



Standard Wellpath Report
 Sandridge
 Sec 11 - 35S - 10W, Kansas
 Barber County
 Wellbore: William 3510 4-11H (Actual)

Wellbore

| Name | Created | Last Revised |
|-----------------------------|-------------|--------------|
| William 3510 4-11H (Actual) | 10-Sep-2012 | 26-Sep-2012 |

Well

| Name | Government ID | Last Revised |
|--------------------|---------------|--------------|
| William 3510 4-11H | | 10-Sep-2012 |

Slot

| Name | Grid Northing | Grid Easting | Latitude | Longitude | North | East |
|--------------------|---------------|--------------|---------------|----------------|---------|----------|
| William 3510 4-11H | 129009.0000 | 2037518.0000 | N37 1 15.2318 | W98 22 17.4118 | 164.99S | 3558.80E |

Installation

| Name | Easting | Northing | Coord System Name | North Alignment |
|---------------|--------------|-------------|---|-----------------|
| Barber County | 2033959.0000 | 129174.0001 | KS-S on NORTH AMERICAN DATUM 1927 datum | Grid |

Field

| Name | Easting | Northing | Coord System Name | North Alignment |
|--------------------|--------------|-------------|---|-----------------|
| Sec 11 - 35S - 10W | 2033959.0000 | 129174.0001 | KS-S on NORTH AMERICAN DATUM 1927 datum | Grid |

| Created By |
|------------|
| |

| Comments |
|--|
| FINAL Surveys MD 9248 is a projection to bit @ TD |



Standard Wellpath Report
 Sandridge
 Sec 11 - 35S - 10W, Kansas
 Barber County
 Wellbore: William 3510 4-11H (Actual)

