,295.00	341,432.00
14	100 mesh, 100 Mesh, Bulk Sand	4,739.00	4,796.00
14	100 mesh, 100 Mesh, Bulk Sand	8,357.00	13,153.00
14	100 mesh, 100 Mesh, Bulk Sand	9,362.00	22,515.00
14	100 mesh, 100 Mesh, Bulk Sand	18,790.00	41,305.00
14	100 mesh, 100 Mesh, Bulk Sand	13,999.00	55,304.00
14	40/70, PW 40/70, Bulk Sand	8,816.00	64,139.00
14	40/70, PW 40/70, Bulk Sand	15,081.00	79,220.00
14	40/70, PW 40/70, Bulk Sand	24,605.00	103,825.00
14	40/70, PW 40/70, Bulk Sand	31,926.00	135,751.00
14	40/70, PW 40/70, Bulk Sand	30,682.00	166,433.00
14	100 mesh, 100 Mesh, Bulk Sand	3,705.00	170,651.00
14	100 mesh, 100 Mesh, Bulk Sand	8,329.00	178,980.00

14	100 mesh, 100 Mesh, Bulk Sand	9,290.00	188,270.00
14	100 mesh, 100 Mesh, Bulk Sand	16,081.00	204,351.00
14	100 mesh, 100 Mesh, Bulk Sand	16,998.00	221,349.00
14	40/70, PW 40/70, Bulk Sand	9,168.00	230,694.00
14	40/70, PW 40/70, Bulk Sand	16,866.00	247,560.00
14	40/70, PW 40/70, Bulk Sand	24,322.00	271,882.00
14	40/70, PW 40/70, Bulk Sand	31,923.00	303,805.00
14	40/70, PW 40/70, Bulk Sand	34,646.00	338,451.00
15	100 mesh, 100 Mesh, Bulk Sand	4,193.00	4,281.00
15	100 mesh, 100 Mesh, Bulk Sand	8,069.00	12,350.00
15	100 mesh, 100 Mesh, Bulk Sand	9,495.00	21,845.00
15	100 mesh, 100 Mesh, Bulk Sand	16,304.00	38,149.00
15	100 mesh, 100 Mesh, Bulk Sand	18,418.00	56,567.00
15	40/70, PW 40/70, Bulk Sand	7,996.00	64,612.00
15	40/70, PW 40/70, Bulk Sand	17,524.00	82,136.00
15	40/70, PW 40/70, Bulk Sand	24,436.00	106,572.00
15	40/70, PW 40/70, Bulk Sand	32,082.00	138,654.00
15	40/70, PW 40/70, Bulk Sand	32,068.00	170,722.00
15	100 mesh, 100 Mesh, Bulk Sand	3,727.00	174,554.00
15	100 mesh, 100 Mesh, Bulk Sand	8,220.00	182,774.00
15	100 mesh, 100 Mesh, Bulk Sand	9,508.00	192,282.00
15	100 mesh, 100 Mesh, Bulk Sand	16,558.00	208,840.00
15	100 mesh, 100 Mesh, Bulk Sand	18,054.00	226,894.00
15	40/70, PW 40/70, Bulk Sand	8,243.00	235,169.00
15	40/70, PW 40/70, Bulk Sand	17,052.00	252,221.00
15	40/70, PW 40/70, Bulk Sand	24,788.00	277,009.00
15	40/70, PW 40/70, Bulk Sand	32,066.00	309,075.00
15	40/70, PW 40/70, Bulk Sand	32,095.00	341,170.00
16	100 mesh, 100 Mesh, Bulk Sand	4,245.00	4,429.00
16	100 mesh, 100 Mesh, Bulk Sand	6,232.00	10,661.00
16	100 mesh, 100 Mesh, Bulk Sand	11,109.00	21,770.00
16	100 mesh, 100 Mesh, Bulk Sand	17,278.00	39,048.00
16	100 mesh, 100 Mesh, Bulk Sand	17,379.00	56,427.00
16	40/70, PW 40/70, Bulk Sand	8,302.00	64,801.00
16	40/70, PW 40/70, Bulk Sand	17,541.00	82,342.00
16	40/70, PW 40/70, Bulk Sand	25,316.00	107,658.00
16	40/70, PW 40/70, Bulk Sand	32,886.00	140,544.00
16	40/70, PW 40/70, Bulk Sand	33,134.00	173,678.00
16	100 mesh, 100 Mesh, Bulk Sand	4,342.00	178,436.00
16	100 mesh, 100 Mesh, Bulk Sand	8,310.00	186,746.00
16	100 mesh, 100 Mesh, Bulk Sand	9,437.00	196,183.00
16	100 mesh, 100 Mesh, Bulk Sand	15,972.00	212,155.00
16	100 mesh, 100 Mesh, Bulk Sand	15,103.00	227,258.00
16	40/70, PW 40/70, Bulk Sand	8,806.00	236,074.00
16	40/70, PW 40/70, Bulk Sand	16,938.00	253,012.00
16	40/70, PW 40/70, Bulk Sand	25,409.00	278,421.00
16	40/70, PW 40/70, Bulk Sand	31,638.00	310,059.00

