

TEKTON WINDSOR, LLC

Location	Windsor, CO, USA	Slot	Slot #4
Field	Windsor Project	Well	DIAMOND VALLEY SW 4
Installation	Diamond Valley SW	Wellbore	DIAMOND VALLEY SW 4 #3-6-22-270-6-NH (PWB)

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

Scale 1 cm = 250 ft
-500
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
6500
7000
7500
True Vertical Depth (feet)

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

3DS Kick off Point - 0.00 Inc, 1016.00 MD, 1016.00 TVD, 0.00 VS

End of Build - 7.82 Inc, 1295.15 MD, 1294.29 TVD, -14.36 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	1016.00	0.00	0.00	1016.00	0.00	0.00	0.00	0.00
End of Build	1295.15	7.82	53.06	1294.29	11.43	15.19	2.80	-14.36
End of Hold	6391.59	7.82	53.06	6343.38	427.96	569.16	0.00	-537.79
Target DV 4 - T1	7354.48	90.00	269.41	6977.00	473.62	-0.85	10.00	34.02
Target DV 4 - T2	9491.36	90.00	269.41	6977.00	451.52	-2137.62	0.00	2163.99
End of Turn	9539.36	90.00	270.37	6977.00	451.42	-2185.62	2.00	2211.87
T.D. & Target DV 4 - T3	14210.67	90.00	270.37	6977.00	481.39	-6856.84	0.00	6873.72

End of Hold - 7.82 Inc, 6391.59 MD, 6343.38 TVD, -537.79 VS

S/C Kick off Point - 90.00 Inc, 7354.48 MD, 6977.00 TVD, 34.02 VS

T.D. & End of Hold - 6977.00 TVD, 481.39 N 6856.84 W

DV 4 - T2

DV 4 - T1

3DJ Kick off Point - 90.00 Inc, 9491.36 MD, 6977.00 TVD, 2163.99 VS

DV 4 - T3

-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 274.02 with reference 0.00 N, 0.00 E from Slot #4

Created by admin
Date plotted 7-Jan-2013
Plot reference is DIAMOND VALLEY SW 4 #3-6-22-270-6-NH (PWB).
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.



SYSDRILL
Wellpath Report
Wellbore: DIAMOND VALLEY SW 4 #3-6-22-270-6-NH (PWB)
Wellpath: DIAMOND VALLEY SW 4 (PWP#1)

Wellbore

Name	Created	Last Revised
DIAMOND VALLEY SW 4 #3-6-22-270-6-NH (PWB)	12-Nov-2012	12-Nov-2012

Well

Name	Government ID	Last Revised
DIAMOND VALLEY SW 4		12-Nov-2012

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

Wellpath Report

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]
0.00	0.00	0.000	0.00	0.00N	0.00E		0.00
16.00	0.00	0.000	16.00	0.00N	0.00E	==>	0.00
100.00	0.00	0.000	100.00	0.00N	0.00E	==>	0.00
200.00	0.00	0.000	200.00	0.00N	0.00E	==>	0.00
300.00	0.00	0.000	300.00	0.00N	0.00E	==>	0.00
400.00	0.00	0.000	400.00	0.00N	0.00E	==>	0.00
500.00	0.00	0.000	500.00	0.00N	0.00E	==>	0.00
600.00	0.00	0.000	600.00	0.00N	0.00E	==>	0.00
700.00	0.00	0.000	700.00	0.00N	0.00E	==>	0.00
800.00	0.00	0.000	800.00	0.00N	0.00E	==>	0.00
900.00	0.00	0.000	900.00	0.00N	0.00E	==>	0.00
1000.00	0.00	0.000	1000.00	0.00N	0.00E	==>	0.00
1016.00	0.00	0.000	1016.00	0.00N	0.00E	==>	0.00
1100.00	2.35	53.060	1099.98	1.04N	1.38E	2.80	-1.30
1200.00	5.15	53.060	1199.75	4.97N	6.61E	2.80	-6.24
1295.15	7.82	53.060	1294.29	11.43N	15.19E	2.80	-14.36
1300.00	7.82	53.060	1299.09	11.82N	15.72E	==>	-14.86
1400.00	7.82	53.060	1398.16	19.99N	26.59E	==>	-25.13
1500.00	7.82	53.060	1497.23	28.17N	37.46E	==>	-35.40
1600.00	7.82	53.060	1596.30	36.34N	48.33E	==>	-45.67
1700.00	7.82	53.060	1695.37	44.51N	59.20E	==>	-55.94
1800.00	7.82	53.060	1794.44	52.69N	70.07E	==>	-66.21
1900.00	7.82	53.060	1893.52	60.86N	80.94E	==>	-76.48
2000.00	7.82	53.060	1992.59	69.03N	91.81E	==>	-86.75
2100.00	7.82	53.060	2091.66	77.21N	102.68E	==>	-97.02
2200.00	7.82	53.060	2190.73	85.38N	113.55E	==>	-107.29
2300.00	7.82	53.060	2289.80	93.55N	124.42E	==>	-117.56
2400.00	7.82	53.060	2388.87	101.73N	135.29E	==>	-127.83
2500.00	7.82	53.060	2487.94	109.90N	146.16E	==>	-138.10
2600.00	7.82	53.060	2587.01	118.07N	157.03E	==>	-148.37
2700.00	7.82	53.060	2686.08	126.24N	167.90E	==>	-158.64
2800.00	7.82	53.060	2785.15	134.42N	178.77E	==>	-168.91
2900.00	7.82	53.060	2884.22	142.59N	189.64E	==>	-179.18
3000.00	7.82	53.060	2983.30	150.76N	200.51E	==>	-189.46
3100.00	7.82	53.060	3082.37	158.94N	211.38E	==>	-199.73
3200.00	7.82	53.060	3181.44	167.11N	222.25E	==>	-210.00
3300.00	7.82	53.060	3280.51	175.28N	233.12E	==>	-220.27
3400.00	7.82	53.060	3379.58	183.46N	243.99E	==>	-230.54
3500.00	7.82	53.060	3478.65	191.63N	254.85E	==>	-240.81
3600.00	7.82	53.060	3577.72	199.80N	265.72E	==>	-251.08
3700.00	7.82	53.060	3676.79	207.98N	276.59E	==>	-261.35
3800.00	7.82	53.060	3775.86	216.15N	287.46E	==>	-271.62
3900.00	7.82	53.060	3874.93	224.32N	298.33E	==>	-281.89
4000.00	7.82	53.060	3974.01	232.49N	309.20E	==>	-292.16
4100.00	7.82	53.060	4073.08	240.67N	320.07E	==>	-302.43
4200.00	7.82	53.060	4172.15	248.84N	330.94E	==>	-312.70
4300.00	7.82	53.060	4271.22	257.01N	341.81E	==>	-322.97
4400.00	7.82	53.060	4370.29	265.19N	352.68E	==>	-333.24