Wellpath (Grid) Report

| MD[ft] | Inc[deg] | Azi[deg] | TVD[ft] | North[ft] | East[ft] | Dogleg [deg/100ft] | Vertical Section[ft] | Easting | Northing |
|---------|----------|----------|---------|-----------|----------|-----------------------|-------------------------|------------|-----------|
| 0.00 | 0.00 | 0.000 | 0.00 | 0.00N | 0.00E | | 0.00 | 2037518.00 | 129009.00 |
| 966.00 | 0.30 | 310.800 | 966.00 | 1.65N | 1.91W | 0.03 | -1.59 | 2037516.09 | 129010.65 |
| 1151.00 | 0.30 | 271.700 | 1150.99 | 1.98N | 2.77W | 0.11 | -1.90 | 2037515.23 | 129010.98 |
| 1620.00 | 0.80 | 182.300 | 1619.98 | 1.25S | 4.12W | 0.18 | 1.38 | 2037513.88 | 129007.75 |
| 2092.00 | 2.30 | 287.600 | 2091.85 | 1.68S | 13.29W | 0.56 | 2.10 | 2037504.71 | 129007.32 |
| 2568.00 | 3.50 | 269.100 | 2567.24 | 0.98N | 36.92W | 0.32 | 0.18 | 2037481.08 | 129009.98 |
| 3041.00 | 4.10 | 277.600 | 3039.20 | 2.99N | 68.12W | 0.17 | -0.84 | 2037449.88 | 129011.99 |
| 3517.00 | 2.80 | 266.100 | 3514.33 | 4.45N | 96.58W | 0.31 | -1.40 | 2037421.41 | 129013.45 |
| 3870.00 | 2.90 | 244.800 | 3866.90 | 0.06N | 113.27W | 0.30 | 3.51 | 2037404.73 | 129009.06 |
| 3901.00 | 4.40 | 235.800 | 3897.84 | 0.94S | 114.96W | 5.17 | 4.56 | 2037403.03 | 129008.06 |
| 3932.00 | 5.60 | 232.400 | 3928.72 | 2.53S | 117.14W | 3.99 | 6.22 | 2037400.85 | 129006.47 |
| 3964.00 | 6.60 | 234.800 | 3960.54 | 4.55S | 119.88W | 3.22 | 8.32 | 2037398.11 | 129004.45 |
| 3995.00 | 7.80 | 235.400 | 3991.30 | 6.77S | 123.07W | 3.88 | 10.64 | 2037394.92 | 129002.23 |
| 4027.00 | 9.80 | 237.700 | 4022.92 | 9.46S | 127.16W | 6.34 | 13.46 | 2037390.83 | 128999.54 |
| 4059.00 | 11.60 | 241.100 | 4054.36 | 12.47S | 132.28W | 5.96 | 16.63 | 2037385.72 | 128996.53 |
| 4090.00 | 12.90 | 243.400 | 4084.65 | 15.52S | 138.10W | 4.48 | 19.87 | 2037379.89 | 128993.48 |
| 4123.00 | 14.40 | 239.500 | 4116.72 | 19.25S | 144.93W | 5.33 | 23.81 | 2037373.06 | 128989.74 |
| 4155.00 | 16.20 | 236.400 | 4147.59 | 23.74S | 152.08W | 6.18 | 28.52 | 2037365.91 | 128985.25 |
| 4187.00 | 18.00 | 233.500 | 4178.17 | 29.16S | 159.77W | 6.22 | 34.18 | 2037358.22 | 128979.84 |
| 4219.00 | 20.30 | 230.400 | 4208.40 | 35.64S | 168.02W | 7.86 | 40.91 | 2037349.97 | 128973.36 |
| 4251.00 | 22.90 | 228.900 | 4238.15 | 43.27S | 176.99W | 8.31 | 48.82 | 2037341.00 | 128965.73 |
| 4282.00 | 25.40 | 225.900 | 4266.44 | 51.86S | 186.32W | 8.98 | 57.71 | 2037331.67 | 128957.13 |