16	40/70, PW 40/70, Bulk Sand	31,150.00	341,209.00
17	100 mesh, 100 Mesh, Bulk Sand	4,411.00	4,947.00
17	100 mesh, 100 Mesh, Bulk Sand	8,137.00	13,084.00
17	100 mesh, 100 Mesh, Bulk Sand	9,035.00	22,119.00
17	100 mesh, 100 Mesh, Bulk Sand	16,096.00	38,215.00
17	100 mesh, 100 Mesh, Bulk Sand	19,955.00	58,170.00
17	40/70, PW 40/70, Bulk Sand	6,981.00	65,186.00
17	40/70, PW 40/70, Bulk Sand	16,548.00	81,734.00
17	40/70, PW 40/70, Bulk Sand	24,864.00	106,598.00
17	40/70, PW 40/70, Bulk Sand	32,050.00	138,648.00
17	40/70, PW 40/70, Bulk Sand	32,116.00	170,764.00
17	100 mesh, 100 Mesh, Bulk Sand	4,757.00	175,658.00
17	100 mesh, 100 Mesh, Bulk Sand	7,312.00	182,970.00
17	100 mesh, 100 Mesh, Bulk Sand	9,572.00	192,542.00
17	100 mesh, 100 Mesh, Bulk Sand	16,152.00	208,694.00
17	100 mesh, 100 Mesh, Bulk Sand	17,877.00	226,571.00
17	40/70, PW 40/70, Bulk Sand	8,760.00	235,430.00
17	40/70, PW 40/70, Bulk Sand	16,786.00	252,216.00
17	40/70, PW 40/70, Bulk Sand	25,083.00	277,299.00
17	40/70, PW 40/70, Bulk Sand	33,080.00	310,379.00
17	40/70, PW 40/70, Bulk Sand	32,103.00	342,482.00
18	100 mesh, 100 Mesh, Bulk Sand	5,096.00	5,144.00
18	100 mesh, 100 Mesh, Bulk Sand	7,627.00	12,771.00
18	100 mesh, 100 Mesh, Bulk Sand	9,185.00	21,956.00
18	100 mesh, 100 Mesh, Bulk Sand	16,947.00	38,903.00
18	100 mesh, 100 Mesh, Bulk Sand	18,267.00	57,170.00
18	40/70, PW 40/70, Bulk Sand	7,419.00	64,605.00
18	40/70, PW 40/70, Bulk Sand	17,341.00	81,946.00
18	40/70, PW 40/70, Bulk Sand	24,458.00	106,404.00
18	40/70, PW 40/70, Bulk Sand	32,713.00	139,117.00
18	40/70, PW 40/70, Bulk Sand	30,950.00	170,067.00
18	100 mesh, 100 Mesh, Bulk Sand	4,250.00	174,619.00
18	100 mesh, 100 Mesh, Bulk Sand	8,201.00	182,820.00
18	100 mesh, 100 Mesh, Bulk Sand	9,536.00	192,356.00
18	100 mesh, 100 Mesh, Bulk Sand	16,321.00	208,677.00
18	100 mesh, 100 Mesh, Bulk Sand	19,223.00	227,900.00
18	40/70, PW 40/70, Bulk Sand	7,238.00	235,138.00
18	40/70, PW 40/70, Bulk Sand	17,176.00	252,314.00
18	40/70, PW 40/70, Bulk Sand	25,819.00	278,133.00
18	40/70, PW 40/70, Bulk Sand	31,809.00	309,942.00
18	40/70, PW 40/70, Bulk Sand	30,474.00	340,416.00
19	100 mesh, 100 Mesh, Bulk Sand	4,643.00	4,978.00
19	100 mesh, 100 Mesh, Bulk Sand	7,314.00	12,292.00
19	100 mesh, 100 Mesh, Bulk Sand	9,991.00	22,283.00
19	100 mesh, 100 Mesh, Bulk Sand	15,911.00	38,194.00
19	100 mesh, 100 Mesh, Bulk Sand	16,940.00	55,134.00
19	40/70, PW 40/70, Bulk Sand	9,503.00	64,640.00

19	40/70, PW 40/70, Bulk Sand	17,412.00	82,052.00
19	40/70, PW 40/70, Bulk Sand	24,433.00	106,485.00
19	40/70, PW 40/70, Bulk Sand	32,245.00	138,730.00
19	40/70, PW 40/70, Bulk Sand	32,978.00	171,708.00
19	100 mesh, 100 Mesh, Bulk Sand	2,580.00	174,730.00
19	100 mesh, 100 Mesh, Bulk Sand	8,105.00	182,835.00
19	100 mesh, 100 Mesh, Bulk Sand	9,544.00	192,379.00
19	100 mesh, 100 Mesh, Bulk Sand	16,986.00	209,365.00
19	100 mesh, 100 Mesh, Bulk Sand	17,607.00	226,972.00
19	40/70, PW 40/70, Bulk Sand	8,046.00	235,126.00
19	40/70, PW 40/70, Bulk Sand	17,105.00	252,231.00
19	40/70, PW 40/70, Bulk Sand	24,753.00	276,984.00
19	40/70, PW 40/70, Bulk Sand	32,298.00	309,282.00
19	40/70, PW 40/70, Bulk Sand	31,219.00	340,501.00
20	100 mesh, 100 Mesh, Bulk Sand	3,687.00	4,093.00
20	100 mesh, 100 Mesh, Bulk Sand	8,253.00	12,346.00
20	100 mesh, 100 Mesh, Bulk Sand	9,531.00	21,877.00
20	100 mesh, 100 Mesh, Bulk Sand	16,329.00	38,206.00
20	100 mesh, 100 Mesh, Bulk Sand	18,558.00	56,764.00
20	40/70, PW 40/70, Bulk Sand	8,138.00	64,947.00
20	40/70, PW 40/70, Bulk Sand	16,999.00	81,946.00
20	40/70, PW 40/70, Bulk Sand	25,703.00	107,649.00
20	40/70, PW 40/70, Bulk Sand	31,025.00	138,674.00
20	40/70, PW 40/70, Bulk Sand	31,775.00	170,449.00
20	100 mesh, 100 Mesh, Bulk Sand	4,157.00	174,641.00
20	100 mesh, 100 Mesh, Bulk Sand	8,222.00	182,863.00
20	100 mesh, 100 Mesh, Bulk Sand	9,471.00	192,334.00
20	100 mesh, 100 Mesh, Bulk Sand	16,374.00	208,708.00
20	100 mesh, 100 Mesh, Bulk Sand	18,833.00	227,541.00
20	40/70, PW 40/70, Bulk Sand	8,126.00	235,740.00
20	40/70, PW 40/70, Bulk Sand	16,528.00	252,268.00
20	40/70, PW 40/70, Bulk Sand	24,729.00	276,997.00
20	40/70, PW 40/70, Bulk Sand	32,386.00	309,383.00
20	40/70, PW 40/70, Bulk Sand	32,241.00	341,624.00
21	100 mesh, 100 Mesh, Bulk Sand	3,936.00	4,142.00
21	100 mesh, 100 Mesh, Bulk Sand	8,243.00	12,385.00
21	100 mesh, 100 Mesh, Bulk Sand	9,521.00	21,906.00
21	100 mesh, 100 Mesh, Bulk Sand	16,329.00	38,235.00
21	100 mesh, 100 Mesh, Bulk Sand	18,955.00	57,190.00
21	40/70, PW 40/70, Bulk Sand	7,414.00	64,630.00
21	40/70, PW 40/70, Bulk Sand	17,133.00	81,763.00
21	40/70, PW 40/70, Bulk Sand	24,742.00	106,505.00
21	40/70, PW 40/70, Bulk Sand	32,193.00	138,698.00
21	40/70, PW 40/70, Bulk Sand	32,983.00	171,681.00
21	100 mesh, 100 Mesh, Bulk Sand	3,650.00	176,020.00
21	100 mesh, 100 Mesh, Bulk Sand	7,415.00	183,435.00
21	100 mesh, 100 Mesh, Bulk Sand	8,866.00	192,301.00