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Vertical Section is from 0.00N 0.00E on azimuth 274.020 degrees
Bottom hole distance is 6873.72 Feet on azimuth 274.02 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Peterson Energy
Date Printed: 7-Jan-2013



SYSDRILL
Wellpath Report
Wellbore: DIAMOND VALLEY SW 4 #3-6-22-270-6-NH (PWB)
Wellpath: DIAMOND VALLEY SW 4 (PWP#1)

Wellpath Report

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]
4500.00	7.82	53.060	4469.36	273.36N	363.55E	==>	-343.51
4600.00	7.82	53.060	4568.43	281.53N	374.42E	==>	-353.78
4700.00	7.82	53.060	4667.50	289.71N	385.29E	==>	-364.06
4800.00	7.82	53.060	4766.57	297.88N	396.16E	==>	-374.33
4900.00	7.82	53.060	4865.64	306.05N	407.03E	==>	-384.60
5000.00	7.82	53.060	4964.71	314.23N	417.90E	==>	-394.87
5100.00	7.82	53.060	5063.79	322.40N	428.77E	==>	-405.14
5200.00	7.82	53.060	5162.86	330.57N	439.64E	==>	-415.41
5300.00	7.82	53.060	5261.93	338.74N	450.51E	==>	-425.68
5400.00	7.82	53.060	5361.00	346.92N	461.38E	==>	-435.95
5500.00	7.82	53.060	5460.07	355.09N	472.25E	==>	-446.22
5600.00	7.82	53.060	5559.14	363.26N	483.12E	==>	-456.49
5700.00	7.82	53.060	5658.21	371.44N	493.99E	==>	-466.76
5800.00	7.82	53.060	5757.28	379.61N	504.86E	==>	-477.03
5900.00	7.82	53.060	5856.35	387.78N	515.73E	==>	-487.30
6000.00	7.82	53.060	5955.42	395.96N	526.60E	==>	-497.57
6100.00	7.82	53.060	6054.50	404.13N	537.47E	==>	-507.84
6200.00	7.82	53.060	6153.57	412.30N	548.34E	==>	-518.11
6300.00	7.82	53.060	6252.64	420.48N	559.21E	==>	-528.38
6391.59	7.82	53.060	6343.38	427.96N	569.16E	==>	-537.79
6400.00	7.16	49.030	6351.71	428.65N	570.01E	10.00	-538.59
6500.00	6.50	314.930	6451.26	436.75N	570.71E	10.00	-538.72
6600.00	15.26	286.750	6549.42	444.57N	554.05E	10.00	-521.56
6700.00	24.96	279.470	6643.22	451.85N	520.55E	10.00	-487.63
6800.00	34.83	276.120	6729.82	458.39N	471.22E	10.00	-437.96
6900.00	44.74	274.120	6806.57	463.98N	407.56E	10.00	-374.07
7000.00	54.69	272.710	6871.15	468.44N	331.51E	10.00	-297.89
7100.00	64.64	271.620	6921.59	471.66N	245.37E	10.00	-211.74
7200.00	74.60	270.690	6956.37	473.52N	151.77E	10.00	-118.23
7300.00	84.57	269.850	6974.42	473.97N	53.54E	10.00	-20.22
7354.48	90.00	269.410	6977.00	473.62N	0.85W	10.00	34.02
7400.00	90.00	269.410	6977.00	473.15N	46.37W	==>	79.40
7500.00	90.00	269.410	6977.00	472.11N	146.37W	==>	179.07
7600.00	90.00	269.410	6977.00	471.08N	246.36W	==>	278.75
7700.00	90.00	269.410	6977.00	470.04N	346.36W	==>	378.43
7800.00	90.00	269.410	6977.00	469.01N	446.35W	==>	478.10
7900.00	90.00	269.410	6977.00	467.98N	546.35W	==>	577.78
8000.00	90.00	269.410	6977.00	466.94N	646.34W	==>	677.46
8100.00	90.00	269.410	6977.00	465.91N	746.34W	==>	777.13
8200.00	90.00	269.410	6977.00	464.87N	846.33W	==>	876.81
8300.00	90.00	269.410	6977.00	463.84N	946.33W	==>	976.49
8400.00	90.00	269.410	6977.00	462.80N	1046.32W	==>	1076.16
8500.00	90.00	269.410	6977.00	461.77N	1146.31W	==>	1175.84
8600.00	90.00	269.410	6977.00	460.74N	1246.31W	==>	1275.52
8700.00	90.00	269.410	6977.00	459.70N	1346.30W	==>	1375.19
8800.00	90.00	269.410	6977.00	458.67N	1446.30W	==>	1474.87
8900.00	90.00	269.410	6977.00	457.63N	1546.29W	==>	1574.55
9000.00	90.00	269.410	6977.00	456.60N	1646.29W	==>	1674.22
9100.00	90.00	269.410	6977.00	455.56N	1746.28W	==>	1773.90
9200.00	90.00	269.410	6977.00	454.53N	1846.28W	==>	1873.58
9300.00	90.00	269.410	6977.00	453.50N	1946.27W	==>	1973.25
9400.00	90.00	269.410	6977.00	452.46N	2046.27W	==>	2072.93
9491.36	90.00	269.410	6977.00	451.52N	2137.62W	==>	2163.99
9500.00	90.00	269.580	6977.00	451.44N	2146.26W	2.00	2172.61
9539.36	90.00	270.370	6977.00	451.42N	2185.62W	2.00	2211.87
9600.00	90.00	270.370	6977.00	451.81N	2246.26W	==>	2272.39
9700.00	90.00	270.370	6977.00	452.45N	2346.26W	==>	2372.18
9800.00	90.00	270.370	6977.00	453.09N	2446.26W	==>	2471.98
9900.00	90.00	270.370	6977.00	453.74N	2546.25W	==>	2571.78
10000.00	90.00	270.370	6977.00	454.38N	2646.25W	==>	2671.58
10100.00	90.00	270.370	6977.00	455.02N	2746.25W	==>	2771.37
10200.00	90.00	270.370	6977.00	455.66N	2846.25W	==>	2871.17
10300.00	90.00	270.370	6977.00	456.30N	2946.25W	==>	2970.97
10400.00	90.00	270.370	6977.00	456.94N	3046.24W	==>	3070.77
10500.00	90.00	270.370	6977.00	457.59N	3146.24W	==>	3170.56
10600.00	90.00	270.370	6977.00	458.23N	3246.24W	==>	3270.36
10700.00	90.00	270.370	6977.00	458.87N	3346.24W	==>	3370.16
10800.00	90.00	270.370	6977.00	459.51N	3446.24W	==>	3469.95
10900.00	90.00	270.370	6977.00	460.15N	3546.23W	==>	3569.75
11000.00	90.00	270.370	6977.00	460.79N	3646.23W	==>	3669.55
11100.00	90.00	270.370	6977.00	461.43N	3746.23W	==>	3769.35
11200.00	90.00	270.370	6977.00	462.08N	3846.23W	==>	3869.14
11300.00	90.00	270.370	6977.00	462.72N	3946.22W	==>	3968.94
11400.00	90.00	270.370	6977.00	463.36N	4046.22W	==>	4068.74
11500.00	90.00	270.370	6977.00	464.00N	4146.22W	==>	4168.54

