

# TEKTON WINDSOR, LLC

Location	Windsor, CO, USA(Imported)	Slot	Slot #4
Field	Windsor Project	Well	DIAMOND VALLEY SW 4
Installation	Diamond Valley SW	Wellbore	DIAMOND VALLEY SW 4 #4-6-22-270-6-NH (PWB #2)

Scale 1 cm = 500 ft

East (feet) ->

-8000 -7000 -6000 -5000 -4000 -3000 -2000 -1000 0 1000 2000

North (feet) ^  
2000  
1000  
0  
-1000  
Scale 1 cm = 500 ft

NELSEN

DV 4\_2 - T4

DV 4\_2 - T3

DV 4\_2 - T2

Surface 0.00 N 0.00 E

Tie on - 0.00 Inc, 16.00 MD, 16.00 TVD, 0.00 VS

3DS Kick off Point - 0.00 Inc, 1000.00 MD, 1000.00 TVD, 0.00 VS

End of Build - 6.20 Inc, 1221.52 MD, 1221.09 TVD, -10.59 VS

## WELL PROFILE DATA

Point	MD	Inc	Azi	TVD	North	East	deg/100ft	V. Sect
Tie on	16.00	0.00	0.00	16.00	0.00	0.00	0.00	0.00
KOP	1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00
End of Build	1221.52	6.20	64.45	1221.09	5.17	10.81	2.80	-10.59
End of Hold	6436.66	6.20	64.45	6405.70	248.14	519.19	0.00	-508.70
Target DV 4_2 - T2	7305.95	90.00	269.40	6977.00	268.88	0.58	11.00	10.32
Target DV 4_2 - T3	9442.85	90.00	269.40	6977.00	246.41	-2136.20	0.00	2144.44
End of Turn	9492.45	90.00	270.39	6977.00	246.32	-2185.80	2.00	2193.99
T.D. & Target DV 4_2 -	14162.23	90.00	270.39	6977.00	278.07	-6855.48	0.00	6861.11

Created by admin

Date plotted 14-Mar-2013

Plot reference is DIAMOND VALLEY SW 4 #4-6-22-270-6-NH (PWB #2).

Ref wellpath is DIAMOND VALLEY SW 4 (PWP#1).

Coordinates are in feet reference Slot #4.

True Vertical Depths are reference Rig Datum.

Measured Depths are reference Rig Datum.

Rig Datum: Planned Datum #1

Rig Datum to Mean Sea Level: 4788.00 ft.

Plot North is aligned to GRID North.

End of Hold - 6.20 Inc, 6436.66 MD, 6405.70 TVD, -508.70 VS

DV 4\_2 - T2

3DJ Kick off Point - 90.00 Inc, 9442.85 MD, 6977.00 TVD, 2144.44 VS

DV 4\_2 - T4

S/C Kick off Point - 90.00 Inc, 7305.95 MD, 6977.00 TVD, 10.32 VS

DV 4\_2 - T3

T.D. & End of Hold - 6977.00 TVD, 278.07 N 6855.48 W

-1000 -500 -0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 6500 7000 7500

Scale 1 cm = 250 ft

Vertical Section (feet) ->

Azimuth 272.32 with reference 0.00 N, 0.00 E from Slot #4

True Vertical Depth (feet) <-

Scale 1 cm = 250 ft



SYSDRILL  
Well Design Combined Report  
Wellbore: DIAMOND VALLEY SW 4 #4-6-22-270-6-NH (PWB #2)  
Wellpath: DIAMOND VALLEY SW 4 (PWP#1)

**Wellhead Details**

Name	Northing	Easting	Latitude	Longitude	North	East
Slot #4	1413791.0490	3172116.4009	N40 28 3.3960	W104 52 52.9997	47.36N	0.00E

**Site Details**

Name	Northing	Easting	Coord System Name	North Alignment
Diamond Valley SW	1413743.6897	3172116.4009	CO83-NF on NORTH AMERICAN DATUM 1983 datum	Grid

**Summary Wellpath**

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
16.00	0.00	0.000	16.00	0.00N	0.00E		0.00	1413791.05	3172116.40
1000.00	0.00	0.000	1000.00	0.00N	0.00E	==>	0.00	1413791.05	3172116.40
1221.52	6.20	64.450	1221.09	5.17N	10.81E	2.80	-10.59	1413796.21	3172127.21
6436.66	6.20	64.450	6405.70	248.14N	519.19E	==>	-508.70	1414039.18	3172635.57
7305.95	90.00	269.400	6977.00	268.88N	0.58E	11.00	10.32	1414059.92	3172116.98
9442.85	90.00	269.400	6977.00	246.41N	2136.20W	==>	2144.44	1414037.45	3169980.28
9492.45	90.00	270.390	6977.00	246.32N	2185.80W	2.00	2193.99	1414037.36	3169930.69
14162.23	90.00	270.390	6977.00	278.07N	6855.48W	==>	6861.11	1414069.11	3165261.19

