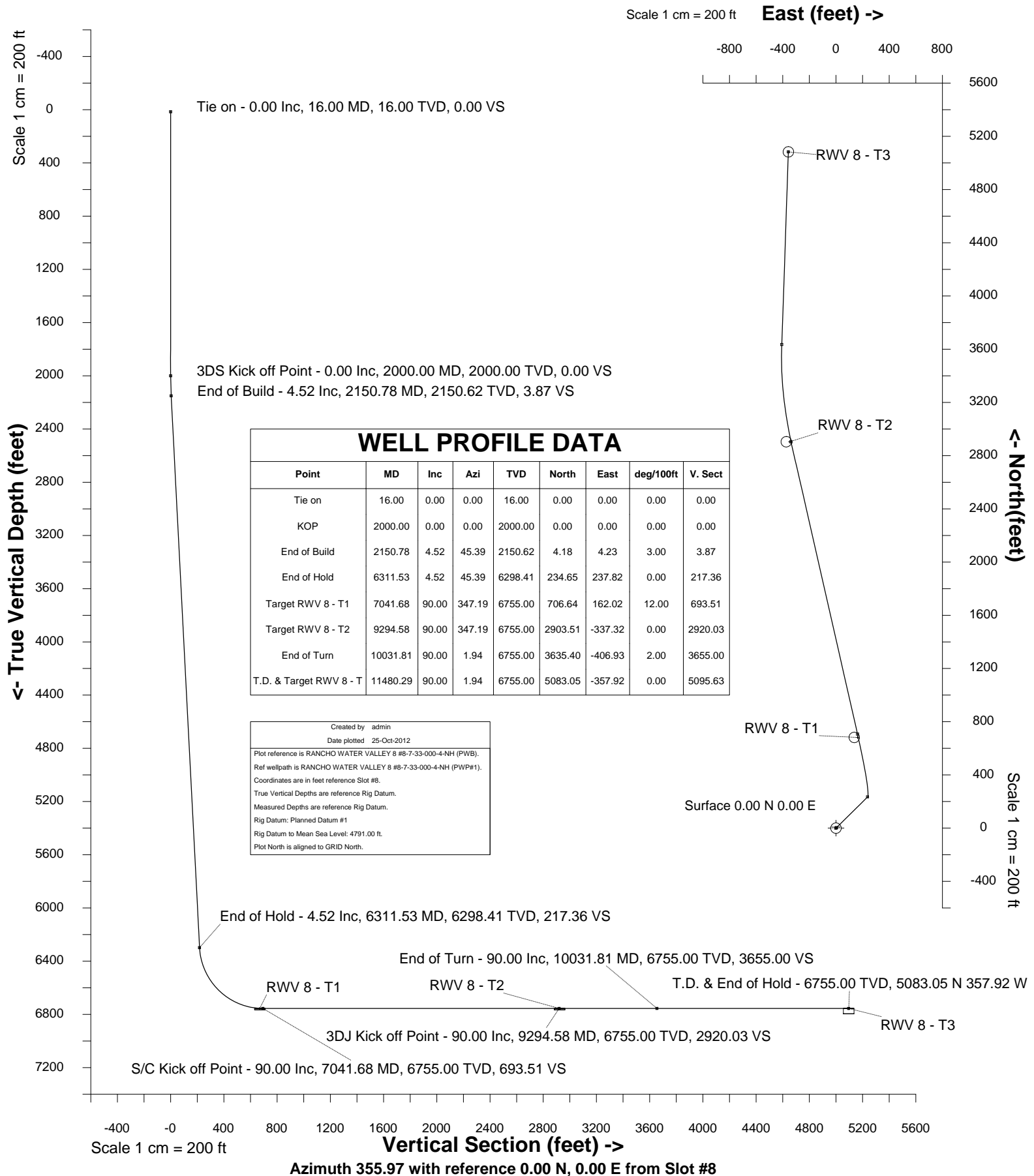


TEKTON WINDSOR, LLC

| | | | |
|--------------|---------------------|----------|--|
| Location | Windsor, CO, USA | Slot | Slot #8 |
| Field | Windsor Project | Well | RANCHO WATER VALLEY 8 #8-7-33-000-4-NH |
| Installation | Rancho Water Valley | Wellbore | RANCHO WATER VALLEY 8 #8-7-33-000-4-NH (PWB) |