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Vertical Section is from 0.00N 0.00E on azimuth 274.020 degrees
Bottom hole distance is 6873.72 Feet on azimuth 274.02 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Peterson Energy
Date Printed: 7-Jan-2013



SYSDRILL
Wellpath Report
Wellbore: DIAMOND VALLEY SW 4 #3-6-22-270-6-NH (PWB)
Wellpath: DIAMOND VALLEY SW 4 (PWP#1)

Wellpath Report

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]
11600.00	90.00	270.370	6977.00	464.64N	4246.22W	==>	4268.33
11700.00	90.00	270.370	6977.00	465.28N	4346.22W	==>	4368.13
11800.00	90.00	270.370	6977.00	465.92N	4446.21W	==>	4467.93
11900.00	90.00	270.370	6977.00	466.57N	4546.21W	==>	4567.73
12000.00	90.00	270.370	6977.00	467.21N	4646.21W	==>	4667.52
12100.00	90.00	270.370	6977.00	467.85N	4746.21W	==>	4767.32
12200.00	90.00	270.370	6977.00	468.49N	4846.21W	==>	4867.12
12300.00	90.00	270.370	6977.00	469.13N	4946.20W	==>	4966.91
12400.00	90.00	270.370	6977.00	469.77N	5046.20W	==>	5066.71
12500.00	90.00	270.370	6977.00	470.42N	5146.20W	==>	5166.51
12600.00	90.00	270.370	6977.00	471.06N	5246.20W	==>	5266.31
12700.00	90.00	270.370	6977.00	471.70N	5346.20W	==>	5366.10
12800.00	90.00	270.370	6977.00	472.34N	5446.19W	==>	5465.90
12900.00	90.00	270.370	6977.00	472.98N	5546.19W	==>	5565.70
13000.00	90.00	270.370	6977.00	473.62N	5646.19W	==>	5665.50
13100.00	90.00	270.370	6977.00	474.26N	5746.19W	==>	5765.29
13200.00	90.00	270.370	6977.00	474.91N	5846.19W	==>	5865.09
13300.00	90.00	270.370	6977.00	475.55N	5946.18W	==>	5964.89
13400.00	90.00	270.370	6977.00	476.19N	6046.18W	==>	6064.69
13500.00	90.00	270.370	6977.00	476.83N	6146.18W	==>	6164.48
13600.00	90.00	270.370	6977.00	477.47N	6246.18W	==>	6264.28
13700.00	90.00	270.370	6977.00	478.11N	6346.18W	==>	6364.08
13800.00	90.00	270.370	6977.00	478.75N	6446.17W	==>	6463.87
13900.00	90.00	270.370	6977.00	479.40N	6546.17W	==>	6563.67
14000.00	90.00	270.370	6977.00	480.04N	6646.17W	==>	6663.47
14100.00	90.00	270.370	6977.00	480.68N	6746.17W	==>	6763.27
14200.00	90.00	270.370	6977.00	481.32N	6846.17W	==>	6863.06
14210.67	90.00	270.370	6977.00	481.39N	6856.84W	==>	6873.72