**Interpolated Wellpath**

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
0.00	0.00	0.000	0.00	0.00N	0.00E		0.00	1413791.05	3172116.40
16.00	0.00	0.000	16.00	0.00N	0.00E	==>	0.00	1413791.05	3172116.40
100.00	0.00	0.000	100.00	0.00N	0.00E	==>	0.00	1413791.05	3172116.40
200.00	0.00	0.000	200.00	0.00N	0.00E	==>	0.00	1413791.05	3172116.40
300.00	0.00	0.000	300.00	0.00N	0.00E	==>	0.00	1413791.05	3172116.40
400.00	0.00	0.000	400.00	0.00N	0.00E	==>	0.00	1413791.05	3172116.40
500.00	0.00	0.000	500.00	0.00N	0.00E	==>	0.00	1413791.05	3172116.40
600.00	0.00	0.000	600.00	0.00N	0.00E	==>	0.00	1413791.05	3172116.40
700.00	0.00	0.000	700.00	0.00N	0.00E	==>	0.00	1413791.05	3172116.40
800.00	0.00	0.000	800.00	0.00N	0.00E	==>	0.00	1413791.05	3172116.40
900.00	0.00	0.000	900.00	0.00N	0.00E	==>	0.00	1413791.05	3172116.40
984.00	0.00	0.000	984.00	0.00N	0.00E	==>	0.00	1413791.05	3172116.40
1000.00	0.00	0.000	1000.00	0.00N	0.00E	==>	0.00	1413791.05	3172116.40
1084.00	2.35	64.450	1083.98	0.74N	1.56E	2.80	-1.52	1413791.79	3172117.96
1184.00	5.15	64.450	1183.75	3.56N	7.46E	2.80	-7.31	1413794.61	3172123.86
1221.52	6.20	64.450	1221.09	5.17N	10.81E	2.80	-10.59	1413796.21	3172127.21
1300.00	6.20	64.450	1299.11	8.82N	18.46E	==>	-18.09	1413799.87	3172134.86
1400.00	6.20	64.450	1398.52	13.48N	28.21E	==>	-27.64	1413804.53	3172144.61
1500.00	6.20	64.450	1497.94	18.14N	37.95E	==>	-37.19	1413809.19	3172154.35
1600.00	6.20	64.450	1597.35	22.80N	47.70E	==>	-46.74	1413813.85	3172164.10
1700.00	6.20	64.450	1696.77	27.46N	57.45E	==>	-56.29	1413818.51	3172173.85
1800.00	6.20	64.450	1796.18	32.12N	67.20E	==>	-65.84	1413823.17	3172183.60
1900.00	6.20	64.450	1895.60	36.78N	76.95E	==>	-75.39	1413827.82	3172193.34
2000.00	6.20	64.450	1995.01	41.44N	86.70E	==>	-84.94	1413832.48	3172203.09
2100.00	6.20	64.450	2094.43	46.09N	96.44E	==>	-94.50	1413837.14	3172212.84
2200.00	6.20	64.450	2193.84	50.75N	106.19E	==>	-104.05	1413841.80	3172222.59
2300.00	6.20	64.450	2293.25	55.41N	115.94E	==>	-113.60	1413846.46	3172232.34
2400.00	6.20	64.450	2392.67	60.07N	125.69E	==>	-123.15	1413851.12	3172242.08
2500.00	6.20	64.450	2492.08	64.73N	135.44E	==>	-132.70	1413855.78	3172251.83
2600.00	6.20	64.450	2591.50	69.39N	145.18E	==>	-142.25	1413860.44	3172261.58
2700.00	6.20	64.450	2690.91	74.05N	154.93E	==>	-151.80	1413865.10	3172271.33
2800.00	6.20	64.450	2790.33	78.71N	164.68E	==>	-161.36	1413869.75	3172281.08
2900.00	6.20	64.450	2889.74	83.37N	174.43E	==>	-170.91	1413874.41	3172290.82
3000.00	6.20	64.450	2989.16	88.03N	184.18E	==>	-180.46	1413879.07	3172300.57
3100.00	6.20	64.450	3088.57	92.69N	193.92E	==>	-190.01	1413883.73	3172310.32
3200.00	6.20	64.450	3187.99	97.34N	203.67E	==>	-199.56	1413888.39	3172320.07
3300.00	6.20	64.450	3287.40	102.00N	213.42E	==>	-209.11	1413893.05	3172329.81
3400.00	6.20	64.450	3386.82	106.66N	223.17E	==>	-218.66	1413897.71	3172339.56
3500.00	6.20	64.450	3486.23	111.32N	232.92E	==>	-228.21	1413902.37	3172349.31
3600.00	6.20	64.450	3585.64	115.98N	242.67E	==>	-237.77	1413907.03	3172359.06
3700.00	6.20	64.450	3685.06	120.64N	252.41E	==>	-247.32	1413911.68	3172368.81
3800.00	6.20	64.450	3784.47	125.30N	262.16E	==>	-256.87	1413916.34	3172378.55
3900.00	6.20	64.450	3883.89	129.96N	271.91E	==>	-266.42	1413921.00	3172388.30
4000.00	6.20	64.450	3983.30	134.62N	281.66E	==>	-275.97	1413925.66	3172398.05
4100.00	6.20	64.450	4082.72	139.28N	291.41E	==>	-285.52	1413930.32	3172407.80
4200.00	6.20	64.450	4182.13	143.94N	301.15E	==>	-295.07	1413934.98	3172417.54
4300.00	6.20	64.450	4281.55	148.60N	310.90E	==>	-304.63	1413939.64	3172427.29
4400.00	6.20	64.450	4380.96	153.25N	320.65E	==>	-314.18	1413944.30	3172437.04
4500.00	6.20	64.450	4480.38	157.91N	330.40E	==>	-323.73	1413948.96	3172446.79
4600.00	6.20	64.450	4579.79	162.57N	340.15E	==>	-333.28	1413953.62	3172456.54
4700.00	6.20	64.450	4679.21	167.23N	349.90E	==>	-342.83	1413958.27	3172466.28

All data is in Feet unless otherwise stated  
Coordinates are from Slot MD's are from Rig and TVD's are from Rig ( Planned Datum #1 4788.0ft above Mean Sea Level )  
Vertical Section is from 0.00N 0.00E on azimuth 272.320 degrees  
Bottom hole distance is 6861.11 Feet on azimuth 272.32 degrees from Wellhead  
Calculation method uses Minimum Curvature method  
Prepared by Peterson Energy  
Date Printed: 14-Mar-2013



SYSDRILL  
Well Design Combined Report  
Wellbore: DIAMOND VALLEY SW 4 #4-6-22-270-6-NH (PWB #2)  
Wellpath: DIAMOND VALLEY SW 4 (PWP#1)