SYSDRILL
Well Design Combined Report
Wellbore: RANCHO WATER VALLEY 8 #8-7-33-000-4-NH (PWB)
Wellpath: RANCHO WATER VALLEY 8 #8-7-33-000-4-NH (PWP#1)

Wellhead Details

| Name | Northing | Easting | Latitude | Longitude | North | East |
|---------|--------------|--------------|---------------|-----------------|-------|--------|
| Slot #8 | 1402073.4734 | 3170279.8384 | N40 26 7.7324 | W104 53 17.8080 | 0.00N | 64.03W |

Site Details

| Name | Northing | Easting | Coord System Name | North Alignment |
|---------------------|--------------|--------------|------------------------|-----------------|
| Rancho Water Valley | 1402073.4733 | 3170343.8622 | CO83-NF on NAD83 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 | 1402073.47 | 3170279.84 |
| 2000.00 | 0.00 | 0.000 | 2000.00 | 0.00N | 0.00E | ==> | 0.00 | 1402073.47 | 3170279.84 |
| 2150.78 | 4.52 | 45.390 | 2150.62 | 4.18N | 4.23E | 3.00 | 3.87 | 1402077.65 | 3170284.07 |
| 6311.53 | 4.52 | 45.390 | 6298.41 | 234.65N | 237.82E | ==> | 217.36 | 1402308.11 | 3170517.65 |
| 7041.68 | 90.00 | 347.190 | 6755.00 | 706.64N | 162.02E | 12.00 | 693.51 | 1402780.08 | 3170441.85 |
| 9294.58 | 90.00 | 347.190 | 6755.00 | 2903.51N | 337.32W | ==> | 2920.03 | 1404976.86 | 3169942.53 |
| 10031.81 | 90.00 | 1.940 | 6755.00 | 3635.40N | 406.93W | 2.00 | 3655.00 | 1405708.72 | 3169872.92 |
| 11480.29 | 90.00 | 1.940 | 6755.00 | 5083.05N | 357.92W | ==> | 5095.63 | 1407156.32 | 3169921.93 |