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Vertical Section is from 0.00N 0.00E on azimuth 274.020 degrees
Bottom hole distance is 6873.72 Feet on azimuth 274.02 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Peterson Energy
Date Printed: 7-Jan-2013



SYSDRILL
Wellpath Report
Wellbore: DIAMOND VALLEY SW 4 #3-6-22-270-6-NH (PWB)
Wellpath: DIAMOND VALLEY SW 4 (PWP#1)

Targets

Name	North[ft]	East[ft]	TVD[ft]	Latitude	Longitude	Easting	Northing	Last Revised
DV 4 - T1	473.62N	0.85W	6977.00	N40 28 8.0760	W104 52 52.9680	3172115.55	1414264.65	19-Oct-2012
DV 4 - T2	451.52N	2137.62W	6977.00	N40 28 8.0040	W104 53 20.6160	3169978.87	1414242.55	19-Oct-2012
DV 4 - T3	481.39N	6856.84W	6977.00	N40 28 8.6160	W104 54 21.6720	3165259.82	1414272.42	19-Oct-2012

Survey Tool Program

Reference	Survey Name	MD[ft]	TVD[ft]	Survey Tool	Error Model
9155	Planned	14210.67	6977.00	WdW Rate Gyro	Standard

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SYSDRILL
Closest Approach + Clearance Factor Summary Report
Wellbore: DIAMOND VALLEY SW 4 #3-6-22-270-6-NH (PWB)
Wellpath: DIAMOND VALLEY SW 4 (PWP#1)

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 #3-6-22-270-6-NH (PWB)	12-Nov-2012	12-Nov-2012

Well

Name	Government ID	Last Revised
DIAMOND VALLEY SW 4		12-Nov-2012

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 8-2-22 (PWB)	Slot #5	Diamond Valley SW	14.34	721.52	8852.15	12.93	737.78	9.83	787.00
DIAMOND VALLEY SW 8-2-22	DIAMOND VALLEY SW 5	Slot #5	Diamond Valley SW	14.57	590.15	9543.78	13.36	590.15	2.74	14210.67
DIAMOND VALLEY SW 3	#3-6-22-270-6 -CH (PWB) DIAMOND VALLEY SW 3	Slot #3	Diamond Valley SW	17.62	937.89	14205.63	16.14	937.89	2.67	14205.63
DIAMOND VALLEY SW 6	#3-6-22-270-6 -NH (PWB) DIAMOND VALLEY SW 6 (PWB)	Slot #6	Diamond Valley SW	29.28	590.15	14210.67	28.35	590.15	2.70	14210.67
DIAMOND VALLEY SW 2	DIAMOND VALLEY SW 2	Slot #2	Diamond Valley SW	32.78	869.02	14205.63	31.21	885.42	4.41	14205.63
DIAMOND VALLEY SW 2	#3-7-22-270-6 -CH (PWB) DIAMOND VALLEY SW 8-4-22 (PWB)	Slot #2	Diamond Valley SW	32.79	1000.25	7548.41	31.02	1000.25	18.13	1049.46
DIAMOND VALLEY SW 9-5-22	DIAMOND VALLEY SW 1	Slot #1	Diamond Valley SW	47.36	787.00	14189.23	46.10	819.81	5.37	14210.67
DIAMOND VALLEY SW 7	#3-7-22-270-6 -NH (PWB) DIAMOND VALLEY SW 7-3-22 (PWB)	Slot #7	Diamond Valley SW	47.41	8202.63	8202.63	15.66	8201.70	1.49	8185.29
DIAMOND VALLEY SW 7	DIAMOND VALLEY SW 7	Slot #7	Diamond Valley SW	47.44	590.15	9547.59	46.23	590.15	5.40	14210.67
DIAMOND VALLEY	#3-5-22-270-6 -NH (PWB) DIAMOND VALLEY SW	Slot #8	Diamond Valley SW	62.00	590.15	9563.71	60.79	590.15	6.61	14210.67