| 4315.00 | 27.30 | 221.400 | 4296.01 | 62.47S | 196.40W | 8.35 | 68.62 | 2037321.58 | 128946.53 |
| 4346.00 | 29.60 | 216.200 | 4323.27 | 73.98S | 205.63W | 10.90 | 80.42 | 2037312.36 | 128935.02 |
| 4378.00 | 32.30 | 211.600 | 4350.71 | 87.64S | 214.78W | 11.21 | 94.37 | 2037303.21 | 128921.35 |
| 4410.00 | 34.20 | 207.200 | 4377.48 | 102.93S | 223.37W | 9.59 | 109.92 | 2037294.61 | 128906.07 |
| 4442.00 | 35.60 | 201.900 | 4403.73 | 119.57S | 230.96W | 10.43 | 126.79 | 2037287.03 | 128889.42 |
| 4474.00 | 36.80 | 196.600 | 4429.56 | 137.41S | 237.17W | 10.47 | 144.81 | 2037280.81 | 128871.59 |
| 4506.00 | 37.80 | 191.400 | 4455.02 | 156.21S | 241.85W | 10.33 | 163.75 | 2037276.13 | 128852.78 |
| 4537.00 | 38.50 | 185.600 | 4479.40 | 175.13S | 244.67W | 11.77 | 182.75 | 2037273.31 | 128833.86 |
| 4569.00 | 40.40 | 182.600 | 4504.11 | 195.41S | 246.12W | 8.41 | 203.06 | 2037271.87 | 128813.58 |
| 4601.00 | 43.30 | 182.300 | 4527.95 | 216.74S | 247.03W | 9.08 | 224.41 | 2037270.96 | 128792.25 |
| 4632.00 | 46.10 | 182.500 | 4549.98 | 238.52S | 247.94W | 9.04 | 246.21 | 2037270.05 | 128770.47 |
| 4660.00 | 48.60 | 182.400 | 4568.95 | 259.09S | 248.82W | 8.93 | 266.80 | 2037269.17 | 128749.89 |
| 4759.00 | 48.10 | 180.800 | 4634.74 | 333.03S | 250.89W | 1.31 | 340.77 | 2037267.10 | 128745.95 |
| 4822.00 | 47.40 | 180.100 | 4677.10 | 379.67S | 251.26W | 1.38 | 387.39 | 2037266.73 | 128629.31 |
| 4854.00 | 49.00 | 181.500 | 4698.43 | 403.52S | 251.59W | 5.97 | 411.24 | 2037266.39 | 128605.46 |
| 4885.00 | 51.10 | 182.900 | 4718.34 | 427.26S | 252.51W | 7.61 | 435.00 | 2037265.48 | 128581.72 |
| 4917.00 | 54.00 | 184.000 | 4737.79 | 452.62S | 254.04W | 9.46 | 460.39 | 2037263.94 | 128556.36 |
| 4949.00 | 56.30 | 183.800 | 4756.08 | 478.81S | 255.83W | 7.21 | 486.64 | 2037262.16 | 128530.16 |
| 4980.00 | 59.80 | 183.900 | 4772.48 | 505.05S | 257.60W | 11.29 | 512.92 | 2037260.39 | 128503.92 |
| 5011.00 | 63.90 | 183.500 | 4787.10 | 532.32S | 259.36W | 13.27 | 540.23 | 2037258.63 | 128476.65 |
| 5040.00 | 67.60 | 183.400 | 4799.01 | 558.71S | 260.95W | 12.76 | 566.66 | 2037257.04 | 128450.26 |
| 5075.00 | 72.10 | 182.800 | 4811.07 | 591.51S | 262.72W | 12.96 | 599.50 | 2037255.26 | 128417.45 |
| 5107.00 | 75.80 | 181.800 | 4819.91 | 622.24S | 263.95W | 11.95 | 630.24 | 2037254.03 | 128386.73 |
| 5135.00 | 78.90 | 181.800 | 4826.04 | 649.54S | 264.81W | 11.07 | 657.56 | 2037253.17 | 128359.42 |