Interpolated Wellpath

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
4800.00	6.20	64.450	4778.62	171.89N	359.64E	==>	-352.38	1413962.93	3172476.03
4900.00	6.20	64.450	4878.03	176.55N	369.39E	==>	-361.93	1413967.59	3172485.78
5000.00	6.20	64.450	4977.45	181.21N	379.14E	==>	-371.48	1413972.25	3172495.53
5100.00	6.20	64.450	5076.86	185.87N	388.89E	==>	-381.04	1413976.91	3172505.27
5200.00	6.20	64.450	5176.28	190.53N	398.64E	==>	-390.59	1413981.57	3172515.02
5300.00	6.20	64.450	5275.69	195.19N	408.38E	==>	-400.14	1413986.23	3172524.77
5400.00	6.20	64.450	5375.11	199.85N	418.13E	==>	-409.69	1413990.89	3172534.52
5500.00	6.20	64.450	5474.52	204.50N	427.88E	==>	-419.24	1413995.55	3172544.27
5600.00	6.20	64.450	5573.94	209.16N	437.63E	==>	-428.79	1414000.20	3172554.01
5700.00	6.20	64.450	5673.35	213.82N	447.38E	==>	-438.34	1414004.86	3172563.76
5800.00	6.20	64.450	5772.77	218.48N	457.13E	==>	-447.90	1414009.52	3172573.51
5900.00	6.20	64.450	5872.18	223.14N	466.87E	==>	-457.45	1414014.18	3172583.26
6000.00	6.20	64.450	5971.60	227.80N	476.62E	==>	-467.00	1414018.84	3172593.00
6100.00	6.20	64.450	6071.01	232.46N	486.37E	==>	-476.55	1414023.50	3172602.75
6200.00	6.20	64.450	6170.42	237.12N	496.12E	==>	-486.10	1414028.16	3172612.50
6300.00	6.20	64.450	6269.84	241.78N	505.87E	==>	-495.65	1414032.82	3172622.25
6400.00	6.20	64.450	6369.25	246.44N	515.61E	==>	-505.20	1414037.48	3172632.00
6436.66	6.20	64.450	6405.70	248.14N	519.19E	==>	-508.70	1414039.18	3172635.57
6500.00	2.95	332.250	6468.89	251.07N	521.52E	11.00	-510.92	1414042.10	3172637.90
6600.00	12.62	281.210	6567.92	255.48N	509.57E	11.00	-498.80	1414046.52	3172625.95
6700.00	23.48	275.450	6662.86	259.51N	478.93E	11.00	-468.02	1414050.55	3172595.31
6800.00	34.43	273.230	6750.23	263.01N	430.72E	11.00	-419.71	1414054.04	3172547.11
6900.00	45.40	271.990	6826.81	265.84N	366.71E	11.00	-355.64	1414056.88	3172483.10
7000.00	56.39	271.140	6889.79	267.92N	289.26E	11.00	-278.17	1414058.95	3172405.65
7100.00	67.37	270.490	6936.85	269.15N	201.21E	11.00	-190.14	1414060.19	3172317.61
7200.00	78.36	269.940	6966.27	269.49N	105.80E	11.00	-94.79	1414060.53	3172222.20
7300.00	89.35	269.430	6976.97	268.94N	6.53E	11.00	4.38	1414059.98	3172122.93
7305.95	90.00	269.400	6977.00	268.88N	0.58E	11.00	10.32	1414059.92	3172116.98
7400.00	90.00	269.400	6977.00	267.89N	93.46W	==>	104.25	1414058.93	3172022.94
7500.00	90.00	269.400	6977.00	266.84N	193.46W	==>	204.11	1414057.88	3171922.95
7600.00	90.00	269.400	6977.00	265.79N	293.45W	==>	303.98	1414056.82	3171822.96
7700.00	90.00	269.400	6977.00	264.73N	393.45W	==>	403.85	1414055.77	3171722.97
7800.00	90.00	269.400	6977.00	263.68N	493.44W	==>	503.72	1414054.72	3171622.98
7900.00	90.00	269.400	6977.00	262.63N	593.44W	==>	603.59	1414053.67	3171522.99
8000.00	90.00	269.400	6977.00	261.58N	693.43W	==>	703.46	1414052.62	3171423.00
8100.00	90.00	269.400	6977.00	260.53N	793.43W	==>	803.33	1414051.57	3171323.01
8200.00	90.00	269.400	6977.00	259.48N	893.42W	==>	903.20	1414050.52	3171223.01
8300.00	90.00	269.400	6977.00	258.43N	993.42W	==>	1003.07	1414049.47	3171123.02
8400.00	90.00	269.400	6977.00	257.38N	1093.41W	==>	1102.94	1414048.41	3171023.03
8500.00	90.00	269.400	6977.00	256.32N	1193.40W	==>	1202.81	1414047.36	3170923.04
8600.00	90.00	269.400	6977.00	255.27N	1293.40W	==>	1302.68	1414046.31	3170823.05
8700.00	90.00	269.400	6977.00	254.22N	1393.39W	==>	1402.55	1414045.26	3170723.06
8800.00	90.00	269.400	6977.00	253.17N	1493.39W	==>	1502.42	1414044.21	3170623.07
8900.00	90.00	269.400	6977.00	252.12N	1593.38W	==>	1602.29	1414043.16	3170523.08
9000.00	90.00	269.400	6977.00	251.07N	1693.38W	==>	1702.16	1414042.11	3170423.09
9100.00	90.00	269.400	6977.00	250.02N	1793.37W	==>	1802.03	1414041.06	3170323.10
9200.00	90.00	269.400	6977.00	248.97N	1893.37W	==>	1901.90	1414040.00	3170223.11
9300.00	90.00	269.400	6977.00	247.91N	1993.36W	==>	2001.77	1414038.95	3170123.12
9400.00	90.00	269.400	6977.00	246.86N	2093.35W	==>	2101.64	1414037.90	3170023.13
9442.85	90.00	269.400	6977.00	246.41N	2136.20W	==>	2144.44	1414037.45	3169980.28
9492.45	90.00	270.390	6977.00	246.32N	2185.80W	2.00	2193.99	1414037.36	3169930.69
9500.00	90.00	270.390	6977.00	246.37N	2193.35W	==>	2201.53	1414037.41	3169923.13
9600.00	90.00	270.390	6977.00	247.05N	2293.35W	==>	2301.48	1414038.09	3169823.14
9700.00	90.00	270.390	6977.00	247.73N	2393.35W	==>	2401.42	1414038.77	3169723.15
9800.00	90.00	270.390	6977.00	248.41N	2493.34W	==>	2501.36	1414039.45	3169623.15
9900.00	90.00	270.390	6977.00	249.09N	2593.34W	==>	2601.31	1414040.13	3169523.16
10000.00	90.00	270.390	6977.00	249.77N	2693.34W	==>	2701.25	1414040.81	3169423.16
10100.00	90.00	270.390	6977.00	250.45N	2793.34W	==>	2801.19	1414041.49	3169323.17
10200.00	90.00	270.390	6977.00	251.13N	2893.33W	==>	2901.14	1414042.17	3169223.18
10300.00	90.00	270.390	6977.00	251.81N	2993.33W	==>	3001.08	1414042.85	3169123.18
10400.00	90.00	270.390	6977.00	252.49N	3093.33W	==>	3101.02	1414043.53	3169023.19
10500.00	90.00	270.390	6977.00	253.17N	3193.33W	==>	3200.96	1414044.21	3168923.19
10600.00	90.00	270.390	6977.00	253.85N	3293.33W	==>	3300.91	1414044.89	3168823.20
10700.00	90.00	270.390	6977.00	254.53N	3393.32W	==>	3400.85	1414045.57	3168723.21
10800.00	90.00	270.390	6977.00	255.21N	3493.32W	==>	3500.79	1414046.25	3168623.21
10900.00	90.00	270.390	6977.00	255.89N	3593.32W	==>	3600.74	1414046.93	3168523.22
11000.00	90.00	270.390	6977.00	256.57N	3693.32W	==>	3700.68	1414047.61	3168423.23
11100.00	90.00	270.390	6977.00	257.25N	3793.31W	==>	3800.62	1414048.29	3168323.23
11200.00	90.00	270.390	6977.00	257.93N	3893.31W	==>	3900.57	1414048.97	3168223.24
11300.00	90.00	270.390	6977.00	258.61N	3993.31W	==>	4000.51	1414049.65	3168123.24
11400.00	90.00	270.390	6977.00	259.29N	4093.31W	==>	4100.45	1414050.33	3168023.25
11500.00	90.00	270.390	6977.00	259.97N	4193.30W	==>	4200.40	1414051.01	3167923.26
11600.00	90.00	270.390	6977.00	260.65N	4293.30W	==>	4300.34	1414051.69	3167823.26
11700.00	90.00	270.390	6977.00	261.33N	4393.30W	==>	4400.28	1414052.37	3167723.27
11800.00	90.00	270.390	6977.00	262.01N	4493.30W	==>	4500.22	1414053.05	3167623.27

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Coordinates are from Slot MD's are from Rig and TVD's are from Rig ( Planned Datum #1 4788.0ft above Mean Sea Level )  
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Date Printed: 14-Mar-2013



