

TEKTON WINDSOR, LLC			
Location	Windsor, CO, USA	Slot	Slot #13
Field	Windsor Project	Well	RANCHO WATER VALLEY 13 #7-6-33-270-6-CH
Installation	Rancho Water Valley	Wellbore	RANCHO WATER VALLEY 13 #7-6-33-270-6-CH (PWB)

Slot Slot #13

**Well** RANCHO WATER VALLEY 13 #7-6-33-270-6-CH

**Wellbore** RANCHO WATER VALLEY 13 #7-6-33-270-6-CH (PWB)

**East (feet) ->**

3000

RWV 13 - T1

DC Kick off Point - 0.00 Inc, 1236.00 MD, 1236.00 TVD, 0.00 VS

WELL PROFILE DATA								
Point	MD	Inc	Azi	TVD	North	East	deg/100ft	V. Sect
Tie on	16.00	0.00	347.64	16.00	0.00	0.00	0.00	0.00
KOP	1236.00	0.00	347.64	1236.00	0.00	0.00	0.00	0.00
End of Build	6702.67	28.27	4.05	6483.50	1318.32	93.39	0.52	173.95
Target RWV 13 - T1	7471.58	90.00	269.26	6921.00	1546.58	-386.71	12.00	690.17
T.D. & Target RWV 13 -	14185.47	90.00	269.26	6921.00	1459.36	-7100.03	0.00	7248.46

Plot reference is RANCHO WATER VALLEY 13 #7-6-33-270-6-CH (PWB).  
Ref wellpath is RANCHO WATER VALLEY 13 #7-6-33-270-6-CH (PWP#1).  
Coordinates are in feet reference Slot #13.  
True Vertical Depths are reference Rig Datum.  
Measured Depths are reference Rig Datum.  
Rig Datum: Planned Datum #1  
Rig Datum to Mean Sea Level: 4791.00 ft.  
Plot North is aligned to GRID North.

T.D. & End of Hold - 6921.00 TVD, 1459.36 N 7100.03 W

RWV 13 - T2

Scale 1 cm = 250 ft

300 3500 3500 4000 4500  
**Vertical Section (feet) ->**

**Azimuth 281.61 with reference 0.00 N, 0.00 E from Slot #13**



SYSDRILL  
Well Design Combined Report  
Wellbore: RANCHO WATER VALLEY 13 #7-6-33-270-6-CH (PWB)  
Wellpath: RANCHO WATER VALLEY 13 #7-6-33-270-6-CH (PWP#1)

**Wellhead Details**

Name	Northing	Easting	Latitude	Longitude	North	East
Slot #13	1402073.4738	3170199.1127	N40 26 7.7379	W104 53 18.8520	0.00N	144.76W

**Site Details**

Name	Northing	Easting	Coord System Name	North Alignment
Rancho Water Valley	1402073.4733	3170343.8622	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	347.640	16.00	0.00N	0.00E		0.00	1402073.47	3170199.11
1236.00	0.00	347.640	1236.00	0.00N	0.00E	==>	0.00	1402073.47	3170199.11
6702.67	28.27	4.050	6483.50	1318.32N	93.39E	0.52	173.95	1403391.74	3170292.50
7471.58	90.00	269.260	6921.00	1546.58N	386.71W	12.00	690.17	1403619.99	3169812.42
14185.47	90.00	269.260	6921.00	1459.36N	7100.03W	==>	7248.46	1403532.78	3163099.37