21	100 mesh, 100 Mesh, Bulk Sand	16,408.00	208,709.00
21	100 mesh, 100 Mesh, Bulk Sand	18,702.00	227,411.00
21	40/70, PW 40/70, Bulk Sand	7,718.00	235,129.00
21	40/70, PW 40/70, Bulk Sand	17,106.00	252,235.00
21	40/70, PW 40/70, Bulk Sand	24,757.00	276,992.00
21	40/70, PW 40/70, Bulk Sand	32,183.00	309,175.00
21	40/70, PW 40/70, Bulk Sand	32,513.00	341,688.00
22	100 mesh, 100 Mesh, Bulk Sand	4,098.00	4,098.00
22	100 mesh, 100 Mesh, Bulk Sand	8,250.00	12,348.00
22	100 mesh, 100 Mesh, Bulk Sand	9,495.00	21,843.00
22	100 mesh, 100 Mesh, Bulk Sand	16,315.00	38,158.00
22	100 mesh, 100 Mesh, Bulk Sand	19,152.00	57,310.00
22	40/70, PW 40/70, Bulk Sand	7,673.00	65,024.00
22	40/70, PW 40/70, Bulk Sand	17,446.00	82,470.00
22	40/70, PW 40/70, Bulk Sand	24,233.00	106,703.00
22	40/70, PW 40/70, Bulk Sand	32,030.00	138,733.00
22	40/70, PW 40/70, Bulk Sand	32,278.00	171,011.00
22	100 mesh, 100 Mesh, Bulk Sand	3,434.00	174,664.00
22	100 mesh, 100 Mesh, Bulk Sand	8,193.00	182,857.00
22	100 mesh, 100 Mesh, Bulk Sand	11,676.00	194,533.00
22	100 mesh, 100 Mesh, Bulk Sand	14,952.00	209,485.00
22	100 mesh, 100 Mesh, Bulk Sand	18,263.00	227,748.00
22	40/70, PW 40/70, Bulk Sand	7,381.00	235,129.00
22	40/70, PW 40/70, Bulk Sand	17,767.00	252,896.00
22	40/70, PW 40/70, Bulk Sand	24,138.00	277,034.00
22	40/70, PW 40/70, Bulk Sand	32,281.00	309,315.00
22	40/70, PW 40/70, Bulk Sand	32,915.00	342,230.00
23	100 mesh, 100 Mesh, Bulk Sand	4,332.00	4,670.00
23	100 mesh, 100 Mesh, Bulk Sand	8,032.00	12,702.00
23	100 mesh, 100 Mesh, Bulk Sand	9,131.00	21,833.00
23	100 mesh, 100 Mesh, Bulk Sand	16,382.00	38,215.00
23	100 mesh, 100 Mesh, Bulk Sand	19,337.00	57,552.00
23	40/70, PW 40/70, Bulk Sand	7,038.00	64,608.00
23	40/70, PW 40/70, Bulk Sand	17,128.00	81,736.00
23	40/70, PW 40/70, Bulk Sand	24,691.00	106,427.00
23	40/70, PW 40/70, Bulk Sand	33,880.00	140,307.00
23	40/70, PW 40/70, Bulk Sand	31,729.00	172,036.00
23	100 mesh, 100 Mesh, Bulk Sand	4,631.00	177,372.00
23	100 mesh, 100 Mesh, Bulk Sand	6,670.00	184,042.00
23	100 mesh, 100 Mesh, Bulk Sand	8,358.00	192,400.00
23	100 mesh, 100 Mesh, Bulk Sand	16,214.00	208,614.00
23	100 mesh, 100 Mesh, Bulk Sand	18,129.00	226,743.00
23	40/70, PW 40/70, Bulk Sand	8,541.00	235,285.00
23	40/70, PW 40/70, Bulk Sand	17,964.00	253,249.00
23	40/70, PW 40/70, Bulk Sand	23,691.00	276,940.00
23	40/70, PW 40/70, Bulk Sand	32,216.00	309,156.00
23	40/70, PW 40/70, Bulk Sand	31,868.00	341,024.00