| 5171.00 | 82.70 | 180.700 | 4831.80 | 685.06S | 265.58W | 10.98 | 693.09 | 2037252.40 | 128323.90 |
| 5202.00 | 86.30 | 179.600 | 4834.77 | 715.91S | 265.66W | 12.14 | 723.93 | 2037252.32 | 128293.05 |
| 5234.00 | 89.40 | 179.100 | 4835.97 | 747.88S | 265.30W | 9.81 | 755.87 | 2037252.68 | 128261.07 |
| 5362.00 | 90.30 | 179.400 | 4836.30 | 875.87S | 263.63W | 0.74 | 883.74 | 2037254.36 | 128133.08 |
| 5455.00 | 90.20 | 176.400 | 4835.90 | 968.80S | 260.22W | 3.23 | 976.52 | 2037257.77 | 128040.15 |
| 5546.00 | 90.60 | 176.500 | 4835.26 | 1059.62S | 254.58W | 0.45 | 1067.12 | 2037263.40 | 127949.32 |
| 5638.00 | 91.00 | 176.200 | 4833.98 | 1151.42S | 248.73W | 0.54 | 1158.69 | 2037269.26 | 127857.51 |
| 5731.00 | 89.70 | 176.200 | 4833.41 | 1244.22S | 242.56W | 1.40 | 1251.24 | 2037275.42 | 127764.71 |
| 5824.00 | 90.30 | 175.600 | 4833.41 | 1336.98S | 235.92W | 0.91 | 1343.75 | 2037282.07 | 127671.95 |
| 5919.00 | 90.30 | 175.800 | 4832.91 | 1431.71S | 228.79W | 0.21 | 1438.21 | 2037289.19 | 127577.21 |
| 6011.00 | 90.70 | 174.900 | 4832.11 | 1523.40S | 221.33W | 1.07 | 1529.62 | 2037296.65 | 127485.51 |
| 6104.00 | 91.20 | 174.300 | 4830.57 | 1615.98S | 212.58W | 0.84 | 1621.87 | 2037305.40 | 127392.94 |
| 6197.00 | 91.10 | 175.600 | 4828.70 | 1708.59S | 204.40W | 1.40 | 1714.19 | 2037313.59 | 127300.31 |
| 6285.00 | 91.30 | 178.300 | 4826.86 | 1796.44S | 199.72W | 3.08 | 1801.84 | 2037318.27 | 127212.46 |
| 6381.00 | 92.00 | 179.500 | 4824.09 | 1892.38S | 197.88W | 1.45 | 1897.68 | 2037320.11 | 127116.51 |
| 6476.00 | 91.60 | 178.500 | 4821.11 | 1987.32S | 196.22W | 1.13 | 1992.51 | 2037321.77 | 127021.57 |
| 6572.00 | 92.00 | 179.100 | 4818.09 | 2083.25S | 194.21W | 0.75 | 2088.33 | 2037323.78 | 126925.63 |
| 6667.00 | 89.70 | 179.200 | 4816.69 | 2178.22S | 192.80W | 2.42 | 2183.22 | 2037325.19 | 126830.66 |
| 6762.00 | 88.50 | 179.100 | 4818.18 | 2273.20S | 191.39W | 1.27 | 2278.10 | 2037326.60 | 126735.68 |
| 6858.00 | 88.70 | 178.700 | 4820.52 | 2369.15S | 189.55W | 0.47 | 2373.95 | 2037328.44 | 126639.72 |
| 6953.00 | 89.20 | 178.900 | 4822.26 | 2464.12S | 187.56W | 0.57 | 2468.80 | 2037330.43 | 126544.75 |
| 7047.00 | 88.90 | 177.800 | 4823.82 | 2558.06S | 184.85W | 1.21 | 2562.62 | 2037333.14 | 126450.80 |
| 7142.00 | 89.60 | 177.600 | 4825.07 | 2652.98S | 181.04W | 0.77 | 2657.36 | 2037336.95 | 126355.88 |
| 7237.00 | 89.80 | 177.400 | 4825.56 | 2747.88S | 176.90W | 0.30 | 2752.09 | 2037341.09 | 126260.96 |