**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	1402073.47	3170199.11
16.00	0.00	347.640	16.00	0.00N	0.00E	==>	0.00	1402073.47	3170199.11
100.00	0.00	347.640	100.00	0.00N	0.00E	==>	0.00	1402073.47	3170199.11
200.00	0.00	347.640	200.00	0.00N	0.00E	==>	0.00	1402073.47	3170199.11
300.00	0.00	347.640	300.00	0.00N	0.00E	==>	0.00	1402073.47	3170199.11
400.00	0.00	347.640	400.00	0.00N	0.00E	==>	0.00	1402073.47	3170199.11
500.00	0.00	347.640	500.00	0.00N	0.00E	==>	0.00	1402073.47	3170199.11
600.00	0.00	347.640	600.00	0.00N	0.00E	==>	0.00	1402073.47	3170199.11
700.00	0.00	347.640	700.00	0.00N	0.00E	==>	0.00	1402073.47	3170199.11
800.00	0.00	347.640	800.00	0.00N	0.00E	==>	0.00	1402073.47	3170199.11
900.00	0.00	347.640	900.00	0.00N	0.00E	==>	0.00	1402073.47	3170199.11
1000.00	0.00	347.640	1000.00	0.00N	0.00E	==>	0.00	1402073.47	3170199.11
1100.00	0.00	347.640	1100.00	0.00N	0.00E	==>	0.00	1402073.47	3170199.11
1200.00	0.00	347.640	1200.00	0.00N	0.00E	==>	0.00	1402073.47	3170199.11
1220.00	0.00	347.640	1220.00	0.00N	0.00E	==>	0.00	1402073.47	3170199.11
1236.00	0.00	347.640	1236.00	0.00N	0.00E	==>	0.00	1402073.47	3170199.11
1320.00	0.43	4.050	1320.00	0.32N	0.02E	0.52	0.04	1402073.79	3170199.14
1420.00	0.95	4.050	1419.99	1.52N	0.11E	0.52	0.20	1402075.00	3170199.22
1520.00	1.47	4.050	1519.97	3.63N	0.26E	0.52	0.48	1402077.10	3170199.37
1620.00	1.99	4.050	1619.92	6.64N	0.47E	0.52	0.88	1402080.11	3170199.58
1720.00	2.50	4.050	1719.85	10.54N	0.75E	0.52	1.39	1402084.02	3170199.86
1820.00	3.02	4.050	1819.73	15.35N	1.09E	0.52	2.03	1402088.82	3170200.20
1920.00	3.54	4.050	1919.57	21.06N	1.49E	0.52	2.78	1402094.53	3170200.60
2020.00	4.05	4.050	2019.35	27.66N	1.96E	0.52	3.65	1402101.13	3170201.07
2120.00	4.57	4.050	2119.06	35.16N	2.49E	0.52	4.64	1402108.63	3170201.60
2220.00	5.09	4.050	2218.71	43.56N	3.09E	0.52	5.75	1402117.03	3170202.20
2320.00	5.61	4.050	2318.27	52.86N	3.74E	0.52	6.97	1402126.33	3170202.86
2420.00	6.12	4.050	2417.75	63.05N	4.47E	0.52	8.32	1402136.52	3170203.58