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 | 3170279.84 |
| 16.00 | 0.00 | 0.000 | 16.00 | 0.00N | 0.00E | ==> | 0.00 | 1402073.47 | 3170279.84 |
| 100.00 | 0.00 | 0.000 | 100.00 | 0.00N | 0.00E | ==> | 0.00 | 1402073.47 | 3170279.84 |
| 200.00 | 0.00 | 0.000 | 200.00 | 0.00N | 0.00E | ==> | 0.00 | 1402073.47 | 3170279.84 |
| 300.00 | 0.00 | 0.000 | 300.00 | 0.00N | 0.00E | ==> | 0.00 | 1402073.47 | 3170279.84 |
| 400.00 | 0.00 | 0.000 | 400.00 | 0.00N | 0.00E | ==> | 0.00 | 1402073.47 | 3170279.84 |
| 500.00 | 0.00 | 0.000 | 500.00 | 0.00N | 0.00E | ==> | 0.00 | 1402073.47 | 3170279.84 |
| 600.00 | 0.00 | 0.000 | 600.00 | 0.00N | 0.00E | ==> | 0.00 | 1402073.47 | 3170279.84 |
| 700.00 | 0.00 | 0.000 | 700.00 | 0.00N | 0.00E | ==> | 0.00 | 1402073.47 | 3170279.84 |
| 800.00 | 0.00 | 0.000 | 800.00 | 0.00N | 0.00E | ==> | 0.00 | 1402073.47 | 3170279.84 |
| 900.00 | 0.00 | 0.000 | 900.00 | 0.00N | 0.00E | ==> | 0.00 | 1402073.47 | 3170279.84 |
| 1000.00 | 0.00 | 0.000 | 1000.00 | 0.00N | 0.00E | ==> | 0.00 | 1402073.47 | 3170279.84 |
| 1100.00 | 0.00 | 0.000 | 1100.00 | 0.00N | 0.00E | ==> | 0.00 | 1402073.47 | 3170279.84 |
| 1200.00 | 0.00 | 0.000 | 1200.00 | 0.00N | 0.00E | ==> | 0.00 | 1402073.47 | 3170279.84 |
| 1300.00 | 0.00 | 0.000 | 1300.00 | 0.00N | 0.00E | ==> | 0.00 | 1402073.47 | 3170279.84 |
| 1400.00 | 0.00 | 0.000 | 1400.00 | 0.00N | 0.00E | ==> | 0.00 | 1402073.47 | 3170279.84 |
| 1500.00 | 0.00 | 0.000 | 1500.00 | 0.00N | 0.00E | ==> | 0.00 | 1402073.47 | 3170279.84 |
| 1600.00 | 0.00 | 0.000 | 1600.00 | 0.00N | 0.00E | ==> | 0.00 | 1402073.47 | 3170279.84 |
| 1700.00 | 0.00 | 0.000 | 1700.00 | 0.00N | 0.00E | ==> | 0.00 | 1402073.47 | 3170279.84 |
| 1800.00 | 0.00 | 0.000 | 1800.00 | 0.00N | 0.00E | ==> | 0.00 | 1402073.47 | 3170279.84 |
| 1900.00 | 0.00 | 0.000 | 1900.00 | 0.00N | 0.00E | ==> | 0.00 | 1402073.47 | 3170279.84 |
| 1984.00 | 0.00 | 0.000 | 1984.00 | 0.00N | 0.00E | ==> | 0.00 | 1402073.47 | 3170279.84 |
| 2000.00 | 0.00 | 0.000 | 2000.00 | 0.00N | 0.00E | ==> | 0.00 | 1402073.47 | 3170279.84 |
| 2084.00 | 2.52 | 45.390 | 2083.97 | 1.30N | 1.31E | 3.00 | 1.20 | 1402074.77 | 3170281.15 |
| 2150.78 | 4.52 | 45.390 | 2150.62 | 4.18N | 4.23E | 3.00 | 3.87 | 1402077.65 | 3170284.07 |
| 2200.00 | 4.52 | 45.390 | 2199.69 | 6.90N | 7.00E | ==> | 6.40 | 1402080.38 | 3170286.84 |
| 2300.00 | 4.52 | 45.390 | 2299.38 | 12.44N | 12.61E | ==> | 11.53 | 1402085.92 | 3170292.45 |
| 2400.00 | 4.52 | 45.390 | 2399.07 | 17.98N | 18.23E | ==> | 16.66 | 1402091.46 | 3170298.06 |
| 2500.00 | 4.52 | 45.390 | 2498.76 | 23.52N | 23.84E | ==> | 21.79 | 1402096.99 | 3170303.68 |
| 2600.00 | 4.52 | 45.390 | 2598.44 | 29.06N | 29.45E | ==> | 26.92 | 1402102.53 | 3170309.29 |
| 2700.00 | 4.52 | 45.390 | 2698.13 | 34.60N | 35.07E | ==> | 32.05 | 1402108.07 | 3170314.91 |
| 2800.00 | 4.52 | 45.390 | 2797.82 | 40.14N | 40.68E | ==> | 37.18 | 1402113.61 | 3170320.52 |
| 2900.00 | 4.52 | 45.390 | 2897.51 | 45.68N | 46.30E | ==> | 42.31 | 1402119.15 | 3170326.13 |
| 3000.00 | 4.52 | 45.390 | 2997.20 | 51.22N | 51.91E | ==> | 47.44 | 1402124.69 | 3170331.75 |
| 3100.00 | 4.52 | 45.390 | 3096.89 | 56.76N | 57.53E | ==> | 52.58 | 1402130.23 | 3170337.36 |
| 3200.00 | 4.52 | 45.390 | 3196.58 | 62.30N | 63.14E | ==> | 57.71 | 1402135.77 | 3170342.98 |
| 3300.00 | 4.52 | 45.390 | 3296.26 | 67.83N | 68.75E | ==> | 62.84 | 1402141.31 | 3170348.59 |
| 3400.00 | 4.52 | 45.390 | 3395.95 | 73.37N | 74.37E | ==> | 67.97 | 1402146.84 | 3170354.20 |
| 3500.00 | 4.52 | 45.390 | 3495.64 | 78.91N | 79.98E | ==> | 73.10 | 1402152.38 | 3170359.82 |
| 3600.00 | 4.52 | 45.390 | 3595.33 | 84.45N | 85.60E | ==> | 78.23 | 1402157.92 | 3170365.43 |
| 3700.00 | 4.52 | 45.390 | 3695.02 | 89.99N | 91.21E | ==> | 83.36 | 1402163.46 | 3170371.04 |
| 3800.00 | 4.52 | 45.390 | 3794.71 | 95.53N | 96.82E | ==> | 88.49 | 1402169.00 | 3170376.66 |
| 3900.00 | 4.52 | 45.390 | 3894.39 | 101.07N | 102.44E | ==> | 93.62 | 1402174.54 | 3170382.27 |
| 4000.00 | 4.52 | 45.390 | 3994.08 | 106.61N | 108.05E | ==> | 98.76 | 1402180.08 | 3170387.89 |
| 4100.00 | 4.52 | 45.390 | 4093.77 | 112.15N | 113.67E | ==> | 103.89 | 1402185.62 | 3170393.50 |
| 4200.00 | 4.52 | 45.390 | 4193.46 | 117.69N | 119.28E | ==> | 109.02 | 1402191.16 | 3170399.11 |
| 4300.00 | 4.52 | 45.390 | 4293.15 | 123.23N | 124.89E | ==> | 114.15 | 1402196.69 | 3170404.73 |
| 4400.00 | 4.52 | 45.390 | 4392.84 | 128.76N | 130.51E | ==> | 119.28 | 1402202.23 | 3170410.34 |
| 4500.00 | 4.52 | 45.390 | 4492.53 | 134.30N | 136.12E | ==> | 124.41 | 1402207.77 | 3170415.96 |
| 4600.00 | 4.52 | 45.390 | 4592.21 | 139.84N | 141.74E | ==> | 129.54 | 1402213.31 | 3170421.57 |
| 4700.00 | 4.52 | 45.390 | 4691.90 | 145.38N | 147.35E | ==> | 134.67 | 1402218.85 | 3170427.18 |
| 4800.00 | 4.52 | 45.390 | 4791.59 | 150.92N | 152.97E | ==> | 139.80 | 1402224.39 | 3170432.80 |