TOTAL =

7,508,028.00



Actual Wellpath Report

SD WE 15 Federal P9 No. 6H awp 263' - 13869'Proj: 13923'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD WE 15 Fed P9 No. 6H
Area	Lea County, NM	Well	SD WE 15 Federal P9 No. 6H
Field	Jennings / Upper BN SPRN Shale (Lea County, NM)	Wellbore	SD WE 15 Fed P9 No. 6H AWB
Facility	SD WE 15 Fed P9		

WELLPATH DATA (137 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	45.000	0.00	0.00	0.00	0.00	709149.00	377296.00	32°02'07.818"N	103°39'30.219"W	0.00	
32.60	0.000	45.000	32.60	0.00	0.00	0.00	709149.00	377296.00	32°02'07.818"N	103°39'30.219"W	0.00	
263.00	1.500	45.000	262.97	2.13	2.13	2.13	709151.13	377298.13	32°02'07.839"N	103°39'30.194"W	0.65	
358.00	1.200	41.000	357.95	3.75	3.76	3.66	709152.66	377299.76	32°02'07.855"N	103°39'30.176"W	0.33	
449.00	1.500	30.000	448.92	5.50	5.51	4.88	709153.88	377301.51	32°02'07.872"N	103°39'30.162"W	0.43	
540.00	1.300	17.000	539.90	7.52	7.53	5.78	709154.78	377303.53	32°02'07.892"N	103°39'30.152"W	0.41	
637.00	1.300	18.000	636.87	9.61	9.63	6.44	709155.44	377305.63	32°02'07.913"N	103°39'30.144"W	0.02	
708.00	1.560	16.560	707.85	11.30	11.32	6.97	709155.97	377307.32	32°02'07.929"N	103°39'30.137"W	0.37	
799.00	1.590	20.100	798.81	13.67	13.70	7.76	709156.75	377309.70	32°02'07.953"N	103°39'30.128"W	0.11	
890.00	1.630	15.820	889.78	16.10	16.13	8.54	709157.54	377312.13	32°02'07.977"N	103°39'30.119"W	0.14	
979.00	1.830	20.940	978.74	18.65	18.67	9.39	709158.39	377314.67	32°02'08.002"N	103°39'30.109"W	0.28	
1068.00	1.860	22.430	1067.69	21.30	21.33	10.45	709159.45	377317.33	32°02'08.028"N	103°39'30.096"W	0.06	
1156.00	0.960	7.430	1155.66	23.35	23.39	11.09	709160.09	377319.38	32°02'08.048"N	103°39'30.089"W	1.10	
1245.00	0.570	309.760	1244.66	24.38	24.41	10.85	709159.85	377320.41	32°02'08.058"N	103°39'30.091"W	0.91	
1333.00	0.740	306.410	1332.65	25.00	25.02	10.06	709159.06	377321.02	32°02'08.065"N	103°39'30.101"W	0.20	
1422.00	0.960	292.490	1421.64	25.63	25.65	8.91	709157.90	377321.65	32°02'08.071"N	103°39'30.114"W	0.34	
1511.00	0.990	297.070	1510.63	26.27	26.29	7.53	709156.53	377322.29	32°02'08.077"N	103°39'30.130"W	0.09	
1600.00	1.020	286.970	1599.61	26.85	26.87	6.09	709155.09	377322.87	32°02'08.083"N	103°39'30.147"W	0.20	
1688.00	1.170	287.680	1687.60	27.36	27.37	4.48	709153.48	377323.37	32°02'08.088"N	103°39'30.165"W	0.17	
1777.00	1.310	282.320	1776.58	27.85	27.86	2.62	709151.62	377323.86	32°02'08.093"N	103°39'30.187"W	0.20	
1865.00	1.360	281.870	1864.55	28.29	28.29	0.62	709149.62	377324.29	32°02'08.098"N	103°39'30.210"W	0.06	
1953.00	1.130	225.940	1952.54	27.91	27.90	-1.03	709147.97	377323.90	32°02'08.094"N	103°39'30.229"W	1.35	
2042.00	2.320	186.560	2041.50	25.51	25.50	-1.86	709147.14	377321.50	32°02'08.070"N	103°39'30.239"W	1.81	
2131.00	2.920	181.830	2130.40	21.45	21.45	-2.14	709146.86	377317.45	32°02'08.030"N	103°39'30.243"W	0.72	
2220.00	2.970	179.400	2219.29	16.88	16.88	-2.19	709146.81	377312.88	32°02'07.985"N	103°39'30.243"W	0.15	
2309.00	3.160	181.150	2308.16	12.12	12.12	-2.21	709146.79	377308.12	32°02'07.938"N	103°39'30.244"W	0.24	
2398.00	3.270	184.680	2397.02	7.14	7.14	-2.47	709146.53	377303.14	32°02'07.888"N	103°39'30.247"W	0.25	
2487.00	2.620	189.750	2485.90	2.61	2.60	-3.02	709145.98	377298.60	32°02'07.844"N	103°39'30.254"W	0.79	
2576.00	0.890	204.780	2574.86	-0.02	-0.03	-3.66	709145.34	377295.97	32°02'07.818"N	103°39'30.262"W	1.99	
2665.00	0.700	229.630	2663.85	-1.00	-1.01	-4.36	709144.64	377294.99	32°02'07.808"N	103°39'30.270"W	0.44	