2520.00	6.64	4.050	2517.13	74.14N	5.25E	0.52	9.78	1402147.61	3170204.36
2620.00	7.16	4.050	2616.40	86.12N	6.10E	0.52	11.36	1402159.59	3170205.21
2720.00	7.68	4.050	2715.57	99.00N	7.01E	0.52	13.06	1402172.47	3170206.13
2820.00	8.19	4.050	2814.61	112.77N	7.99E	0.52	14.88	1402186.24	3170207.10
2920.00	8.71	4.050	2913.52	127.43N	9.03E	0.52	16.81	1402200.89	3170208.14
3020.00	9.23	4.050	3012.30	142.97N	10.13E	0.52	18.86	1402216.44	3170209.24
3120.00	9.74	4.050	3110.93	159.41N	11.29E	0.52	21.03	1402232.88	3170210.40
3220.00	10.26	4.050	3209.41	176.74N	12.52E	0.52	23.32	1402250.20	3170211.63
3320.00	10.78	4.050	3307.73	194.95N	13.81E	0.52	25.72	1402268.42	3170212.92
3420.00	11.30	4.050	3405.88	214.05N	15.16E	0.52	28.24	1402287.51	3170214.27
3520.00	11.81	4.050	3503.85	234.02N	16.58E	0.52	30.88	1402307.49	3170215.69
3620.00	12.33	4.050	3601.64	254.88N	18.06E	0.52	33.63	1402328.35	3170217.17
3720.00	12.85	4.050	3699.24	276.62N	19.60E	0.52	36.50	1402350.09	3170218.71
3820.00	13.36	4.050	3796.63	299.24N	21.20E	0.52	39.48	1402372.70	3170220.31
3920.00	13.88	4.050	3893.82	322.74N	22.86E	0.52	42.58	1402396.20	3170221.97
4020.00	14.40	4.050	3990.79	347.10N	24.59E	0.52	45.80	1402420.56	3170223.70
4120.00	14.92	4.050	4087.54	372.34N	26.38E	0.52	49.13	1402445.80	3170225.49
4220.00	15.43	4.050	4184.05	398.45N	28.23E	0.52	52.57	1402471.91	3170227.34
4320.00	15.95	4.050	4280.32	425.43N	30.14E	0.52	56.13	1402498.89	3170229.25
4420.00	16.47	4.050	4376.35	453.27N	32.11E	0.52	59.81	1402526.73	3170231.22
4520.00	16.98	4.050	4472.12	481.98N	34.14E	0.52	63.60	1402555.44	3170233.25
4620.00	17.50	4.050	4567.62	511.55N	36.24E	0.52	67.50	1402585.00	3170235.35
4720.00	18.02	4.050	4662.85	541.98N	38.39E	0.52	71.51	1402615.43	3170237.50
4820.00	18.54	4.050	4757.81	573.26N	40.61E	0.52	75.64	1402646.71	3170239.72
4920.00	19.05	4.050	4852.48	605.40N	42.88E	0.52	79.88	1402678.85	3170242.00
5020.00	19.57	4.050	4946.85	638.39N	45.22E	0.52	84.23	1402711.83	3170244.33