SYSDRILL  
Well Design Combined Report  
Wellbore: DIAMOND VALLEY SW 4 #4-6-22-270-6-NH (PWB #2)  
Wellpath: DIAMOND VALLEY SW 4 (PWP#1)

**Interpolated Wellpath**

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
11900.00	90.00	270.390	6977.00	262.69N	4593.30W	==>	4600.17	1414053.73	3167523.28
12000.00	90.00	270.390	6977.00	263.37N	4693.29W	==>	4700.11	1414054.41	3167423.29
12100.00	90.00	270.390	6977.00	264.05N	4793.29W	==>	4800.05	1414055.09	3167323.29
12200.00	90.00	270.390	6977.00	264.73N	4893.29W	==>	4900.00	1414055.77	3167223.30
12300.00	90.00	270.390	6977.00	265.41N	4993.29W	==>	4999.94	1414056.45	3167123.30
12400.00	90.00	270.390	6977.00	266.09N	5093.28W	==>	5099.88	1414057.13	3167023.31
12500.00	90.00	270.390	6977.00	266.77N	5193.28W	==>	5199.83	1414057.81	3166923.32
12600.00	90.00	270.390	6977.00	267.45N	5293.28W	==>	5299.77	1414058.49	3166823.32
12700.00	90.00	270.390	6977.00	268.13N	5393.28W	==>	5399.71	1414059.17	3166723.33
12800.00	90.00	270.390	6977.00	268.81N	5493.27W	==>	5499.66	1414059.85	3166623.34
12900.00	90.00	270.390	6977.00	269.49N	5593.27W	==>	5599.60	1414060.53	3166523.34
13000.00	90.00	270.390	6977.00	270.17N	5693.27W	==>	5699.54	1414061.21	3166423.35
13100.00	90.00	270.390	6977.00	270.85N	5793.27W	==>	5799.48	1414061.89	3166323.35
13200.00	90.00	270.390	6977.00	271.53N	5893.27W	==>	5899.43	1414062.57	3166223.36
13300.00	90.00	270.390	6977.00	272.21N	5993.26W	==>	5999.37	1414063.25	3166123.37
13400.00	90.00	270.390	6977.00	272.89N	6093.26W	==>	6099.31	1414063.93	3166023.37
13500.00	90.00	270.390	6977.00	273.57N	6193.26W	==>	6199.26	1414064.61	3165923.38
13600.00	90.00	270.390	6977.00	274.25N	6293.26W	==>	6299.20	1414065.28	3165823.38
13700.00	90.00	270.390	6977.00	274.93N	6393.25W	==>	6399.14	1414065.96	3165723.39
13800.00	90.00	270.390	6977.00	275.61N	6493.25W	==>	6499.09	1414066.64	3165623.40
13900.00	90.00	270.390	6977.00	276.29N	6593.25W	==>	6599.03	1414067.32	3165523.40
14000.00	90.00	270.390	6977.00	276.97N	6693.25W	==>	6698.97	1414068.00	3165423.41
14100.00	90.00	270.390	6977.00	277.65N	6793.24W	==>	6798.92	1414068.68	3165323.41
14162.23	90.00	270.390	6977.00	278.07N	6855.48W	==>	6861.11	1414069.11	3165261.19

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Wellpath: DIAMOND VALLEY SW 4 (PWP#1)

Targets

Name	North[ft]	East[ft]	TVD[ft]	Latitude	Longitude	Northing	Easting	Last Revised
DV 4_2 - T2	268.88N	0.58E	6977.00	N40 28 6.0528	W104 52 52.9680	1414059.92	3172116.98	8-Mar-2013
DV 4_2 - T3	246.41N	2136.20W	6977.00	N40 28 5.9772	W104 53 20.6160	1414037.45	3169980.28	8-Mar-2013
DV 4_2 - T4	278.07N	6855.48W	6977.00	N40 28 6.6068	W104 54 21.6720	1414069.11	3165261.19	8-Mar-2013

Survey Tool Program

Reference	Survey Name	MD[ft]	TVD[ft]	Survey Tool	Error Model
5106	Planned	14162.23	6977.00	WdW Rate Gyro	Standard

Notes

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Ellipse separations are reported ONLY if BOTH wells have uncertainty data  
Only Depth and Magnetic Reference Field error terms are correlated across tie points  
Cutoff is calculated on CENTRE to CENTRE distance

Summary data uses Closest Approach clearance calculation for all minima  
Hole size/Casings ARE included  
Hole size/Casings are NOT subtracted from Centre-Centre distance  
Confidence limit of 95.00% / 2.80 SD.

#### Wellbore

Name	Created	Last Revised
DIAMOND VALLEY SW 4 #4-6-22-270-6-NH (PWB #2)	8-Mar-2013	14-Mar-2013

#### Well

Name	Government ID	Last Revised
DIAMOND VALLEY SW 4		12-Mar-2013

#### Slot

Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Slot #4	1413791.0490	3172116.4009	N40 28 3.3960	W104 52 52.9997	47.36N	0.00E

#### Installation

Name	Easting	Northing	Coord System Name	North Alignment
Diamond Valley SW	3172116.4009	1413743.6897	CO83-NF on NORTH AMERICAN DATUM 1983 datum	Grid

#### Field

Name	Easting	Northing	Coord System Name	North Alignment
Windsor Project	3162710.0707	1407271.6545	CO83-NF on NORTH AMERICAN DATUM 1983 datum	Grid

#### Clearance Summary

Offset WellName	Offset Wellbore	Offset Slot	Offset Structure	Separation [ft]	MD[ft]	Diverging From[ft]	Ellipse Separation [ft]	Ellipse MD[ft]	Clearance Factor	Clearance MD[ft]
DIAMOND VALLEY SW 8-2-22	DIAMOND VALLEY SW 5 #4-6-22-270-6-CH (PWB #2)	Slot #5	Diamond Valley SW	14.57	885.42	14162.23	13.15	901.83	2.74	14162.23
DIAMOND VALLEY SW 3	DIAMOND VALLEY SW 3 #4-7-22-270-6-NH (PWB #2)	Slot #3	Diamond Valley SW	18.22	803.40	9481.22	16.91	852.61	2.69	14162.23
DIAMOND VALLEY SW 6	DIAMOND VALLEY SW 6 #4-6-22-270-6-NH (PWB #2)	Slot #6	Diamond Valley SW	29.28	1000.25	14162.23	27.69	1000.25	2.69	14162.23
DIAMOND VALLEY SW 2	DIAMOND VALLEY SW 2 #4-7-22-270-6-CH (PWB #2)	Slot #2	Diamond Valley SW	32.79	787.00	9481.22	31.53	819.81	4.44	14162.23
DIAMOND VALLEY SW 9-5-22	DIAMOND VALLEY SW 1 #4-7-22-270-6-NH (PWB #2)	Slot #1	Diamond Valley SW	47.36	816.00	9481.22	46.08	819.81	5.38	14162.23
DIAMOND VALLEY SW 7	DIAMOND VALLEY SW 7 #4-5-22-270-6-NH (PWB #2)	Slot #7	Diamond Valley SW	47.44	590.15	9516.00	46.52	590.15	5.37	14162.23
DIAMOND VALLEY	DIAMOND VALLEY SW	Slot #8	Diamond Valley SW	62.00	590.15	9516.00	61.07	590.15	7.02	14162.23