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 355.970 degrees
Bottom hole distance is 5095.63 Feet on azimuth 355.97 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Peterson Energy
Date Printed: 25-Oct-2012



SYSDRILL
Well Design Combined Report
Wellbore: RANCHO WATER VALLEY 8 #8-7-33-000-4-NH (PWB)
Wellpath: RANCHO WATER VALLEY 8 #8-7-33-000-4-NH (PWP#1)

Interpolated Wellpath

| MD[ft] | Inc[deg] | Azi[deg] | TVD[ft] | North[ft] | East[ft] | Dogleg [deg/100ft] | Vertical Section[ft] | Northing | Easting |
|----------|----------|----------|---------|-----------|----------|-----------------------|-------------------------|------------|------------|
| 4900.00 | 4.52 | 45.390 | 4891.28 | 156.46N | 158.58E | ==> | 144.93 | 1402229.93 | 3170438.41 |
| 5000.00 | 4.52 | 45.390 | 4990.97 | 162.00N | 164.19E | ==> | 150.07 | 1402235.47 | 3170444.03 |
| 5100.00 | 4.52 | 45.390 | 5090.66 | 167.54N | 169.81E | ==> | 155.20 | 1402241.01 | 3170449.64 |
| 5200.00 | 4.52 | 45.390 | 5190.35 | 173.08N | 175.42E | ==> | 160.33 | 1402246.54 | 3170455.25 |
| 5300.00 | 4.52 | 45.390 | 5290.03 | 178.62N | 181.04E | ==> | 165.46 | 1402252.08 | 3170460.87 |
| 5400.00 | 4.52 | 45.390 | 5389.72 | 184.16N | 186.65E | ==> | 170.59 | 1402257.62 | 3170466.48 |
| 5500.00 | 4.52 | 45.390 | 5489.41 | 189.69N | 192.26E | ==> | 175.72 | 1402263.16 | 3170472.09 |
| 5600.00 | 4.52 | 45.390 | 5589.10 | 195.23N | 197.88E | ==> | 180.85 | 1402268.70 | 3170477.71 |
| 5700.00 | 4.52 | 45.390 | 5688.79 | 200.77N | 203.49E | ==> | 185.98 | 1402274.24 | 3170483.32 |
| 5800.00 | 4.52 | 45.390 | 5788.48 | 206.31N | 209.11E | ==> | 191.11 | 1402279.78 | 3170488.94 |
| 5900.00 | 4.52 | 45.390 | 5888.17 | 211.85N | 214.72E | ==> | 196.25 | 1402285.32 | 3170494.55 |
| 6000.00 | 4.52 | 45.390 | 5987.85 | 217.39N | 220.33E | ==> | 201.38 | 1402290.86 | 3170500.16 |
| 6100.00 | 4.52 | 45.390 | 6087.54 | 222.93N | 225.95E | ==> | 206.51 | 1402296.39 | 3170505.78 |
| 6200.00 | 4.52 | 45.390 | 6187.23 | 228.47N | 231.56E | ==> | 211.64 | 1402301.93 | 3170511.39 |
| 6300.00 | 4.52 | 45.390 | 6286.92 | 234.01N | 237.18E | ==> | 216.77 | 1402307.47 | 3170517.01 |
| 6311.53 | 4.52 | 45.390 | 6298.41 | 234.65N | 237.82E | ==> | 217.36 | 1402308.11 | 3170517.65 |
| 6400.00 | 13.55 | 3.400 | 6385.76 | 247.48N | 240.93E | 12.00 | 229.94 | 1402320.94 | 3170520.76 |
| 6500.00 | 25.27 | 355.380 | 6479.93 | 280.57N | 239.90E | 12.00 | 263.02 | 1402354.03 | 3170519.73 |
| 6600.00 | 37.17 | 352.280 | 6565.30 | 331.97N | 234.10E | 12.00 | 314.70 | 1402405.43 | 3170513.93 |
| 6700.00 | 49.11 | 350.530 | 6638.14 | 399.43N | 223.79E | 12.00 | 382.73 | 1402472.89 | 3170503.62 |