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Date Printed: 7-Jan-2013



SYSDRILL
Closest Approach + Clearance Factor Summary Report
Wellbore: DIAMOND VALLEY SW 4 #3-6-22-270-6-NH (PWB)
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]
SW 8	8									
	#3-5-22-270-6 -CH (PWB)									
DIAMOND VALLEY SW 8	DIAMOND VALLEY SW 6-2-22 (PWB)	Slot #8	Diamond Valley SW	62.00	590.15	8705.44	60.79	606.55	8.53	8825.06
DIAMOND VALLEY SW 9	DIAMOND VALLEY SW 9	Slot #9	Diamond Valley SW	80.20	616.00	14210.67	79.23	616.00	8.06	14210.67
	#3-4-22-270-6 -NH (PWB)									
DIAMOND VALLEY SW 10	DIAMOND VALLEY SW 6-4-22 (PWB)	Slot #10	Diamond Valley SW	109.33	787.00	7549.74	107.84	803.40	26.23	7955.63
DIAMOND VALLEY SW 10	DIAMOND VALLEY SW 10	Slot #10	Diamond Valley SW	109.33	770.59	9553.56	107.87	770.59	10.77	14210.67
	#3-4-22-270-6 -NH (PWB)									
HILLSIDE 11	HILLSIDE 11	Slot #11	Hillside	1860.85	14210.67	14210.67	1761.05	14210.67	18.65	14210.67
#0-7-28-00 0-4-CH	#0-7-28-000-4 -CH (PWB)									
HILLSIDE 10	HILLSIDE 10	Slot #10	Hillside	1898.12	14210.67	14210.67	1808.14	14210.67	21.09	14210.67
#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	1991.43	7578.42	7578.42	1984.94	7578.42	207.19	9071.12
W Great Western #27-11	W Great Western #27-11 (AWB)	Great Western #27-11	Great Western 66N67W	2019.09	8902.74	8902.74	2003.67	8916.00	112.77	9678.07
HILLSIDE 9	HILLSIDE 9	Slot #9	Hillside	2026.70	14210.67	14210.67	1936.95	14210.67	22.42	13910.36
#7-7-29-00 0-4-NH	#7-7-29-000-4 -NH (PWB)									
HILLSIDE 7	HILLSIDE 7	Slot #7	Hillside	2110.65	14210.67	14210.67	2039.81	14210.67	29.80	14210.67
#7-7-29-00 0-4-CH	#7-7-29-000-4 -CH (PWB)									
HILLSIDE 8	HILLSIDE 8	Slot #8	Hillside	2196.54	14210.67	14210.67	2093.62	14210.67	21.34	14210.67
#7-7-29-00 0-4-NH	#7-7-29-000-4 -NH (PWB)									
HILLSIDE 5	HILLSIDE 5	Slot #5	Hillside	2404.11	14210.67	14210.67	2287.93	14210.67	20.69	14210.67
#6-7-29-00 0-4-NH	#6-7-29-000-4 -NH (PWB)									
HILLSIDE 6	HILLSIDE 6	Slot #6	Hillside	2647.43	14210.67	14210.67	2519.24	14210.67	20.65	14210.67
#6-7-29-00 0-4-CH	#6-7-29-000-4 -CH (PWB)									
W Great Western #27-52	W Great Western #27-52 (AWB)	Great Western #27-52	Great Western 66N67W	2684.33	8238.66	8238.66	2674.05	8250.91	170.16	9956.94
HILLSIDE 3	HILLSIDE 3	Slot #3	Hillside	2758.48	14210.67	14210.67	2626.44	14210.67	20.89	14210.67
#5-7-29-00 0-4-NH	#5-7-29-000-4 -NH (PWB)									
HILLSIDE 2	HILLSIDE 2	Slot #2	Hillside	3170.20	14210.67	14210.67	3026.71	14210.67	22.09	14210.67
#5-7-29-00 0-4-CH	#5-7-29-000-4 -CH (PWB)									
W Great Western #27-12	W Great Western #27-12 (AWB)	Great Western #27-12	Great Western 66N67W	3206.93	22.00	8894.90	3206.81	1098.68	150.47	10842.77
W Great Western #27-22	W Great Western #27-22 (AWB)	Great Western #27-22	Great Western 66N67W	3216.99	1016.66	7391.95	3216.18	1016.66	237.85	10875.58
HILLSIDE 4	HILLSIDE 4	Slot #4	Hillside	3237.73	14210.67	14210.67	3092.40	14210.67	22.28	14210.67
#5-7-29-00 0-4-NH	#5-7-29-000-4 -NH (PWB)									
Poudre	Poudre	Poudre	Poudre	4123.00	12122.30	12122.30	4061.60	12171.51	56.31	13975.97