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**Clearance Summary**

Offset WellName	Offset Wellbore	Offset Slot	Offset Structure	Separation [ft]	MD[ft]	Diverging From[ft]	Ellipse Separation [ft]	Ellipse MD[ft]	Clearance Factor	Clearance MD[ft]
SW 8	8 #4-5-22-270-6 -CH (PWB #2)									
DIAMOND VALLEY SW 9	DIAMOND VALLEY SW 9 #4-5-22-270-6 -NH (PWB #2)	Slot #9	Diamond Valley SW	80.20	616.00	14162.23	79.23	616.00	8.06	14162.23
Diamond Valley 22-23-18	Diamond Valley 22-23-18 (AWB)	Diamond Valley 22-23-18	Great Western Diamond Valley	176.37	6769.47	6769.47	169.72	6769.47	25.69	6692.51
Diamond Valley 22-34	Diamond Valley 22-34 (AWB)	Diamond Valley 22-34	Great Western Diamond Valley	820.90	6462.85	6462.85	813.86	6462.85	115.96	6516.00
Diamond Valley 22-22-13	Diamond Valley 22-22-13 (AWB)	Diamond Valley 22-22-13	Great Western Diamond Valley	908.54	3848.24	6860.69	905.36	3848.24	200.50	8464.16
Kodak 1 #7-8-21-27 0-4-NH	Kodak 1 #7-8-21-270-4 -NH (PWB)	Slot #1	Kodak	989.97	14140.02	14140.02	877.06	14156.42	8.77	14156.42
Diamond Valley 22-33	Diamond Valley 22-33 (AWB)	Diamond Valley 22-33	Great Western Diamond Valley	1035.18	6516.00	6516.00	1029.25	6516.00	174.64	6528.47
Great Western 27-21-3	Great Western 27-21-3 (AWB)	Great Western 27-21-3	Great Western Diamond Valley	1119.11	5652.63	5652.63	1113.05	5652.63	166.23	6516.00
Diamond Valley 22-54	Diamond Valley 22-54 (AWB)	Diamond Valley 22-54	Great Western Diamond Valley	1131.63	6495.66	6495.66	1126.08	6495.66	202.27	6594.08
Kodak 2 #7-0-28-27 0-4-CH	Kodak 2 #7-0-28-270-4 -CH (PWB)	Slot #2	Kodak	1170.11	14140.02	14140.02	1058.40	14156.42	10.47	14156.42
Kodak 3 #7-0-28-27 0-4-NH	Kodak 3 #7-0-28-270-4 -NH (PWB)	Slot #3	Kodak	1319.85	14140.02	14140.02	1207.00	14156.42	11.69	14156.42
Diamond Valley 22-32-12	Diamond Valley 22-32-12 (AWB)	Diamond Valley 22-32-12	Great Western Diamond Valley	1628.93	3695.10	6516.00	1625.84	3695.10	337.83	6561.28
Kodak 4 #7-1-28-27 0-4-NH	Kodak 4 #7-1-28-270-4 -NH (PWB)	Slot #4	Kodak	1649.75	14140.02	14140.02	1536.95	14156.42	14.62	14162.23
Great Western 27-31-2	Great Western 27-31-2 (AWB)	Great Western 27-31-2	Great Western Diamond Valley	1657.10	6462.85	6462.85	1650.08	6462.85	234.59	6516.00
HILLSIDE 11	HILLSIDE 11	Slot #11	Hillside	1663.22	14162.23	14162.23	1565.73	14162.23	17.06	14162.23
#0-7-28-00 0-4-CH	#0-7-28-000-4 -CH (PWB)									
HILLSIDE 10	HILLSIDE 10	Slot #10	Hillside	1704.83	14162.23	14162.23	1616.59	14162.23	19.32	14162.23
#8-7-29-00 0-4-NH	#8-7-29-000-4 -NH (PWB)									
W Great Western #27-21	W Great Western #27-21 (AWB)	Great Western #27-21	Great Western 66N67W	1786.65	7529.51	7529.51	1780.26	7529.51	187.48	8874.27
W Great Western #27-11	W Great Western #27-11 (AWB)	Great Western #27-11	Great Western 66N67W	1814.09	8853.86	8853.86	1798.72	8874.27	101.54	9563.24
Kodak 5 #7-1-28-27 0-4-CH	Kodak 5 #7-1-28-270-4 -CH (PWB)	Slot #5	Kodak	1823.96	9727.29	9727.29	1712.10	14156.42	16.23	14162.23
HILLSIDE 9	HILLSIDE 9	Slot #9	Hillside	1846.11	14162.23	14162.23	1753.86	14162.23	19.94	13992.38
#7-7-29-00 0-4-NH	#7-7-29-000-4 -NH (PWB)									