| 6800.00 | 61.07 | 349.320 | 6695.27 | 480.02N | 209.41E | 12.00 | 464.12 | 1402553.47 | 3170489.24 |
| 6900.00 | 73.04 | 348.370 | 6734.18 | 570.19N | 191.60E | 12.00 | 555.33 | 1402643.64 | 3170471.43 |
| 7000.00 | 85.01 | 347.530 | 6753.19 | 666.02N | 171.13E | 12.00 | 652.36 | 1402739.47 | 3170450.96 |
| 7041.68 | 90.00 | 347.190 | 6755.00 | 706.64N | 162.02E | 12.00 | 693.51 | 1402780.08 | 3170441.85 |
| 7100.00 | 90.00 | 347.190 | 6755.00 | 763.51N | 149.10E | ==> | 751.15 | 1402836.95 | 3170428.93 |
| 7200.00 | 90.00 | 347.190 | 6755.00 | 861.02N | 126.93E | ==> | 849.98 | 1402934.46 | 3170406.76 |
| 7300.00 | 90.00 | 347.190 | 6755.00 | 958.53N | 104.77E | ==> | 948.81 | 1403031.97 | 3170384.60 |
| 7400.00 | 90.00 | 347.190 | 6755.00 | 1056.05N | 82.60E | ==> | 1047.64 | 1403129.48 | 3170362.44 |
| 7500.00 | 90.00 | 347.190 | 6755.00 | 1153.56N | 60.44E | ==> | 1146.47 | 1403226.99 | 3170340.27 |
| 7600.00 | 90.00 | 347.190 | 6755.00 | 1251.07N | 38.27E | ==> | 1245.29 | 1403324.50 | 3170318.11 |
| 7700.00 | 90.00 | 347.190 | 6755.00 | 1348.59N | 16.11E | ==> | 1344.12 | 1403422.01 | 3170295.95 |
| 7800.00 | 90.00 | 347.190 | 6755.00 | 1446.10N | 6.05W | ==> | 1442.95 | 1403519.51 | 3170273.78 |
| 7900.00 | 90.00 | 347.190 | 6755.00 | 1543.61N | 28.22W | ==> | 1541.78 | 1403617.02 | 3170251.62 |
| 8000.00 | 90.00 | 347.190 | 6755.00 | 1641.12N | 50.38W | ==> | 1640.61 | 1403714.53 | 3170229.46 |
| 8100.00 | 90.00 | 347.190 | 6755.00 | 1738.64N | 72.55W | ==> | 1739.44 | 1403812.04 | 3170207.29 |
| 8200.00 | 90.00 | 347.190 | 6755.00 | 1836.15N | 94.71W | ==> | 1838.27 | 1403909.55 | 3170185.13 |
| 8300.00 | 90.00 | 347.190 | 6755.00 | 1933.66N | 116.88W | ==> | 1937.10 | 1404007.06 | 3170162.97 |
| 8400.00 | 90.00 | 347.190 | 6755.00 | 2031.18N | 139.04W | ==> | 2035.92 | 1404104.57 | 3170140.80 |
| 8500.00 | 90.00 | 347.190 | 6755.00 | 2128.69N | 161.20W | ==> | 2134.75 | 1404202.08 | 3170118.64 |
| 8600.00 | 90.00 | 347.190 | 6755.00 | 2226.20N | 183.37W | ==> | 2233.58 | 1404299.59 | 3170096.48 |
| 8700.00 | 90.00 | 347.190 | 6755.00 | 2323.71N | 205.53W | ==> | 2332.41 | 1404397.09 | 3170074.31 |
| 8800.00 | 90.00 | 347.190 | 6755.00 | 2421.23N | 227.70W | ==> | 2431.24 | 1404494.60 | 3170052.15 |
| 8900.00 | 90.00 | 347.190 | 6755.00 | 2518.74N | 249.86W | ==> | 2530.07 | 1404592.11 | 3170029.99 |
| 9000.00 | 90.00 | 347.190 | 6755.00 | 2616.25N | 272.03W | ==> | 2628.90 | 1404689.62 | 3170007.82 |
| 9100.00 | 90.00 | 347.190 | 6755.00 | 2713.76N | 294.19W | ==> | 2727.73 | 1404787.13 | 3169985.66 |