Actual Wellpath Report

SD WE 15 Federal P9 No. 6H awp 263' - 13869'Proj: 13923'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD WE 15 Fed P9 No. 6H
Area	Lea County, NM	Well	SD WE 15 Federal P9 No. 6H
Field	Jennings / Upper BN SPRN Shale (Lea County, NM)	Wellbore	SD WE 15 Fed P9 No. 6H AWB
Facility	SD WE 15 Fed P9		

WELLPATH DATA (137 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
2753.00	0.740	249.510	2751.84	-1.54	-1.56	-5.30	709143.70	377294.44	32°02'07.803"N	103°39'30.281"W	0.29	
2842.00	0.920	253.500	2840.83	-1.94	-1.96	-6.53	709142.47	377294.04	32°02'07.799"N	103°39'30.295"W	0.21	
2931.00	1.470	237.000	2929.81	-2.76	-2.79	-8.17	709140.83	377293.21	32°02'07.791"N	103°39'30.314"W	0.72	
3020.00	0.390	279.170	3018.80	-3.33	-3.36	-9.42	709139.58	377292.64	32°02'07.785"N	103°39'30.329"W	1.36	
3109.00	2.320	41.100	3107.78	-1.93	-1.96	-8.54	709140.46	377294.05	32°02'07.799"N	103°39'30.319"W	2.86	
3198.00	3.900	52.250	3196.64	1.27	1.26	-4.96	709144.04	377297.26	32°02'07.830"N	103°39'30.277"W	1.89	
3286.00	4.250	55.650	3284.42	4.93	4.93	0.10	709149.10	377300.93	32°02'07.866"N	103°39'30.218"W	0.48	
3376.00	4.680	53.970	3374.15	8.95	8.97	5.82	709154.82	377304.97	32°02'07.906"N	103°39'30.151"W	0.50	
3464.00	5.100	54.920	3461.83	13.30	13.33	11.92	709160.92	377309.33	32°02'07.949"N	103°39'30.080"W	0.49	
3552.00	5.250	54.850	3549.47	17.84	17.89	18.42	709167.42	377313.89	32°02'07.994"N	103°39'30.004"W	0.17	
3641.00	5.520	52.090	3638.08	22.80	22.87	25.12	709174.12	377318.87	32°02'08.042"N	103°39'29.926"W	0.42	
3729.00	5.650	48.080	3725.66	28.27	28.36	31.69	709180.68	377324.36	32°02'08.096"N	103°39'29.849"W	0.47	
3818.00	5.660	47.440	3814.23	34.15	34.26	38.18	709187.18	377330.26	32°02'08.154"N	103°39'29.773"W	0.07	
3907.00	5.890	51.520	3902.77	39.94	40.07	44.99	709193.98	377336.07	32°02'08.211"N	103°39'29.694"W	0.53	
3995.00	6.180	56.640	3990.29	45.34	45.48	52.48	709201.47	377341.48	32°02'08.264"N	103°39'29.606"W	0.69	
4084.00	6.120	60.200	4078.77	50.31	50.48	60.59	709209.59	377346.47	32°02'08.313"N	103°39'29.512"W	0.43	
4173.00	5.170	64.430	4167.34	54.37	54.56	68.33	709217.33	377350.56	32°02'08.353"N	103°39'29.422"W	1.16	
4261.00	5.080	68.240	4254.99	57.51	57.72	75.52	709224.52	377353.72	32°02'08.384"N	103°39'29.338"W	0.40	
4350.00	5.420	71.130	4343.62	60.31	60.54	83.16	709232.16	377356.54	32°02'08.412"N	103°39'29.249"W	0.48	
4438.00	5.330	70.750	4431.23	62.98	63.23	90.95	709239.95	377359.23	32°02'08.438"N	103°39'29.158"W	0.11	12 1/4 BHI MWD 708' - 4438'
4527.00	5.340	73.380	4519.85	65.50	65.78	98.82	709247.82	377361.78	32°02'08.462"N	103°39'29.066"W	0.27	
4704.00	3.170	43.130	4696.37	71.40	71.71	110.06	709259.06	377367.70	32°02'08.520"N	103°39'28.935"W	1.72	
4880.00	1.250	357.590	4872.24	76.86	77.18	113.31	709262.31	377373.17	32°02'08.574"N	103°39'28.897"W	1.40	
5057.00	1.030	355.780	5049.20	80.38	80.69	113.11	709262.11	377376.69	32°02'08.609"N	103°39'28.899"W	0.13	
5234.00	0.960	351.910	5226.18	83.43	83.75	112.79	709261.78	377379.74	32°02'08.639"N	103°39'28.903"W	0.05	
5411.00	0.850	337.670	5403.16	86.12	86.43	112.08	709261.07	377382.43	32°02'08.666"N	103°39'28.911"W	0.14	
5588.00	0.760	321.830	5580.14	88.26	88.57	110.86	709259.85	377384.56	32°02'08.687"N	103°39'28.925"W	0.14	
5767.00	0.720	311.520	5759.12	89.94	90.25	109.28	709258.27	377386.24	32°02'08.704"N	103°39'28.943"W	0.08	
5944.00	0.530	301.600	5936.11	91.11	91.41	107.75	709256.74	377387.41	32°02'08.716"N	103°39'28.961"W	0.12	
6120.00	0.520	306.340	6112.11	92.01	92.31	106.41	709255.41	377388.31	32°02'08.725"N	103°39'28.976"W	0.03	



Actual Wellpath Report

SD WE 15 Federal P9 No. 6H awp 263' - 13869'Proj: 13923'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD WE 15 Fed P9 No. 6H
Area	Lea County, NM	Well	SD WE 15 Federal P9 No. 6H
Field	Jennings / Upper BN SPRN Shale (Lea County, NM)	Wellbore	SD WE 15 Fed P9 No. 6H AWB
Facility	SD WE 15 Fed P9		