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**Clearance Summary**

Offset WellName	Offset Wellbore	Offset Slot	Offset Structure	Separation [ft]	MD[ft]	Diverging From[ft]	Ellipse Separation [ft]	Ellipse MD[ft]	Clearance Factor	Clearance MD[ft]
HILLSIDE 7 #7-7-29-00 0-4-CH Diamond Valley 22-44	HILLSIDE 7 #7-7-29-000-4 -CH (PWB)	Slot #7	Hillside	1937.51	14162.23	14162.23	1867.18	14162.23	27.55	14162.23
Diamond Valley 22-44	Diamond Valley 22-44 (AWB)	Diamond Valley 22-44	Great Western Diamond Valley	1948.23	6479.25	6479.25	1942.03	6479.25	311.79	6594.08
Diamond Valley 22-43	Diamond Valley 22-43 (AWB)	Diamond Valley 22-43	Great Western Diamond Valley	1973.63	3444.48	6495.66	1970.63	3444.48	381.30	6659.70
Kodak 6 #7-1-28-27 0-4-NH	Kodak 6 #7-1-28-270-4 -NH (PWB)	Slot #6	Kodak	1979.66	14140.02	14140.02	1866.88	14156.42	17.54	14162.23
HILLSIDE 8 #7-7-29-00 0-4-NH	HILLSIDE 8 #7-7-29-000-4 -NH (PWB)	Slot #8	Hillside	2030.38	14162.23	14162.23	1923.95	14162.23	19.08	14162.23
Great Western 27-31-8	Great Western 27-31-8 (AWB)	Great Western 27-31-8	Great Western Diamond Valley	2053.63	3050.78	3050.78	2050.57	3067.18	263.43	9563.24
HILLSIDE 5 #6-7-29-00 0-4-NH	HILLSIDE 5 #6-7-29-000-4 -NH (PWB)	Slot #5	Hillside	2252.32	14162.23	14162.23	2133.18	14162.23	18.90	14162.23
Great Western 27-41-10	Great Western 27-41-10 (AWB)	Great Western 27-41-10	Great Western Diamond Valley	2280.25	216.00	6462.85	2280.09	229.25	497.57	6516.00
Great Western 27-41-1	Great Western 27-41-1 (AWB)	Great Western 27-41-1	Great Western Diamond Valley	2297.26	216.00	6479.25	2297.10	229.25	422.50	6594.08
Kodak 7 #7-2-28-27 0-4-NH	Kodak 7 #7-2-28-270-4 -NH (PWB)	Slot #7	Kodak	2309.59	14140.02	14140.02	2196.83	14162.23	20.47	14162.23
Kodak 8 #7-2-28-27 0-4-CH	Kodak 8 #7-2-28-270-4 -CH (PWB)	Slot #8	Kodak	2463.73	622.96	9464.82	2369.24	14162.23	22.04	14162.23
Kodak 9 #7-2-28-27 0-4-NH	Kodak 9 #7-2-28-270-4 -NH (PWB)	Slot #9	Kodak	2478.16	622.96	9528.08	2477.19	622.96	23.39	14162.23
W Great Western #27-52	W Great Western #27-52 (AWB)	Great Western #27-52	Great Western 66N67W	2479.45	8189.88	8189.88	2469.22	8201.70	157.61	9760.09
Kodak 10 #7-3-28-27 0-4-NH	Kodak 10 #7-3-28-270-4 -NH (PWB)	Slot #10	Kodak	2492.44	622.96	9433.99	2491.46	622.96	26.31	14162.23
Kodak 11 #7-3-28-27 0-4-CH	Kodak 11 #7-3-28-270-4 -CH (PWB)	Slot #11	Kodak	2506.85	622.96	9255.76	2505.87	622.96	27.86	14162.23
HILLSIDE 6 #6-7-29-00 0-4-CH	HILLSIDE 6 #6-7-29-000-4 -CH (PWB)	Slot #6	Hillside	2509.80	14162.23	14162.23	2379.70	14162.23	19.29	14162.23
Kodak 12 #7-3-28-27 0-4-NH	Kodak 12 #7-3-28-270-4 -NH (PWB)	Slot #12	Kodak	2521.22	622.96	9284.93	2520.25	622.96	29.23	14162.23
Kodak 13 #7-4-28-27 0-4-NH	Kodak 13 #7-4-28-270-4 -NH (PWB)	Slot #13	Kodak	2535.65	622.96	9221.00	2534.68	622.96	32.14	14162.23
Kodak 14 #7-4-28-27 0-4-CH	Kodak 14 #7-4-28-270-4 -CH (PWB)	Slot #14	Kodak	2550.04	622.96	9185.95	2549.06	622.96	33.67	14162.23
Kodak 15 #7-4-28-27 0-4-NH	Kodak 15 #7-4-28-270-4 -NH (PWB)	Slot #15	Kodak	2564.49	622.96	9186.95	2563.52	622.96	35.04	14162.23
HILLSIDE 3 #5-7-29-00 0-4-NH	HILLSIDE 3 #5-7-29-000-4 -NH (PWB)	Slot #3	Hillside	2626.41	14162.23	14162.23	2492.90	14162.23	19.67	14162.23
HILLSIDE 2	HILLSIDE 2 #5-7-29-000-4	Slot #2	Hillside	3055.24	14162.23	14162.23	2911.82	14162.23	21.30	14162.23

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**Clearance Summary**

Offset WellName	Offset Wellbore	Offset Slot	Offset Structure	Separation [ft]	MD[ft]	Diverging From[ft]	Ellipse Separation [ft]	Ellipse MD[ft]	Clearance Factor	Clearance MD[ft]
#5-7-29-00 0-4-CH HILLSIDE 4	-CH (PWB)									
#5-7-29-00 0-4-NH W Great Western #27-12 W Great Western #27-22 Poudre #25-28	HILLSIDE 4 #5-7-29-000-4 -NH (PWB) W Great Western #27-12 (AWB) W Great Western #27-22 (AWB) Poudre #25-28 (AWB)	Slot #4	Hillside	3125.02	14162.23	14162.23	2979.93	14162.23	21.54	14162.23
Great Western 27-13	W #12 Great Western 27-13 (AWB)	Great Western #27-13	Great Western 66N67W Great Western 66N67W Poudre (Kerr-McGee Oil & Gas)	3137.22	8846.23	8846.23	3121.86	8874.27	141.50	10662.33
Poudre #11-28	Poudre #11-28 (AWB)	Poudre #11-28	Great Western 66N67W Great Western 66N67W Poudre (Kerr-McGee Oil & Gas)	3216.99	1000.25	7343.33	3216.20	1000.25	225.36	10645.92
Poudre #10-28	Poudre #10-28 (AWB)	Poudre #10-28	Poudre (Kerr-McGee Oil & Gas)	3919.09	12074.53	12074.53	3857.72	12122.30	53.54	13844.74
W Great Western #27-23	W Great Western #27-23 (AWB)	Great Western #27-23	Great Western (Great Western Oil & Gas)	4462.14	8832.26	8832.26	4446.85	8874.27	164.09	11876.24
Poudre #23-28	Poudre #23-28 (AWB)	Poudre #23-28	Poudre (Kerr-McGee Oil & Gas)	4478.29	12637.52	12637.52	4419.36	12663.64	69.11	14162.23
Poudre #19-28	Poudre #19-28 (AWB)	Poudre #19-28	Poudre (Kerr-McGee Oil & Gas)	4483.84	11375.82	11375.82	4417.40	11433.32	57.76	13155.76
W Great Western #27-53	W Great Western #27-53 (AWB)	Great Western #27-53	Great Western (Great Western Oil & Gas)	4504.94	7562.16	7562.16	4498.39	7578.34	215.74	11843.43
W Great Western #27-14	W Great Western #27-14 (AWB)	Great Western #27-14	Poudre (Kerr-McGee Oil & Gas)	5128.23	12062.40	12062.40	5074.46	12116.00	80.39	14162.23
Poudre #15-28	Poudre #15-28 (AWB)	Poudre #15-28	Poudre (Kerr-McGee Oil & Gas)	5132.63	13271.27	13271.27	5058.77	13303.40	65.96	14162.23
Poudre #14-28	Poudre #14-28 (AWB)	Poudre #14-28	Great Western (Great Western Oil & Gas)	5138.86	8202.02	8202.02	5128.47	8234.50	193.59	12384.77
CENTER POINT 5	CENTER POINT 5	Slot #5	Great Western (Great Western Oil & Gas)	5484.62	50.00	8850.59	5484.56	180.04	177.28	13237.78
#8-1-32-18 0-4-NH Poudre #36-28	#8-1-32-180-4 -NH (PWB) Poudre #36-28 (AWB)	Poudre #36-28	Great Western (Great Western Oil & Gas)	5780.07	11367.71	11367.71	5716.03	11400.51	81.79	13188.57
CENTER POINT 7	CENTER POINT 7	Slot #7	Poudre (Kerr-McGee Oil & Gas)	5865.08	12616.06	12616.06	5810.93	12663.64	91.33	14162.23
#0-1-33-18 0-4-NH CENTER POINT 8	#0-1-33-180-4 -NH (PWB) CENTER POINT 8	Slot #8	Center Point	6221.12	14162.23	14162.23	6148.42	14162.23	85.58	14162.23
#1-0-33-09 0-4-NH CENTER POINT 6	#1-0-33-090-4 -NH (PWB) CENTER POINT 6	Slot #6	Center Point	6379.43	11925.45	11925.45	6322.04	11958.26	98.67	14162.23
#1-0-33-09 0-4-CH RAINDANCE CE 7	#1-0-33-090-4 -CH (PWB) RAINDANCE 7	Slot #7	Center Point	6415.96	14162.23	14162.23	6344.69	14162.23	90.03	14162.23
#1-0-32-09	#1-0-32-090-4		Raindance	6499.03	9844.71	14162.23	6441.24	14162.23	89.92	14162.23
				6549.05	14162.23	14162.23	6477.75	14162.23	91.85	14162.23
				6580.96	14162.23	14162.23	6473.70	14162.23	61.36	14162.23