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 4791.0ft above Mean Sea Level )  
Vertical Section is from 0.00N 0.00E on azimuth 281.610 degrees  
Bottom hole distance is 7248.46 Feet on azimuth 281.61 degrees from Wellhead  
Calculation method uses Minimum Curvature method  
Prepared by Peterson Energy  
Date Printed: 23-Oct-2012



SYSDRILL  
Well Design Combined Report  
Wellbore: RANCHO WATER VALLEY 13 #7-6-33-270-6-CH (PWB)  
Wellpath: RANCHO WATER VALLEY 13 #7-6-33-270-6-CH (PWP#1)

**Interpolated Wellpath**

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
5120.00	20.09	4.050	5040.92	672.22N	47.62E	0.52	88.70	1402745.67	3170246.73
5220.00	20.60	4.050	5134.68	706.90N	50.08E	0.52	93.27	1402780.35	3170249.19
5320.00	21.12	4.050	5228.12	742.43N	52.59E	0.52	97.96	1402815.87	3170251.70
5420.00	21.64	4.050	5321.24	778.79N	55.17E	0.52	102.76	1402852.24	3170254.28
5520.00	22.16	4.050	5414.03	815.99N	57.80E	0.52	107.67	1402889.44	3170256.91
5620.00	22.67	4.050	5506.47	854.03N	60.50E	0.52	112.69	1402927.47	3170259.61
5720.00	23.19	4.050	5598.57	892.90N	63.25E	0.52	117.81	1402966.33	3170262.36
5820.00	23.71	4.050	5690.31	932.59N	66.06E	0.52	123.05	1403006.03	3170265.17
5920.00	24.22	4.050	5781.69	973.11N	68.93E	0.52	128.40	1403046.54	3170268.04
6020.00	24.74	4.050	5872.69	1014.45N	71.86E	0.52	133.85	1403087.88	3170270.97
6120.00	25.26	4.050	5963.32	1056.61N	74.85E	0.52	139.42	1403130.04	3170273.96
6220.00	25.78	4.050	6053.57	1099.58N	77.89E	0.52	145.09	1403173.01	3170277.00
6320.00	26.29	4.050	6143.42	1143.36N	80.99E	0.52	150.86	1403216.79	3170280.10
6420.00	26.81	4.050	6232.87	1187.95N	84.15E	0.52	156.75	1403261.38	3170283.26
6520.00	27.33	4.050	6321.92	1233.34N	87.37E	0.52	162.74	1403306.77	3170286.48
6620.00	27.85	4.050	6410.55	1279.54N	90.64E	0.52	168.83	1403352.96	3170289.75
6700.00	28.26	4.050	6481.15	1317.06N	93.30E	0.52	173.78	1403390.48	3170292.41
6702.67	28.27	4.050	6483.50	1318.32N	93.39E	0.52	173.95	1403391.74	3170292.50
6800.00	29.60	339.920	6568.97	1364.05N	86.74E	12.00	189.66	1403437.47	3170285.85
6900.00	34.86	319.560	6653.79	1409.16N	59.63E	12.00	225.30	1403482.58	3170258.74
7000.00	42.63	304.860	6731.89	1450.42N	13.14E	12.00	279.15	1403523.83	3170212.25
7100.00	51.77	294.230	6799.86	1486.02N	50.70W	12.00	348.85	1403559.43	3170148.41
7200.00	61.66	286.060	6854.74	1514.41N	129.10W	12.00	431.36	1403587.83	3170070.02
7300.00	71.94	279.320	6894.12	1534.36N	218.63W	12.00	523.07	1403607.77	3169980.50
7400.00	82.44	273.340	6916.28	1544.98N	315.37W	12.00	619.97	1403618.39	3169883.76
7471.58	90.00	269.260	6921.00	1546.58N	386.71W	12.00	690.17	1403619.99	3169812.42
7500.00	90.00	269.260	6921.00	1546.21N	415.13W	==>	717.93	1403619.63	3169784.00
7600.00	90.00	269.260	6921.00	1544.91N	515.12W	==>	815.61	1403618.33	3169684.01
7700.00	90.00	269.260	6921.00	1543.62N	615.11W	==>	913.30	1403617.03	3169584.03
7800.00	90.00	269.260	6921.00	1542.32N	715.10W	==>	1010.98	1403615.73	3169484.04
7900.00	90.00	269.260	6921.00	1541.02N	815.09W	==>	1108.66	1403614.43	3169384.05
8000.00	90.00	269.260	6921.00	1539.72N	915.08W	==>	1206.34	1403613.13	3169284.06
8100.00	90.00	269.260	6921.00	1538.42N	1015.08W	==>	1304.03	1403611.83	3169184.08
8200.00	90.00	269.260	6921.00	1537.12N	1115.07W	==>	1401.71	1403610.53	3169084.09
8300.00	90.00	269.260	6921.00	1535.82N	1215.06W	==>	1499.39	1403609.23	3168984.10