WELLPATH DATA (137 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
6297.00	0.310	324.940	6289.10	92.89	93.18	105.49	709254.49	377389.18	32°02'08.733"N	103°39'28.987"W	0.14	
6474.00	0.260	297.490	6466.10	93.46	93.76	104.86	709253.85	377389.75	32°02'08.739"N	103°39'28.994"W	0.08	
6651.00	0.430	266.860	6643.10	93.62	93.91	103.84	709252.84	377389.90	32°02'08.740"N	103°39'29.006"W	0.14	
6828.00	0.630	243.810	6820.09	93.15	93.44	102.30	709251.30	377389.44	32°02'08.736"N	103°39'29.024"W	0.16	
7006.00	0.620	245.830	6998.08	92.33	92.61	100.55	709249.54	377388.61	32°02'08.728"N	103°39'29.045"W	0.01	
7183.00	0.650	246.220	7175.07	91.54	91.82	98.75	709247.75	377387.81	32°02'08.720"N	103°39'29.065"W	0.02	
7360.00	0.590	248.200	7352.06	90.80	91.07	96.99	709245.99	377387.07	32°02'08.713"N	103°39'29.086"W	0.04	
7537.00	0.670	246.360	7529.05	90.05	90.32	95.20	709244.19	377386.32	32°02'08.706"N	103°39'29.107"W	0.05	
7714.00	0.620	212.670	7706.03	88.84	89.10	93.73	709242.73	377385.10	32°02'08.694"N	103°39'29.124"W	0.21	
7891.00	0.810	197.130	7883.02	86.84	87.10	92.85	709241.84	377383.09	32°02'08.674"N	103°39'29.134"W	0.15	
8068.00	0.650	193.720	8060.01	84.67	84.93	92.24	709241.23	377380.92	32°02'08.652"N	103°39'29.142"W	0.09	
8244.00	0.620	193.210	8236.00	82.77	83.03	91.78	709240.78	377379.03	32°02'08.634"N	103°39'29.147"W	0.02	
8421.00	0.880	192.410	8412.98	80.52	80.77	91.27	709240.27	377376.77	32°02'08.611"N	103°39'29.153"W	0.15	
8489.00	1.080	206.370	8480.97	79.43	79.69	90.88	709239.87	377375.68	32°02'08.601"N	103°39'29.158"W	0.46	
8577.00	8.330	3.950	8568.69	85.06	85.32	90.95	709239.94	377381.31	32°02'08.656"N	103°39'29.157"W	10.61	
8665.00	17.870	5.930	8654.30	104.89	105.15	92.79	709241.78	377401.15	32°02'08.852"N	103°39'29.134"W	10.85	
8754.00	24.010	3.580	8737.39	136.57	136.83	95.33	709244.33	377432.83	32°02'09.166"N	103°39'29.102"W	6.96	
8842.00	31.430	4.890	8815.23	177.35	177.62	98.41	709247.40	377473.61	32°02'09.569"N	103°39'29.063"W	8.46	
8931.00	39.110	3.340	8887.84	228.56	228.84	102.03	709251.02	377524.83	32°02'10.076"N	103°39'29.017"W	8.69	
9020.00	47.740	1.600	8952.42	289.61	289.91	104.59	709253.58	377585.89	32°02'10.680"N	103°39'28.983"W	9.79	
9108.00	59.630	1.410	9004.45	360.36	360.66	106.44	709255.43	377656.65	32°02'11.380"N	103°39'28.957"W	13.51	
9196.00	73.640	358.880	9039.26	440.94	441.24	106.55	709255.54	377737.22	32°02'12.177"N	103°39'28.950"W	16.14	
9233.00	79.490	358.690	9047.86	476.90	477.20	105.78	709254.78	377773.18	32°02'12.533"N	103°39'28.956"W	15.82	
9286.00	86.760	359.790	9054.20	529.48	529.78	105.09	709254.08	377825.76	32°02'13.054"N	103°39'28.960"W	13.87	
9376.00	87.440	359.530	9058.75	619.37	619.66	104.56	709253.55	377915.63	32°02'13.943"N	103°39'28.960"W	0.81	
9464.00	89.630	358.600	9061.00	707.32	707.61	103.12	709252.12	378003.58	32°02'14.813"N	103°39'28.970"W	2.70	
9553.00	90.180	357.450	9061.15	796.28	796.56	100.05	709249.05	378092.52	32°02'15.694"N	103°39'28.999"W	1.43	
9641.00	89.320	355.770	9061.53	884.13	884.40	94.85	709243.84	378180.36	32°02'16.563"N	103°39'29.053"W	2.14	
9730.00	90.680	357.060	9061.53	972.97	973.22	89.28	709238.28	378269.18	32°02'17.443"N	103°39'29.111"W	2.11	
9818.00	91.420	0.640	9059.92	1060.93	1061.17	87.52	709236.51	378357.13	32°02'18.313"N	103°39'29.126"W	4.15	



Actual Wellpath Report

SD WE 15 Federal P9 No. 6H awp 263' - 13869'Proj: 13923'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD WE 15 Fed P9 No. 6H
Area	Lea County, NM	Well	SD WE 15 Federal P9 No. 6H
Field	Jennings / Upper BN SPRN Shale (Lea County, NM)	Wellbore	SD WE 15 Fed P9 No. 6H AWB
Facility	SD WE 15 Fed P9		