| 9200.00 | 90.00 | 347.190 | 6755.00 | 2811.28N | 316.36W | ==> | 2826.56 | 1404884.64 | 3169963.50 |
| 9294.58 | 90.00 | 347.190 | 6755.00 | 2903.51N | 337.32W | ==> | 2920.03 | 1404976.86 | 3169942.53 |
| 9300.00 | 90.00 | 347.300 | 6755.00 | 2908.79N | 338.51W | 2.00 | 2925.38 | 1404982.15 | 3169941.34 |
| 9400.00 | 90.00 | 349.300 | 6755.00 | 3006.71N | 358.79W | 2.00 | 3024.49 | 1405080.06 | 3169921.07 |
| 9500.00 | 90.00 | 351.300 | 6755.00 | 3105.28N | 375.63W | 2.00 | 3123.99 | 1405178.63 | 3169904.22 |
| 9600.00 | 90.00 | 353.300 | 6755.00 | 3204.37N | 389.02W | 2.00 | 3223.78 | 1405277.72 | 3169890.83 |
| 9700.00 | 90.00 | 355.300 | 6755.00 | 3303.87N | 398.95W | 2.00 | 3323.73 | 1405377.21 | 3169880.90 |
| 9800.00 | 90.00 | 357.300 | 6755.00 | 3403.66N | 405.40W | 2.00 | 3423.73 | 1405477.00 | 3169874.46 |
| 9900.00 | 90.00 | 359.300 | 6755.00 | 3503.61N | 408.36W | 2.00 | 3523.64 | 1405576.94 | 3169871.49 |
| 10000.00 | 90.00 | 1.300 | 6755.00 | 3603.60N | 407.83W | 2.00 | 3623.35 | 1405676.93 | 3169872.02 |
| 10031.81 | 90.00 | 1.940 | 6755.00 | 3635.40N | 406.93W | 2.00 | 3655.00 | 1405708.72 | 3169872.92 |
| 10100.00 | 90.00 | 1.940 | 6755.00 | 3703.55N | 404.62W | ==> | 3722.82 | 1405776.88 | 3169875.23 |
| 10200.00 | 90.00 | 1.940 | 6755.00 | 3803.49N | 401.24W | ==> | 3822.28 | 1405876.81 | 3169878.61 |
| 10300.00 | 90.00 | 1.940 | 6755.00 | 3903.44N | 397.86W | ==> | 3921.74 | 1405976.75 | 3169882.00 |
| 10400.00 | 90.00 | 1.940 | 6755.00 | 4003.38N | 394.47W | ==> | 4021.20 | 1406076.69 | 3169885.38 |
| 10500.00 | 90.00 | 1.940 | 6755.00 | 4103.32N | 391.09W | ==> | 4120.66 | 1406176.63 | 3169888.76 |
| 10600.00 | 90.00 | 1.940 | 6755.00 | 4203.26N | 387.71W | ==> | 4220.12 | 1406276.57 | 3169892.15 |
| 10700.00 | 90.00 | 1.940 | 6755.00 | 4303.21N | 384.32W | ==> | 4319.57 | 1406376.51 | 3169895.53 |
| 10800.00 | 90.00 | 1.940 | 6755.00 | 4403.15N | 380.94W | ==> | 4419.03 | 1406476.45 | 3169898.91 |
| 10900.00 | 90.00 | 1.940 | 6755.00 | 4503.09N | 377.56W | ==> | 4518.49 | 1406576.39 | 3169902.30 |
| 11000.00 | 90.00 | 1.940 | 6755.00 | 4603.04N | 374.17W | ==> | 4617.95 | 1406676.32 | 3169905.68 |
| 11100.00 | 90.00 | 1.940 | 6755.00 | 4702.98N | 370.79W | ==> | 4717.41 | 1406776.26 | 3169909.06 |
| 11200.00 | 90.00 | 1.940 | 6755.00 | 4802.92N | 367.41W | ==> | 4816.86 | 1406876.20 | 3169912.45 |
| 11300.00 | 90.00 | 1.940 | 6755.00 | 4902.86N | 364.02W | ==> | 4916.32 | 1406976.14 | 3169915.83 |
| 11400.00 | 90.00 | 1.940 | 6755.00 | 5002.81N | 360.64W | ==> | 5015.78 | 1407076.08 | 3169919.21 |
| 11480.29 | 90.00 | 1.940 | 6755.00 | 5083.05N | 357.92W | ==> | 5095.63 | 1407156.32 | 3169921.93 |