All data is in Feet unless otherwise stated
 Coordinates are from Slot MD's are from Slot and TVD's are from Slot (William 3510 4-11H 0.00ft above Mean Sea Level)
 Vertical Section is from 0.00N 0.00E on azimuth 181.810 degrees
 Bottom hole distance is 4759.40 Feet on azimuth 181.64 degrees from Wellhead
 Calculation method uses Minimum Curvature method
 Prepared by
 Date Printed: 26-Sep-2012



Standard Wellpath Report
 Sandridge
 Sec 11 - 35S - 10W, Kansas
 Barber County
 Wellbore: William 3510 4-11H (Actual)

Wellpath (Grid) Report

| MD[ft] | Inc[deg] | Azi[deg] | TVD[ft] | North[ft] | East[ft] | Dogleg [deg/100ft] | Vertical Section[ft] | Easting | Northing |
|---------|----------|----------|---------|-----------|----------|--------------------|----------------------|------------|-----------|
| 7334.00 | 91.00 | 177.300 | 4824.89 | 2844.78S | 172.41W | 1.24 | 2848.80 | 2037345.58 | 126164.07 |
| 7428.00 | 91.30 | 176.500 | 4823.00 | 2938.62S | 167.33W | 0.91 | 2942.43 | 2037350.66 | 126070.22 |
| 7523.00 | 90.30 | 177.400 | 4821.67 | 3033.47S | 162.28W | 1.42 | 3037.08 | 2037355.71 | 125975.36 |
| 7619.00 | 90.40 | 180.400 | 4821.09 | 3129.44S | 160.43W | 3.13 | 3132.94 | 2037357.56 | 125879.38 |
| 7713.00 | 90.50 | 179.800 | 4820.35 | 3223.44S | 160.60W | 0.65 | 3226.90 | 2037357.39 | 125785.38 |
| 7808.00 | 90.60 | 179.400 | 4819.44 | 3318.43S | 159.93W | 0.43 | 3321.82 | 2037358.06 | 125690.38 |
| 7902.00 | 88.50 | 178.700 | 4820.17 | 3412.41S | 158.38W | 2.35 | 3415.71 | 2037359.61 | 125596.40 |
| 7997.00 | 88.40 | 179.600 | 4822.74 | 3507.36S | 156.97W | 0.95 | 3510.57 | 2037361.02 | 125501.44 |
| 8091.00 | 88.60 | 180.400 | 4825.20 | 3601.33S | 156.97W | 0.88 | 3604.49 | 2037361.02 | 125407.47 |
| 8186.00 | 88.60 | 180.100 | 4827.53 | 3696.30S | 157.38W | 0.32 | 3699.43 | 2037360.61 | 125312.49 |
| 8281.00 | 88.90 | 179.900 | 4829.60 | 3791.28S | 157.38W | 0.38 | 3794.36 | 2037360.61 | 125217.51 |
| 8376.00 | 88.80 | 178.900 | 4831.50 | 3886.25S | 156.39W | 1.06 | 3889.25 | 2037361.60 | 125122.53 |
| 8473.00 | 90.40 | 179.300 | 4832.18 | 3983.24S | 154.86W | 1.70 | 3986.14 | 2037363.13 | 125025.54 |
| 8568.00 | 90.90 | 178.200 | 4831.10 | 4078.21S | 152.79W | 1.27 | 4080.99 | 2037365.20 | 124930.57 |
| 8664.00 | 91.30 | 177.300 | 4829.26 | 4174.11S | 149.02W | 1.03 | 4176.74 | 2037368.97 | 124834.66 |
| 8759.00 | 91.60 | 177.500 | 4826.86 | 4268.98S | 144.72W | 0.38 | 4271.42 | 2037373.28 | 124739.78 |
| 8854.00 | 90.40 | 179.200 | 4825.20 | 4363.93S | 141.98W | 2.19 | 4366.23 | 2037376.01 | 124644.83 |
| 8949.00 | 90.10 | 180.300 | 4824.78 | 4458.92S | 141.57W | 1.20 | 4461.17 | 2037376.43 | 124549.83 |
| 9044.00 | 89.30 | 179.400 | 4825.28 | 4553.92S | 141.32W | 1.27 | 4556.11 | 2037376.67 | 124454.83 |
| 9139.00 | 85.90 | 178.600 | 4829.26 | 4648.81S | 139.66W | 3.68 | 4650.90 | 2037378.33 | 124359.94 |
| 9200.00 | 85.60 | 178.100 | 4833.78 | 4709.61S | 137.91W | 0.95 | 4711.62 | 2037380.08 | 124299.13 |
| 9248.00 | 85.60 | 178.100 | 4837.46 | 4757.45S | 136.32W | ==> | 4759.38 | 2037381.67 | 124251.29 |

All data is in Feet unless otherwise stated
 Coordinates are from Slot MD's are from Slot and TVD's are from Slot (William 3510 4-11H 0.00ft above Mean Sea Level)
 Vertical Section is from 0.00N 0.00E on azimuth 181.810 degrees
 Bottom hole distance is 4759.40 Feet on azimuth 181.64 degrees from Wellhead
 Calculation method uses Minimum Curvature method
 Prepared by
 Date Printed: 26-Sep-2012



Standard Wellpath Report
Sandridge
Sec 11 - 35S - 10W, Kansas
Barber County
Wellbore: William 3510 4-11H (Actual)

Comments

| MD[ft] | TVD[ft] | North[ft] | East[ft] | Comment |
|---------|---------|-----------|----------|-------------------------------------|
| 9248.00 | 4837.46 | 4757.45S | 136.32W | MD 9248 is a projection to bit @ TD |

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Slot and TVD's are from Slot (William 3510 4-11H 0.00ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 181.810 degrees
Bottom hole distance is 4759.40 Feet on azimuth 181.64 degrees from Wellhead
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