WELLPATH DATA (137 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
9907.00	92.590	1.450	9056.81	1149.85	1150.10	89.14	709238.14	378446.05	32°02'19.193"N	103°39'29.100"W	1.60	
9996.00	91.390	0.990	9053.71	1238.77	1239.03	91.03	709240.03	378534.97	32°02'20.073"N	103°39'29.072"W	1.44	
10084.00	90.430	0.480	9052.32	1326.74	1327.01	92.16	709241.16	378622.95	32°02'20.943"N	103°39'29.052"W	1.24	
10173.00	90.180	0.840	9051.84	1415.73	1416.00	93.19	709242.18	378711.94	32°02'21.824"N	103°39'29.034"W	0.49	
10261.00	91.630	1.260	9050.45	1503.70	1503.97	94.80	709243.80	378799.91	32°02'22.694"N	103°39'29.009"W	1.72	
10350.00	92.470	1.530	9047.27	1592.61	1592.89	96.97	709245.96	378888.82	32°02'23.574"N	103°39'28.977"W	0.99	
10438.00	90.770	0.710	9044.78	1680.55	1680.83	98.68	709247.68	378976.76	32°02'24.444"N	103°39'28.951"W	2.14	
10527.00	91.850	359.770	9042.75	1769.52	1769.81	99.06	709248.05	379065.73	32°02'25.325"N	103°39'28.940"W	1.61	8 3/4 BHI MWD 4527' - 10527'
10615.00	89.570	0.150	9041.66	1857.51	1857.79	99.00	709247.99	379153.71	32°02'26.195"N	103°39'28.934"W	2.63	
10704.00	90.310	0.590	9041.75	1946.50	1946.79	99.57	709248.57	379242.71	32°02'27.076"N	103°39'28.921"W	0.97	
10792.00	89.970	0.530	9041.54	2034.50	2034.79	100.43	709249.43	379330.70	32°02'27.947"N	103°39'28.905"W	0.39	
10881.00	90.220	0.350	9041.39	2123.49	2123.78	101.11	709250.11	379419.69	32°02'28.827"N	103°39'28.890"W	0.35	
10969.00	92.400	0.140	9039.38	2211.46	2211.75	101.49	709250.49	379507.66	32°02'29.698"N	103°39'28.880"W	2.49	
11058.00	90.090	359.680	9037.44	2300.43	2300.73	101.35	709250.35	379596.63	32°02'30.578"N	103°39'28.875"W	2.65	
11146.00	89.940	359.580	9037.42	2388.43	2388.72	100.78	709249.78	379684.62	32°02'31.449"N	103°39'28.875"W	0.20	
11235.00	92.160	359.950	9035.79	2477.41	2477.70	100.42	709249.41	379773.60	32°02'32.330"N	103°39'28.873"W	2.53	
11323.00	88.460	359.350	9035.31	2565.39	2565.68	99.88	709248.88	379861.57	32°02'33.200"N	103°39'28.873"W	4.26	
11412.00	87.100	358.720	9038.76	2654.32	2654.60	98.38	709247.38	379950.49	32°02'34.080"N	103°39'28.884"W	1.68	
11500.00	90.150	0.360	9040.87	2742.28	2742.56	97.68	709246.67	380038.44	32°02'34.951"N	103°39'28.885"W	3.93	
11589.00	87.780	359.170	9042.48	2831.25	2831.54	97.31	709246.31	380127.42	32°02'35.831"N	103°39'28.883"W	2.98	
11677.00	89.910	358.670	9044.25	2919.22	2919.50	95.65	709244.65	380215.37	32°02'36.702"N	103°39'28.896"W	2.49	
11766.00	92.190	359.320	9042.62	3008.19	3008.46	94.09	709243.09	380304.33	32°02'37.582"N	103°39'28.908"W	2.66	
11854.00	92.500	359.150	9039.02	3096.11	3096.38	92.92	709241.91	380392.25	32°02'38.452"N	103°39'28.915"W	0.40	
11943.00	93.790	358.660	9034.14	3184.96	3185.23	91.22	709240.22	380481.09	32°02'39.332"N	103°39'28.928"W	1.55	
12031.00	92.370	359.760	9029.41	3272.83	3273.09	90.01	709239.01	380568.95	32°02'40.201"N	103°39'28.936"W	2.04	
12120.00	92.960	0.130	9025.27	3361.73	3361.99	89.92	709238.92	380657.85	32°02'41.081"N	103°39'28.930"W	0.78	
12208.00	91.140	0.220	9022.12	3449.67	3449.93	90.19	709239.19	380745.79	32°02'41.951"N	103°39'28.921"W	2.07	
12296.00	91.170	0.350	9020.35	3537.65	3537.91	90.63	709239.63	380833.76	32°02'42.822"N	103°39'28.909"W	0.15	
12384.00	88.980	359.890	9020.24	3625.64	3625.91	90.82	709239.81	380921.75	32°02'43.692"N	103°39'28.901"W	2.54	
12473.00	88.060	359.500	9022.53	3714.61	3714.88	90.34	709239.34	381010.72	32°02'44.573"N	103°39'28.900"W	1.12	



Actual Wellpath Report

SD WE 15 Federal P9 No. 6H awp 263' - 13869'Proj: 13923'
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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD WE 15 Fed P9 No. 6H
Area	Lea County, NM	Well	SD WE 15 Federal P9 No. 6H
Field	Jennings / Upper BN SPRN Shale (Lea County, NM)	Wellbore	SD WE 15 Fed P9 No. 6H AWB
Facility	SD WE 15 Fed P9		