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 355.970 degrees
Bottom hole distance is 5095.63 Feet on azimuth 355.97 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Peterson Energy
Date Printed: 25-Oct-2012



SYSDRILL
Well Design Combined Report
Wellbore: RANCHO WATER VALLEY 8 #8-7-33-000-4-NH (PWB)
Wellpath: RANCHO WATER VALLEY 8 #8-7-33-000-4-NH (PWP#1)

Targets

| Name | North[ft] | East[ft] | TVD[ft] | Latitude | Longitude | Northing | Easting | Last Revised |
|------------|-----------|----------|---------|----------------|-----------------|------------|------------|--------------|
| RWV 8 - T1 | 681.96N | 162.32E | 6755.00 | N40 26 14.4600 | W104 53 15.6480 | 1402755.41 | 3170442.15 | 19-Oct-2012 |
| RWV 8 - T2 | 2904.46N | 348.49W | 6755.00 | N40 26 36.4560 | W104 53 22.0560 | 1404977.81 | 3169931.36 | 19-Oct-2012 |
| RWV 8 - T3 | 5083.05N | 357.92W | 6755.00 | N40 26 57.9840 | W104 53 21.9840 | 1407156.32 | 3169921.93 | 19-Oct-2012 |

Survey Tool Program

| Reference | Survey Name | MD[ft] | TVD[ft] | Survey Tool | Error Model |
|-----------|-------------|----------|---------|---------------|-------------|
| 5234 | Planned | 11480.29 | 6755.00 | WdW Rate Gyro | Standard |

Notes



SYSDRILL

Closest Approach + Clearance Factor Summary Report

Wellbore: RANCHO WATER VALLEY 8 #8-7-33-000-4-NH (PWB)