8400.00	90.00	269.260	6921.00	1534.52N	1315.05W	==>	1597.07	1403607.93	3168884.11
8500.00	90.00	269.260	6921.00	1533.22N	1415.04W	==>	1694.76	1403606.63	3168784.13
8600.00	90.00	269.260	6921.00	1531.92N	1515.03W	==>	1792.44	1403605.34	3168684.14
8700.00	90.00	269.260	6921.00	1530.62N	1615.03W	==>	1890.12	1403604.04	3168584.15
8800.00	90.00	269.260	6921.00	1529.32N	1715.02W	==>	1987.80	1403602.74	3168484.16
8900.00	90.00	269.260	6921.00	1528.03N	1815.01W	==>	2085.49	1403601.44	3168384.18
9000.00	90.00	269.260	6921.00	1526.73N	1915.00W	==>	2183.17	1403600.14	3168284.19
9100.00	90.00	269.260	6921.00	1525.43N	2014.99W	==>	2280.85	1403598.84	3168184.20
9200.00	90.00	269.260	6921.00	1524.13N	2114.98W	==>	2378.53	1403597.54	3168084.21
9300.00	90.00	269.260	6921.00	1522.83N	2214.97W	==>	2476.22	1403596.24	3167984.23
9400.00	90.00	269.260	6921.00	1521.53N	2314.97W	==>	2573.90	1403594.94	3167884.24
9500.00	90.00	269.260	6921.00	1520.23N	2414.96W	==>	2671.58	1403593.64	3167784.25
9600.00	90.00	269.260	6921.00	1518.93N	2514.95W	==>	2769.26	1403592.34	3167684.26
9700.00	90.00	269.260	6921.00	1517.63N	2614.94W	==>	2866.94	1403591.05	3167584.28
9800.00	90.00	269.260	6921.00	1516.33N	2714.93W	==>	2964.63	1403589.75	3167484.29
9900.00	90.00	269.260	6921.00	1515.03N	2814.92W	==>	3062.31	1403588.45	3167384.30
10000.00	90.00	269.260	6921.00	1513.74N	2914.92W	==>	3159.99	1403587.15	3167284.31
10100.00	90.00	269.260	6921.00	1512.44N	3014.91W	==>	3257.67	1403585.85	3167184.33
10200.00	90.00	269.260	6921.00	1511.14N	3114.90W	==>	3355.36	1403584.55	3167084.34
10300.00	90.00	269.260	6921.00	1509.84N	3214.89W	==>	3453.04	1403583.25	3166984.35
10400.00	90.00	269.260	6921.00	1508.54N	3314.88W	==>	3550.72	1403581.95	3166884.36
10500.00	90.00	269.260	6921.00	1507.24N	3414.87W	==>	3648.40	1403580.65	3166784.38
10600.00	90.00	269.260	6921.00	1505.94N	3514.87W	==>	3746.09	1403579.35	3166684.39
10700.00	90.00	269.260	6921.00	1504.64N	3614.86W	==>	3843.77	1403578.05	3166584.40
10800.00	90.00	269.260	6921.00	1503.34N	3714.85W	==>	3941.45	1403576.76	3166484.41
10900.00	90.00	269.260	6921.00	1502.04N	3814.84W	==>	4039.13	1403575.46	3166384.43
11000.00	90.00	269.260	6921.00	1500.74N	3914.83W	==>	4136.82	1403574.16	3166284.44
11100.00	90.00	269.260	6921.00	1499.44N	4014.82W	==>	4234.50	1403572.86	3166184.45
11200.00	90.00	269.260	6921.00	1498.15N	4114.81W	==>	4332.18	1403571.56	3166084.46
11300.00	90.00	269.260	6921.00	1496.85N	4214.81W	==>	4429.86	1403570.26	3165984.48
11400.00	90.00	269.260	6921.00	1495.55N	4314.80W	==>	4527.55	1403568.96	3165884.49
11500.00	90.00	269.260	6921.00	1494.25N	4414.79W	==>	4625.23	1403567.66	3165784.50
11600.00	90.00	269.260	6921.00	1492.95N	4514.78W	==>	4722.91	1403566.36	3165684.51
11700.00	90.00	269.260	6921.00	1491.65N	4614.77W	==>	4820.59	1403565.06	3165584.52
11800.00	90.00	269.260	6921.00	1490.35N	4714.76W	==>	4918.28	1403563.77	3165484.54
11900.00	90.00	269.260	6921.00	1489.05N	4814.76W	==>	5015.96	1403562.47	3165384.55
12000.00	90.00	269.260	6921.00	1487.75N	4914.75W	==>	5113.64	1403561.17	3165284.56
12100.00	90.00	269.260	6921.00	1486.45N	5014.74W	==>	5211.32	1403559.87	3165184.57
12200.00	90.00	269.260	6921.00	1485.15N	5114.73W	==>	5309.01	1403558.57	3165084.59
12300.00	90.00	269.260	6921.00	1483.86N	5214.72W	==>	5406.69	1403557.27	3164984.60