WELLPATH DATA (137 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
12562.00	88.340	359.320	9025.33	3803.56	3803.83	89.43	709238.42	381099.66	32°02'45.453"N	103°39'28.904"W	0.37	
12650.00	87.690	358.220	9028.38	3891.49	3891.75	87.54	709236.53	381187.59	32°02'46.323"N	103°39'28.920"W	1.45	
12740.00	89.450	0.020	9030.62	3981.45	3981.71	86.16	709235.15	381277.54	32°02'47.214"N	103°39'28.929"W	2.80	
12828.00	89.910	359.470	9031.12	4069.45	4069.70	85.77	709234.76	381365.53	32°02'48.084"N	103°39'28.927"W	0.81	
12916.00	89.720	358.610	9031.40	4157.44	4157.69	84.29	709233.29	381453.51	32°02'48.955"N	103°39'28.938"W	1.00	
13005.00	91.850	359.770	9030.18	4246.42	4246.67	83.03	709232.03	381542.48	32°02'49.836"N	103°39'28.946"W	2.73	
13093.00	91.940	359.030	9027.27	4334.37	4334.61	82.11	709231.11	381630.43	32°02'50.706"N	103°39'28.951"W	0.85	
13182.00	93.120	358.280	9023.34	4423.26	4423.50	80.02	709229.02	381719.31	32°02'51.586"N	103°39'28.968"W	1.57	
13270.00	91.570	0.750	9019.74	4511.17	4511.41	79.28	709228.28	381807.22	32°02'52.456"N	103°39'28.971"W	3.31	
13358.00	91.850	0.560	9017.11	4599.13	4599.37	80.29	709229.28	381895.17	32°02'53.326"N	103°39'28.953"W	0.38	
13447.00	91.850	0.030	9014.24	4688.08	4688.32	80.75	709229.74	381984.12	32°02'54.206"N	103°39'28.941"W	0.60	
13536.00	92.310	359.380	9011.01	4777.02	4777.26	80.29	709229.28	382073.05	32°02'55.086"N	103°39'28.940"W	0.89	
13624.00	94.200	359.570	9006.01	4864.87	4865.11	79.48	709228.48	382160.90	32°02'55.956"N	103°39'28.943"W	2.16	
13712.00	92.560	0.520	9000.83	4952.71	4952.95	79.55	709228.55	382248.74	32°02'56.825"N	103°39'28.935"W	2.15	
13801.00	92.840	0.100	8996.63	5041.61	5041.85	80.03	709229.03	382337.64	32°02'57.705"N	103°39'28.923"W	0.57	
13869.00	94.260	0.390	8992.42	5109.47	5109.72	80.32	709229.32	382405.50	32°02'58.376"N	103°39'28.915"W	2.13	8 3/4 BHI MWD 10615' - 13869'
13923.00	94.260	0.390	8988.41	5163.32	5163.57	80.69	709229.69	382459.35	32°02'58.909"N	103°39'28.907"W	0.00	Projection to TD: 13923'

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SD WE 15 Fed P9 No. 6H BHL rev 2	9018.00	5157.22	89.00	709238.00	382453.00	32°02'58.846"N	103°39'28.811"W	point
SD WE 15 Fed P9 No. 6H IP	9064.45	2388.58	96.59	709245.59	379684.48	32°02'31.448"N	103°39'28.924"W	point



Actual Wellpath Report

SD WE 15 Federal P9 No. 6H awp 263' - 13869'Proj: 13923'
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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD WE 15 Fed P9 No. 6H
Area	Lea County, NM	Well	SD WE 15 Federal P9 No. 6H
Field	Jennings / Upper BN SPRN Shale (Lea County, NM)	Wellbore	SD WE 15 Fed P9 No. 6H AWB
Facility	SD WE 15 Fed P9		

WELLPATH COMPOSITION - Ref Wellbore: SD WE 15 Fed P9 No. 6H AWB Ref Wellpath: SD WE 15 Federal P9 No. 6H awp 263' - 13869'Proj: 13923'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
32.60	637.00	ISCWSA MWD, Rev. 4 (Standard)	Imported Survey 263' - 637'	SD WE 15 Fed P9 No. 6H AWB
637.00	4438.00	BHI NaviTrak (Standard)	12 1/4 BHI MWD 708' - 4438'	SD WE 15 Fed P9 No. 6H AWB
4438.00	10527.00	BHI NaviTrak (Standard)	8 3/4 BHI MWD 4527' - 10527'	SD WE 15 Fed P9 No. 6H AWB
10527.00	13869.00	BHI NaviTrak (Standard)	8 3/4 BHI MWD 10615' - 13869'	SD WE 15 Fed P9 No. 6H AWB
13869.00	13923.00	Blind Drilling (std)	Projection to bit	SD WE 15 Fed P9 No. 6H AWB



Actual Wellpath Report

SD WE 15 Federal P9 No. 6H awp 263' - 13869'Proj: 13923'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Chevron U.S.A. Inc.	Slot	SD WE 15 Fed P9 No. 6H
Area	Lea County, NM	Well	SD WE 15 Federal P9 No. 6H
Field	Jennings / Upper BN SPRN Shale (Lea County, NM)	Wellbore	SD WE 15 Fed P9 No. 6H AWB
Facility	SD WE 15 Fed P9		

COMMENTS

Wellpath general comments

Well: SD WE 15 Federal P9 No. 6H
Field: Jennings/Upper BN SPRN, Shale
Rig: Nabors X30
Location: Lea Co., NM
API: 30-025-43641-00
Latitude: 32° 02' 07.818" N
Longitude: 103° 39' 30.219" W
DF Elevation: 3189.6 feet
Elev. GL: 3157 feet
Proposed Direction: 359.84°
PBHL: 13923 feet
Duration: 04/28/2017-05/26/2017
FSE's: D. Hardeman
SO#: 8499556
12 1/4 BHI MWD 708' - 4438'
8 3/4 BHI MWD 4527' - 10527'
8 3/4 BHI MWD 10615' - 13869'
Projection to TD: 13923'