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SYSDRILL
Closest Approach + Clearance Factor Summary Report
Wellbore: DIAMOND VALLEY SW 4 #3-6-22-270-6-NH (PWB)
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]
#25-28	#25-28 (AWB)	#25-28	(Kerr-McGee Oil & Gas)							
Great Western 27-13	W #12 Great Western 27-13 (AWB)	Great Western #27-13	Great Western (Great Western Oil & Gas)	4667.14	8880.71	8880.71	4651.81	8916.00	171.37	12073.09
Poudre #11-28	Poudre #11-28 (AWB)	Poudre #11-28	Poudre (Kerr-McGee Oil & Gas)	4682.14	12684.97	12684.97	4623.19	12716.00	72.30	14210.67
Poudre #10-28	Poudre #10-28 (AWB)	Poudre #10-28	Poudre (Kerr-McGee Oil & Gas)	4688.21	11423.30	11423.30	4621.73	11482.54	60.36	13287.00
W Great Western #27-23	W Great Western #27-23 (AWB)	Great Western #27-23	Great Western (Great Western Oil & Gas)	4709.64	7611.14	7611.14	4703.00	7627.55	224.70	12368.36
Poudre #23-28	Poudre #23-28 (AWB)	Poudre #23-28	Poudre (Kerr-McGee Oil & Gas)	5331.81	12116.00	12116.00	5278.02	12155.11	83.56	14210.67
Poudre #19-28	Poudre #19-28 (AWB)	Poudre #19-28	Poudre (Kerr-McGee Oil & Gas)	5336.27	13319.81	13319.81	5262.38	13352.61	68.61	14210.67
W Great Western #27-53	W Great Western #27-53 (AWB)	Great Western #27-53	Great Western (Great Western Oil & Gas)	5343.75	8250.91	8250.91	5333.30	8283.72	201.01	12647.23
W Great Western #27-14	W Great Western #27-14 (AWB)	Great Western #27-14	Great Western (Great Western Oil & Gas)	5484.62	50.00	8898.75	5484.56	180.04	183.31	13451.04
Poudre #15-28	Poudre #15-28 (AWB)	Poudre #15-28	Poudre (Kerr-McGee Oil & Gas)	5984.45	11416.92	11416.92	5920.38	11449.73	84.65	13336.21
Poudre #14-28	Poudre #14-28 (AWB)	Poudre #14-28	Poudre (Kerr-McGee Oil & Gas)	6069.13	12664.34	12664.34	6014.93	12716.00	94.72	14210.67
CENTER POINT 5 #8-1-32-18 0-4-NH	CENTER POINT 5 #8-1-32-180-4 -NH (PWB)	Slot #5	Center Point	6422.70	14210.67	14210.67	6349.84	14210.67	88.15	14210.67
Poudre #36-28	Poudre #36-28 (AWB)	Poudre #36-28	Poudre (Kerr-McGee Oil & Gas)	6583.53	11974.66	11974.66	6526.11	12016.00	101.85	14210.67
CENTER POINT 7 #0-1-33-18 0-4-NH	CENTER POINT 7 #0-1-33-180-4 -NH (PWB)	Slot #7	Center Point	6617.69	14210.67	14210.67	6546.39	14210.67	92.82	14210.67
CENTER POINT 8 #1-0-33-09 0-4-NH	CENTER POINT 8 #1-0-33-090-4 -NH (PWB)	Slot #8	Center Point	6703.99	9892.98	14210.67	6641.51	14210.67	92.55	14210.67
CENTER POINT 6 #1-0-33-09 0-4-CH	CENTER POINT 6 #1-0-33-090-4 -CH (PWB)	Slot #6	Center Point	6750.07	14210.67	14210.67	6678.73	14210.67	94.62	14210.67
RAINDANCE CE 7 #1-0-32-09 0-4-NH	RAINDANCE 7 #1-0-32-090-4 -NH (PWB)	Slot #7	Raindance	6782.14	14210.67	14210.67	6674.57	14210.67	63.05	14210.67
RAINDANCE CE 8 #1-0-32-09 0-4-CH	RAINDANCE 8 #1-0-32-090-4 -CH (PWB)	Slot #8	Raindance	6837.42	14210.67	14210.67	6729.61	14210.67	63.42	14210.67
CENTER POINT 4 #1-0-33-09 0-4-NH	CENTER POINT 4 #1-0-33-090-4 -NH (PWB)	Slot #4	Center Point	6859.67	14210.67	14210.67	6788.35	14210.67	96.18	14210.67
RAINDANCE CE 9 #1-0-32-09 0-4-NH	RAINDANCE 9 #1-0-32-090-4 -NH (PWB)	Slot #9	Raindance	6999.17	14210.67	14210.67	6891.00	14210.67	64.70	14210.67

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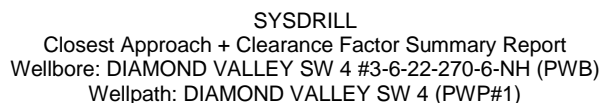


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Wellbore: DIAMOND VALLEY SW 4 #3-6-22-270-6-NH (PWB)
Wellpath: DIAMOND VALLEY SW 4 (PWP#1)

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]
CENTER POINT 3	CENTER POINT 3	Slot #3	Center Point	7028.11	14210.67	14210.67	6957.99	14210.67	100.23	14210.67
#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	7084.14	9596.05	9596.05	7044.11	9563.24	76.21	14210.67
#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	7089.96	9530.44	9530.44	7059.71	9546.84	116.48	14210.67
#8-7-33-00 0-4-NH CENTER POINT 1	#8-7-33-000-4 -NH (PWB) CENTER POINT 1	Slot #1	Center Point	7158.37	14210.67	14210.67	7087.94	14210.67	101.63	14210.67
#1-1-33-09 0-4-CH RAINDANCE CE 2	#1-1-33-090-4 -CH (PWB) RAINDANCE 2	Slot #2	Raindance	7271.68	14210.67	14210.67	7020.28	14210.67	28.93	14210.67
#1-1-32-09 0-4-NH CENTER POINT 2	#1-1-32-090-4 -NH (PWB) CENTER POINT 2	Slot #2	Center Point	7285.05	14210.67	14210.67	7215.98	14210.67	105.49	14210.67
#1-1-33-09 0-4-NH RAINDANCE CE 3	#1-1-33-090-4 -NH (PWB) RAINDANCE 3	Slot #3	Raindance	7433.60	14210.67	14210.67	7181.52	14210.67	29.49	14210.67
#1-1-32-09 0-4-CH RAINDANCE CE 4	#1-1-32-090-4 -CH (PWB) RAINDANCE 4	Slot #4	Raindance	7596.34	14210.67	14210.67	7343.37	14210.67	30.03	14210.67
#1-1-32-09 0-4-NH HILLSIDE 14	#1-1-32-090-4 -NH (PWB) HILLSIDE 14	Slot #14	Hillside	7783.69	9880.47	14210.67	7699.47	9940.54	91.94	9973.35
#2-1-33-09 0-4-NH RAINDANCE CE 5	#2-1-33-090-4 -NH (PWB) RAINDANCE 5	Slot #5	Raindance	7921.17	14210.67	14210.67	7667.13	14210.67	31.18	14210.67
#1-2-32-09 0-4-NH HILLSIDE 15	#1-2-32-090-4 -NH (PWB) HILLSIDE 15	Slot #15	Hillside	7923.39	14210.67	14210.67	7846.27	14210.67	93.91	9973.35
#2-1-33-09 0-4-CH HILLSIDE 18	#2-1-33-090-4 -CH (PWB) HILLSIDE 18	Slot #18	Hillside	8076.17	14210.67	14210.67	7999.19	14210.67	95.96	9973.35
#2-1-33-09 0-4-NH RAINDANCE CE 6	#2-1-33-090-4 -NH (PWB) RAINDANCE 6	Slot #6	Raindance	8088.56	14210.67	14210.67	7834.04	14210.67	31.78	14210.67
#1-2-32-09 0-4-CH HILLSIDE 2-4-32	#1-2-32-090-4 -CH (PWB) HILLSIDE 2-4-32	HILLSIDE 2-4-32	Hillside	8207.06	14210.67	14210.67	8128.24	14210.67	104.13	14210.67
PAVISTMA 12	PAVISTMA 12	Slot #12	Pavistma	8216.36	14210.67	14210.67	8117.76	14210.67	83.33	14210.67
#1-2-32-09 0-4-NH HILLSIDE 17	#1-2-32-090-4 -NH (PWB) HILLSIDE 17	Slot #17	Hillside	8302.87	14210.67	14210.67	8228.03	14210.67	99.65	9973.35
#3-1-33-09 0-4-NH PAVISTMA 11	#3-1-33-090-4 -NH (PWB) PAVISTMA 11	Slot #11	Pavistma	8543.59	14210.67	14210.67	8444.62	14210.67	86.33	14210.67
#1-3-32-09 0-4-NH PAVISTMA 10	#1-3-32-090-4 -NH (PWB) PAVISTMA 10	Slot #10	Pavistma	8608.63	9874.92	9874.92	8500.70	9956.94	79.36	9973.35
#1-3-32-09 0-8-CH FRYE FARMS 12	#1-3-32-090-8 -CH (PWB) FRYE FARMS 12	Slot #12	Frye Farms	8773.88	9874.92	9874.92	8700.13	9956.94	117.30	14210.67
#1-3-33-09	#1-3-33-090-4									