Wellpath: RANCHO WATER VALLEY 8 #8-7-33-000-4-NH (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 |
|--|-------------|--------------|
| RANCHO WATER VALLEY 8 #8-7-33-000-4-NH (PWB) | 17-Oct-2012 | 25-Oct-2012 |

Well

| Name | Government ID | Last Revised |
|--|---------------|--------------|
| RANCHO WATER VALLEY 8 #8-7-33-000-4-NH | | 25-Oct-2012 |

Slot

| Name | Grid Northing | Grid Easting | Latitude | Longitude | North | East |
|---------|---------------|--------------|---------------|-----------------|-------|--------|
| Slot #8 | 1402073.4734 | 3170279.8384 | N40 26 7.7324 | W104 53 17.8080 | 0.00N | 64.03W |

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 7 #7-8-33-27 0-5-CH | RANCHO WATER VALLEY 7 #7-8-33-270-5 -CH (PWB) | Slot #7 | Rancho Water Valley | 16.70 | 1616.00 | 6659.70 | 14.16 | 1616.00 | 6.56 | 1640.02 |
| 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 | 16.70 | 2000.91 | 11480.29 | 13.71 | 2000.91 | 2.09 | 11480.29 |
| RANCHO WATER VALLEY 6 #0-7-4-270 -5-NH | RANCHO WATER VALLEY 6 #0-7-4-270-5 -NH (PWB) | Slot #6 | Rancho Water Valley | 23.90 | 2369.38 | 6500.37 | 20.10 | 2378.20 | 6.23 | 2411.01 |
| 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 | 24.09 | 7185.95 | 7185.95 | -2.28 | 7184.64 | 0.91 | 7184.64 |
| 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 | 30.15 | 2017.31 | 7043.11 | 26.93 | 2017.31 | 9.26 | 2066.52 |
| 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 | 47.32 | 1738.44 | 1738.44 | 44.64 | 1754.85 | 17.34 | 1820.46 |
| RANCHO WATER VALLEY #2-6-4 | RANCHO WATER VALLEY #2-6-4 (AWB) | Slot #3 | Rancho Water Valley | 48.83 | 811.21 | 811.21 | 46.10 | 816.00 | 16.99 | 885.42 |
| RANCHO WATER VALLEY 13 #7-6-33-27 0-6-CH | RANCHO WATER VALLEY 13 #7-6-33-270-6 -CH (PWB) | Slot #13 | Rancho Water Valley | 54.16 | 7813.31 | 7813.31 | 10.85 | 7816.00 | 1.25 | 7816.00 |
| RANCHO | RANCHO | Slot #12 | Rancho | 61.99 | 2017.31 | 7368.57 | 58.94 | 2017.31 | 4.70 | 7368.57 |

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 355.970 degrees

Prepared by Peterson Energy

Date Printed: 25-Oct-2012



SYSDRILL
Closest Approach + Clearance Factor Summary Report
Wellbore: RANCHO WATER VALLEY 8 #8-7-33-000-4-NH (PWB)
Wellpath: RANCHO WATER VALLEY 8 #8-7-33-000-4-NH (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] |
|---------------------------------------|---|-------------|---------------------|-----------------|---------|--------------------|-------------------------|----------------|------------------|------------------|
| WATER VALLEY 12 #7-7-33-270-4-NH | WATER VALLEY 12 #7-7-33-270-4-NH (PWB) | Slot #4 | Water Valley | | | | | | | |
| RANCHO WATER VALLEY 4 #7-1-4-270-4-NH | RANCHO WATER VALLEY 4 #7-1-4-270-4-NH (PWB) | | Rancho Water Valley | 64.03 | 1500.00 | 6316.00 | 61.63 | 1500.00 | 25.69 | 1705.63 |
| RANCHO WATER VALLEY 2-8-4 | RANCHO WATER VALLEY 2-8-4 (AWB) | | Rancho Water Valley | 83.10 | 1597.25 | 1597.25 | 79.70 | 1607.21 | 22.41 | 1754.85 |
| RANCHO WATER VALLEY #3-9-4 | RANCHO WATER VALLEY #3-9-4 (AWB) | Slot #1 | Rancho Water Valley | 114.19 | 17.00 | 516.00 | 113.56 | 540.93 | 49.49 | 967.44 |