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 4791.0ft above Mean Sea Level )  
Vertical Section is from 0.00N 0.00E on azimuth 281.610 degrees  
Bottom hole distance is 7248.46 Feet on azimuth 281.61 degrees from Wellhead  
Calculation method uses Minimum Curvature method  
Prepared by Peterson Energy  
Date Printed: 23-Oct-2012



SYSDRILL  
Well Design Combined Report  
Wellbore: RANCHO WATER VALLEY 13 #7-6-33-270-6-CH (PWB)  
Wellpath: RANCHO WATER VALLEY 13 #7-6-33-270-6-CH (PWP#1)

**Interpolated Wellpath**

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
12400.00	90.00	269.260	6921.00	1482.56N	5314.71W	==>	5504.37	1403555.97	3164884.61
12500.00	90.00	269.260	6921.00	1481.26N	5414.70W	==>	5602.05	1403554.67	3164784.62
12600.00	90.00	269.260	6921.00	1479.96N	5514.70W	==>	5699.74	1403553.37	3164684.64
12700.00	90.00	269.260	6921.00	1478.66N	5614.69W	==>	5797.42	1403552.07	3164584.65
12800.00	90.00	269.260	6921.00	1477.36N	5714.68W	==>	5895.10	1403550.77	3164484.66
12900.00	90.00	269.260	6921.00	1476.06N	5814.67W	==>	5992.78	1403549.48	3164384.67
13000.00	90.00	269.260	6921.00	1474.76N	5914.66W	==>	6090.47	1403548.18	3164284.69
13100.00	90.00	269.260	6921.00	1473.46N	6014.65W	==>	6188.15	1403546.88	3164184.70
13200.00	90.00	269.260	6921.00	1472.16N	6114.65W	==>	6285.83	1403545.58	3164084.71
13300.00	90.00	269.260	6921.00	1470.86N	6214.64W	==>	6383.51	1403544.28	3163984.72
13400.00	90.00	269.260	6921.00	1469.56N	6314.63W	==>	6481.20	1403542.98	3163884.74
13500.00	90.00	269.260	6921.00	1468.27N	6414.62W	==>	6578.88	1403541.68	3163784.75
13600.00	90.00	269.260	6921.00	1466.97N	6514.61W	==>	6676.56	1403540.38	3163684.76
13700.00	90.00	269.260	6921.00	1465.67N	6614.60W	==>	6774.24	1403539.08	3163584.77
13800.00	90.00	269.260	6921.00	1464.37N	6714.60W	==>	6871.93	1403537.78	3163484.79
13900.00	90.00	269.260	6921.00	1463.07N	6814.59W	==>	6969.61	1403536.48	3163384.80
14000.00	90.00	269.260	6921.00	1461.77N	6914.58W	==>	7067.29	1403535.19	3163284.81
14100.00	90.00	269.260	6921.00	1460.47N	7014.57W	==>	7164.97	1403533.89	3163184.82
14185.47	90.00	269.260	6921.00	1459.36N	7100.03W	==>	7248.46	1403532.78	3163099.37

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 4791.0ft above Mean Sea Level )  
Vertical Section is from 0.00N 0.00E on azimuth 281.610 degrees  
Bottom hole distance is 7248.46 Feet on azimuth 281.61 degrees from Wellhead  
Calculation method uses Minimum Curvature method  
Prepared by Peterson Energy  
Date Printed: 23-Oct-2012



SYSDRILL  
Well Design Combined Report  
Wellbore: RANCHO WATER VALLEY 13 #7-6-33-270-6-CH (PWB)  
Wellpath: RANCHO WATER VALLEY 13 #7-6-33-270-6-CH (PWP#1)

Targets

Name	North[ft]	East[ft]	TVD[ft]	Latitude	Longitude	Northing	Easting	Last Revised
RWV 13 - T1	1534.05N	347.40W	6921.00	N40 26 22.9200	W104 53 23.2080	1403607.46	3169851.72	19-Oct-2012
RWV 13 - T2	1459.36N	7100.03W	6921.00	N40 26 22.6320	W104 54 50.5440	1403532.78	3163099.37	19-Oct-2012

Survey Tool Program

Reference	Survey Name	MD[ft]	TVD[ft]	Survey Tool	Error Model
6739	Planned	14185.47	6921.00	ISCWSA MWD	Rev 0