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SYSDRILL  
Closest Approach + Clearance Factor Summary Report  
Wellbore: DIAMOND VALLEY SW 4 #4-6-22-270-6-NH (PWB #2)  
Wellpath: DIAMOND VALLEY SW 4 (PWP#1)

**Clearance Summary**

Offset WellName	Offset Wellbore	Offset Slot	Offset Structure	Separation [ft]	MD[ft]	Diverging From[ft]	Ellipse Separation [ft]	Ellipse MD[ft]	Clearance Factor	Clearance MD[ft]
0-4-NH RAINDAN CE 8	-NH (PWB) RAINDANCE 8	Slot #8	Raindance	6636.23	14162.23	14162.23	6528.72	14162.23	61.73	14162.23
#1-0-32-09 0-4-CH CENTER POINT 4	#1-0-32-090-4 -CH (PWB) CENTER POINT 4	Slot #4	Center Point	6659.44	14162.23	14162.23	6588.17	14162.23	93.43	14162.23
#1-0-33-09 0-4-NH RAINDAN CE 9	#1-0-33-090-4 -NH (PWB) RAINDANCE 9	Slot #9	Raindance	6797.83	14162.23	14162.23	6689.95	14162.23	63.01	14162.23
#1-0-32-09 0-4-NH CENTER POINT 3	#1-0-32-090-4 -NH (PWB) CENTER POINT 3	Slot #3	Center Point	6829.49	14162.23	14162.23	6759.35	14162.23	97.37	14162.23
#1-1-33-09 0-4-NH RANCHO WATER VALLEY 9	#1-1-33-090-4 -NH (PWB) RANCHO WATER VALLEY 9	Slot #09	Rancho Water Valley	6879.07	9546.84	9546.84	6839.06	9516.00	73.38	14162.23
#8-7-33-00 0-4-CH RANCHO WATER VALLEY 8	#8-7-33-000-4 -CH (PWB) RANCHO WATER VALLEY 8	Slot #08	Rancho Water Valley	6884.95	9481.22	9481.22	6854.75	9497.63	112.68	14162.23
#8-7-33-00 0-4-NH CENTER POINT 1	#8-7-33-000-4 -NH (PWB) CENTER POINT 1	Slot #1	Center Point	6960.02	14162.23	14162.23	6889.60	14162.23	98.83	14162.23
#1-1-33-09 0-4-CH RAINDAN CE 2	#1-1-33-090-4 -CH (PWB) RAINDANCE 2	Slot #2	Raindance	7070.18	14162.23	14162.23	6819.10	14162.23	28.16	14162.23
#1-1-32-09 0-4-NH CENTER POINT 2	#1-1-32-090-4 -NH CENTER POINT 2	Slot #2	Center Point	7087.93	14162.23	14162.23	7018.82	14162.23	102.55	14162.23
#1-1-33-09 0-4-NH RAINDAN CE 3	#1-1-33-090-4 -NH (PWB) RAINDANCE 3	Slot #3	Raindance	7232.05	14162.23	14162.23	6980.26	14162.23	28.72	14162.23
#1-1-32-09 0-4-CH RAINDAN CE 4	#1-1-32-090-4 -CH (PWB) RAINDANCE 4	Slot #4	Raindance	7394.67	14162.23	14162.23	7141.97	14162.23	29.26	14162.23
#1-1-32-09 0-4-NH HILLSIDE 14	#1-1-32-090-4 -NH (PWB) HILLSIDE 14 #2-1-33-090-4 -NH (PWB)	Slot #14	Hillside	7578.73	9831.78	14162.23	7494.55	9891.33	89.55	9924.14
#2-1-33-09 0-4-NH RAINDAN CE 5	#2-1-33-090-4 -NH (PWB) RAINDANCE 5	Slot #5	Raindance	7719.35	14162.23	14162.23	7465.54	14162.23	30.41	14162.23
#1-2-32-09 0-4-NH HILLSIDE 15	#1-2-32-090-4 -NH (PWB) HILLSIDE 15 #2-1-33-090-4 -CH (PWB)	Slot #15	Hillside	7722.81	14162.23	14162.23	7645.78	14162.23	91.53	9924.14
#2-1-33-09 0-4-CH HILLSIDE 18	HILLSIDE 18 #2-1-33-090-4 -NH (PWB)	Slot #18	Hillside	7876.26	14162.23	14162.23	7799.35	14162.23	93.57	9924.14
#2-1-33-09 0-4-NH RAINDAN CE 6	#2-1-33-090-4 -NH (PWB) RAINDANCE 6	Slot #6	Raindance	7886.71	14162.23	14162.23	7632.41	14162.23	31.01	14162.23
#1-2-32-09 0-4-CH PAVISTMA 12	#1-2-32-090-4 -CH (PWB) PAVISTMA 12	Slot #12	Pavistma	8014.40	14162.23	14162.23	7916.08	14162.23	81.51	14162.23
#1-2-32-09 0-4-NH HILLSIDE 2-4-32	#1-2-32-090-4 -NH (PWB) HILLSIDE 2-4-32 (PWB)	HILLSIDE 2-4-32	Hillside	8025.65	14162.23	14162.23	7948.08	14162.23	103.47	14162.23
HILLSIDE 17	HILLSIDE 17 #3-1-33-090-4	Slot #17	Hillside	8105.48	14162.23	14162.23	8030.68	14162.23	97.26	9924.14

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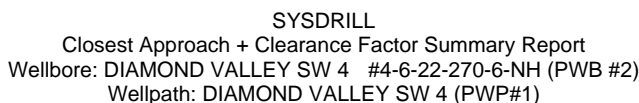


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Wellpath: DIAMOND VALLEY SW 4 (PWP#1)