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0-4-NH RAINDAN CE 1	-NH (PWB) RAINDANCE 1 #1-1-32	Slot #1	Raindance	8779.95	14210.67	14210.67	8722.25	14210.67	152.17	14210.67
#1-1-32 PAVISTMA 9	(PWB) PAVISTMA 9 #1-3-32-090-4	Slot #9	Pavistma	8871.04	14210.67	14210.67	8771.77	14210.67	89.36	14210.67
#1-3-32-09 0-4-NH FRYE FARMS 11	-NH (PWB) FRYE FARMS 11 #1-4-33-090-4	Slot #11	Frye Farms	9103.89	9874.92	9874.92	9030.31	9956.94	122.08	14210.67
#1-4-33-09 0-4-NH PAVISTMA 8	-NH (PWB) PAVISTMA 8 #1-3-32-090-4	Slot #8	Pavistma	9198.68	14210.67	14210.67	9099.08	14210.67	92.35	14210.67
#1-3-32-09 0-4-NH PAVISTMA 7	-NH (PWB) PAVISTMA 7 #1-4-32-090-8	Slot #7	Pavistma	9268.31	9865.55	9865.55	9160.51	9924.14	85.83	9924.14
#1-4-32-09 0-8-CH FRYE FARMS 10	-CH (PWB) FRYE FARMS 10 #1-4-33-090-4	Slot #10	Frye Farms	9484.76	9825.71	9825.71	9411.37	9916.00	127.16	14210.67
#1-4-33-09 0-4-NH PAVISTMA 6	-NH (PWB) PAVISTMA 6 #1-4-32-090-4	Slot #6	Pavistma	9605.43	14210.67	14210.67	9505.14	14210.67	95.77	14210.67
#1-4-32-09 0-4-NH FRYE FARMS 9	-NH (PWB) FRYE FARMS 9 #1-5-33-090-4	Slot #9	Frye Farms	9813.48	9746.09	9746.09	9740.22	9842.12	131.22	14210.67
#1-5-33-09 0-4-NH FRYE FARMS 13	-NH (PWB) FRYE FARMS 13 #5-5-32-090-6	Slot #13	Frye Farms	9976.89	9716.00	9716.00	9902.82	9792.90	132.18	14210.67
#5-5-32-09 0-6-CH PAVISTMA 4-2-32	-CH (PWB) PAVISTMA 4-2-32 (AWB)	PAVISTMA 4-2-32	Pavistma	10014.33	14210.67	14210.67	9945.71	14210.67	145.94	14210.67
FRYE FARMS 8 #1-5-33-09	FRYE FARMS 8 #1-5-33-090-4	Slot #8	Frye Farms	10142.18	9668.14	9668.14	10069.05	9760.09	135.28	14210.67
0-4-NH PAVISTMA 5-3-32	-NH (PWB) PAVISTMA 5-3-32 (AWB)	PAVISTMA 5-3-32	Pavistma	10330.70	14210.67	14210.67	10251.41	14210.67	130.28	14210.67
PAVISTMA 5	PAVISTMA 5 #1-5-32-090-4	Slot #5	Pavistma	10406.61	14210.67	14210.67	10303.97	14210.67	101.39	14210.67
#1-5-32-09 0-4-NH FRYE FARMS 7	-NH (PWB) FRYE FARMS 7 #1-6-33-090-4	Slot #7	Frye Farms	10470.91	9596.05	9596.05	10397.89	9678.07	139.79	14210.67
#1-6-33-09 0-4-NH RANCHO WATER	-NH (PWB) RANCHO WATER VALLEY 13	Slot #13	Rancho Water Valley	10623.40	9579.65	9579.65	10594.40	9661.67	102.45	14210.67
#7-6-33-27 0-6-CH PAVISTMA 11-32	#7-6-33-270-6 -CH (PWB) PAVISTMA 11-32 (AWB)	PAVISTMA 11-32	Pavistma (Anadarko)	10675.22	14210.67	14210.67	10571.00	14210.67	102.43	14210.67
FRYE FARMS 6 #1-6-33-09	FRYE FARMS 6 #1-6-33-090-4	Slot #6	Frye Farms	10799.65	9530.44	9530.44	10726.70	9596.05	145.55	14210.67
0-4-NH PAVISTMA 5-1-32	-NH (PWB) PAVISTMA 5-1-32 (AWB)	PAVISTMA 5-1-32	Pavistma	10896.81	14210.67	14210.67	10829.83	14210.67	162.70	14210.67
PAVISTMA 4	PAVISTMA 4 #1-6-32-090-4	Slot #4	Pavistma	10898.30	14210.67	14210.67	10794.38	14210.67	104.87	14210.67
#1-6-32-09 0-4-NH FRYE FARM	-NH (PWB) FRYE FARM 7-5-32 (AWB)	FRYE FARMS #7-5-32	Frye Farms	10986.84	14210.67	14210.67	10888.41	14210.67	111.63	14210.67
7-5-32 RANCHO WATER VALLEY 12	7-5-32 (AWB) RANCHO WATER VALLEY 12	Slot #12	Rancho Water Valley	11128.31	9516.00	9516.00	10973.31	13795.53	47.53	14210.67