Notes

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SYSDRILL  
Closest Approach + Clearance Factor Summary Report  
Wellbore: RANCHO WATER VALLEY 13 #7-6-33-270-6-CH (PWB)  
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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
RANCHO WATER VALLEY 13 #7-6-33-270-6-CH (PWB)	17-Oct-2012	18-Oct-2012

#### Well

Name	Government ID	Last Revised
RANCHO WATER VALLEY 13 #7-6-33-270-6-CH		17-Oct-2012

#### Slot

Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Slot #13	1402073.4738	3170199.1127	N40 26 7.7379	W104 53 18.8520	0.00N	144.76W

#### Installation

Name	Easting	Northing	Coord System Name	North Alignment
Rancho Water Valley	3170343.8622	1402073.4733	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]
RANCHO WATER VALLEY 12 #7-7-33-27 0-4-NH	RANCHO WATER VALLEY 12 #7-7-33-270-4 -NH (PWB)	Slot #12	Rancho Water Valley	16.66	1410.36	11475.56	14.32	1443.17	1.49	11475.56
RANCHO WATER VALLEY 11 #7-7-33-27 0-6-CH	RANCHO WATER VALLEY 11 #7-7-33-270-6 -CH (PWB)	Slot #11	Rancho Water Valley	33.32	1475.97	14119.32	30.91	1525.19	1.10	14116.00
RANCHO WATER VALLEY 10 #7-8-33-27 0-4-NH	RANCHO WATER VALLEY 10 #7-8-33-270-4 -NH (PWB)	Slot #10	Rancho Water Valley	49.99	1541.59	11399.15	47.51	1590.80	3.98	11399.15
RANCHO WATER VALLEY 9 #8-7-33-00 0-4-CH	RANCHO WATER VALLEY 9 #8-7-33-000-4 -CH (PWB)	Slot #9	Rancho Water Valley	63.87	1574.40	7157.90	50.74	7184.64	1.77	7201.04
RANCHO WATER VALLEY 8 #7-8-33-27 0-5-CH	RANCHO WATER VALLEY 8 #7-8-33-270-5 -CH (PWB)	Slot #8	Rancho Water Valley	71.07	6984.51	6984.51	26.16	7004.19	1.55	7004.19
RANCHO WATER VALLEY #2-6-4	RANCHO WATER VALLEY #2-6-4 (AWB)	Slot #7	Rancho Water Valley	83.67	1116.44	8627.18	78.59	1116.44	15.83	1180.70
RANCHO WATER VALLEY 7 #8-7-33-00 0-4-NH	RANCHO WATER VALLEY 7 #8-7-33-000-4 -NH (PWB)	Slot #6	Rancho Water Valley	97.19	1616.09	12696.45	94.67	1616.09	2.74	12712.85
RANCHO WATER VALLEY 6 #0-7-4-270 -5-NH	RANCHO WATER VALLEY 6 #0-7-4-270-5 -NH (PWB)	Slot #3	Rancho Water Valley	113.85	1672.82	12680.04	111.19	1754.85	5.22	12762.06

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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]
RANCHO WATER VALLEY 5 #7-2-4-270 -4-NH	RANCHO WATER VALLEY 5 #7-2-4-270-4-NH (PWB)	Slot #5	Rancho Water Valley	127.74	1705.63	11400.51	125.13	1738.44	6.83	11679.39
RANCHO WATER VALLEY 4 #7-1-4-270 -4-NH	RANCHO WATER VALLEY 4 #7-1-4-270-4-NH (PWB)	Slot #4	Rancho Water Valley	144.57	1500.19	11337.51	142.16	1500.19	5.06	11449.73
RANCHO WATER VALLEY 2-8-4	RANCHO WATER VALLEY 2-8-4 (AWB)	Slot #2	Rancho Water Valley	149.24	1736.00	1736.00	145.14	1738.44	30.97	2000.91
RANCHO WATER VALLEY #3-9-4	RANCHO WATER VALLEY #3-9-4 (AWB)	Slot #1	Rancho Water Valley	194.65	578.77	578.77	192.79	578.77	49.62	9563.24