**Clearance Summary**

Offset WellName	Offset Wellbore	Offset Slot	Offset Structure	Separation [ft]	MD[ft]	Diverging From[ft]	Ellipse Separation [ft]	Ellipse MD[ft]	Clearance Factor	Clearance MD[ft]
#3-1-33-09 0-4-NH PAVISTMA 11	-NH (PWB) PAVISTMA 11	Slot #11	Pavistma	8341.51	14162.23	14162.23	8242.80	14162.23	84.50	14162.23
#1-3-32-09 0-4-NH PAVISTMA 10	#1-3-32-090-4 -NH (PWB) PAVISTMA 10	Slot #10	Pavistma	8403.66	9825.71	9825.71	8295.79	9907.73	77.50	9924.14
#1-3-32-09 0-8-CH FRYE FARMS 12	#1-3-32-090-8 -CH (PWB) FRYE FARMS 12	Slot #12	Frye Farms	8568.92	9825.71	9825.71	8495.23	9907.73	114.62	14162.23
#1-3-33-09 0-4-NH RAINANCE CE 1	#1-3-33-090-4 -NH (PWB) RAINANCE 1 #1-1-32 (PWB)	Slot #1	Raindance	8625.24	14162.23	14162.23	8569.24	14162.23	154.01	14162.23
#1-1-32 PAVISTMA 9	PAVISTMA 9 #1-3-32-090-4 -NH (PWB)	Slot #9	Pavistma	8668.86	14162.23	14162.23	8569.82	14162.23	87.53	14162.23
#1-3-32-09 0-4-NH FRYE FARMS 11	FRYE FARMS 11 #1-4-33-090-4 -NH (PWB)	Slot #11	Frye Farms	8898.93	9825.71	9825.71	8825.41	9907.73	119.39	14162.23
#1-4-33-09 0-4-NH PAVISTMA 8	#1-4-33-090-4 -NH (PWB) PAVISTMA 8	Slot #8	Pavistma	8996.41	14162.23	14162.23	8897.02	14162.23	90.52	14162.23
#1-3-32-09 0-4-NH PAVISTMA 7	#1-3-32-090-4 -NH (PWB) PAVISTMA 7	Slot #7	Pavistma	9063.34	9816.30	9816.30	8955.59	9874.92	83.96	9891.33
#1-4-32-09 0-8-CH FRYE FARMS 10	#1-4-32-090-8 -CH (PWB) FRYE FARMS 10	Slot #10	Frye Farms	9279.79	9776.50	9776.50	9206.45	9858.52	124.46	14162.23
#1-4-33-09 0-4-NH PAVISTMA 6	#1-4-33-090-4 -NH (PWB) PAVISTMA 6	Slot #6	Pavistma	9402.99	14162.23	14162.23	9302.89	14162.23	93.94	14162.23
#1-4-32-09 0-4-NH FRYE FARMS 9	#1-4-32-090-4 -NH (PWB) FRYE FARMS 9	Slot #9	Frye Farms	9608.47	9696.63	9696.63	9535.28	9792.90	128.50	14162.23
#1-5-33-09 0-4-NH FRYE FARMS 13	#1-5-33-090-4 -NH (PWB) FRYE FARMS 13	Slot #13	Frye Farms	9771.85	9661.67	9661.67	9697.84	9743.69	129.53	14162.23
#5-5-32-09 0-6-CH PAVISTMA 4-2-32	#5-5-32-090-6 -CH (PWB) PAVISTMA 4-2-32 (AWB)	PAVISTMA 4-2-32	Pavistma	9835.85	14162.23	14162.23	9768.27	14162.23	145.54	14162.23
FRYE FARMS 8	FRYE FARMS 8	Slot #8	Frye Farms	9937.15	9618.55	9618.55	9864.08	9710.88	132.61	14162.23
#1-5-33-09 0-4-NH Pavistma South 1	#1-5-33-090-4 -NH (PWB) Pavistma South 1	Slot #1	Pavistma South	10017.60	14162.23	14162.23	9915.77	14162.23	98.38	14162.23
#1-5-32-09 0-4-NH PAVISTMA 5-3-32	#1-5-32-090-4 -NH (PWB) PAVISTMA 5-3-32 (AWB)	PAVISTMA 5-3-32	Pavistma	10145.02	14162.23	14162.23	10066.76	14162.23	129.64	14162.23
Pavistma South 2	Pavistma South 2	Slot #2	Pavistma South	10202.24	14162.23	14162.23	10099.74	14162.23	99.54	14162.23
#1-5-32-09 0-4-CH PAVISTMA 5	#1-5-32-090-4 -CH (PWB) PAVISTMA 5	Slot #5	Pavistma	10203.75	14162.23	14162.23	10101.24	14162.23	99.54	14162.23
#1-5-32-09 0-4-NH FRYE FARMS 7	#1-5-32-090-4 -NH (PWB) FRYE FARMS 7	Slot #7	Frye Farms	10265.86	9546.84	9546.84	10192.90	9628.86	137.11	14162.23
#1-6-33-09 0-4-NH RANCHO WATER	#1-6-33-090-4 -NH (PWB) RANCHO WATER	Slot #13	Rancho Water Valley	10418.29	9530.44	9530.44	10389.37	9616.00	103.52	14162.23

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**Clearance Summary**

Offset WellName	Offset Wellbore	Offset Slot	Offset Structure	Separation [ft]	MD[ft]	Diverging From[ft]	Ellipse Separation [ft]	Ellipse MD[ft]	Clearance Factor	Clearance MD[ft]
FRYE FARMS #9-7-32	FRYE FARMS #9-7-32 (AWB)	FRYE FARMS #9-7-32	Frye Farms	11845.33	14162.23	14162.23	11772.19	14162.23	161.96	14162.23
RANCHO WATER VALLEY #2-6-4	RANCHO WATER VALLEY #2-6-4 (AWB)	Slot #03	Rancho Water Valley	11848.85	16.00	10662.33	11848.66	98.02	122.97	14162.23
RANCHO WATER VALLEY 4 #7-1-4-270-4-NH	RANCHO WATER VALLEY 4 #7-1-4-270-4-NH (PWB)	Slot #04	Rancho Water Valley	11851.34	1000.25	8972.69	11849.56	1000.25	51.47	14162.23
RANCHO WATER VALLEY 5 #7-2-4-270-4-NH	RANCHO WATER VALLEY 5 #7-2-4-270-4-NH (PWB)	Slot #05	Rancho Water Valley	11853.85	1000.25	9029.13	11852.07	1000.25	54.02	14162.23
FRYE FARMS #9-5-32	FRYE FARMS #9-5-32 (AWB)	FRYE FARMS #9-5-32	Frye Farms	11964.39	14162.23	14162.23	11889.63	14162.23	160.02	14162.23
Lind #13-32	Lind #13-32 (AWB)	Lind #13-32	Lind (Anadarko)	12120.72	14162.23	14162.23	12045.00	14162.23	160.09	14162.23
Anderson #1	Anderson #1 (AWB)	Anderson #1	Anderson (J.K. Wadley)	12754.68	14162.23	14162.23	12697.69	14162.23	223.78	14162.23