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 Prepared by Peterson Energy
 Date Printed: 7-Jan-2013



SYSDRILL
Closest Approach + Clearance Factor Summary Report
Wellbore: DIAMOND VALLEY SW 4 #3-6-22-270-6-NH (PWB)
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]
#7-7-33-27 0-4-NH PAVISTMA 12-32 FRYE FARMS 5	#7-7-33-270-4 -NH (PWB) PAVISTMA 12-32 (AWB) FRYE FARMS 5	PAVISTMA 12-32 Slot #5	Pavistma (Anadarko) Frye Farms	11169.37 11195.44	14210.67 13964.09	14210.67 13964.09	11102.65 11122.87	14210.67 14057.99	167.39 150.92	14210.67 14210.67
#7-9-32-27 0-4-NH RANCHO WATER VALLEY 11	#7-9-32-270-4 -NH (PWB) RANCHO WATER VALLEY 11	Slot #11	Rancho Water Valley	11274.76	9514.03	9514.03	11247.81	9530.44	108.62	14210.67
#7-7-33-27 0-6-CH RANCHO WATER VALLEY 10	#7-7-33-270-6 -CH (PWB) RANCHO WATER VALLEY 10	Slot #10	Rancho Water Valley	11455.94	9497.63	9497.63	11429.33	9516.00	115.44	14210.67
#7-8-33-27 0-4-NH FRYE FARMS 1	#7-8-33-270-4 -NH (PWB) FRYE FARMS 1	Slot #1	Frye Farms	11479.23	14025.19	14025.19	11407.44	14116.00	157.61	14210.67
#7-8-32-27 0-4-NH PAVISTMA 19-32 RANCHO WATER VALLEY #3-9-4	#7-8-32-270-4 -NH (PWB) PAVISTMA 19-32 (AWB) RANCHO WATER VALLEY #3-9-4 (AWB)	PAVISTMA 19-32 Slot #01	Pavistma (Anadarko) Rancho Water Valley	11507.53 11840.23	14210.67 130.83	14210.67 9216.00	11417.66 11839.86	14210.67 147.23	128.05 202.82	14210.67 14210.67
RANCHO WATER VALLEY #2-8-4	RANCHO WATER VALLEY #2-8-4 (AWB)	Slot #02	Rancho Water Valley	11844.62	463.49	9530.44	11843.36	787.00	189.02	14210.67
RANCHO WATER VALLEY #2-6-4	RANCHO WATER VALLEY #2-6-4 (AWB)	Slot #03	Rancho Water Valley	11848.85	16.00	10716.00	11848.66	98.02	125.27	14210.67
RANCHO WATER VALLEY 4	RANCHO WATER VALLEY 4	Slot #04	Rancho Water Valley	11851.34	1016.66	9005.50	11849.53	1016.66	52.34	14210.67
#7-1-4-270 -4-NH RANCHO WATER VALLEY 5	#7-1-4-270-4 NH (PWB) RANCHO WATER VALLEY 5	Slot #05	Rancho Water Valley	11853.85	1016.66	9071.12	11852.04	1016.66	54.89	14210.67
#7-2-4-270 -4-NH RANCHO WATER VALLEY 6	#7-2-4-270-4 NH (PWB) RANCHO WATER VALLEY 6	Slot #06	Rancho Water Valley	11855.95	1016.66	9427.28	11854.34	1016.66	114.73	14210.67
#0-7-4-270 -5-NH RANCHO WATER VALLEY 7	#0-7-4-270-5 NH (PWB) RANCHO WATER VALLEY 7	Slot #07	Rancho Water Valley	11858.51	1016.66	9448.41	11684.92	14210.67	45.72	14210.67
#7-8-33-27 0-5-CH FRYE FARMS #9-7-32	#7-8-33-270-5 -CH (PWB) FRYE FARMS #9-7-32 (AWB)	FRYE FARMS #9-7-32	Frye Farms	12047.64	14210.67	14210.67	11974.32	14210.67	164.31	14210.67
FRYE FARMS #9-5-32	FRYE FARMS #9-5-32 (AWB)	FRYE FARMS #9-5-32	Frye Farms	12156.09	14210.67	14210.67	12081.16	14210.67	162.24	14210.67
Lind #13-32 Anderson #1	Lind #13-32 (AWB) Anderson #1 (AWB)	Lind #13-32 Anderson #1	Lind (Anadarko) Anderson (J.K. Wadley)	12308.73 12939.52	14210.67 14210.67	14210.67 14210.67	12232.09 12881.70	14210.67 14210.67	160.62 223.81	14210.67 14210.67

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