



Standard Wellpath Report
Sandridge
Sec 35 - 34S - 10W, Kansas
Barber County
Wellbore: Circle 3410 2-35H (Actual)

Wellbore

| Name | Created | Last Revised |
|----------------------------|------------|--------------|
| Circle 3410 2-35H (Actual) | 6-May-2013 | 22-May-2013 |

Well

| Name | Government ID | Last Revised |
|-------------------|---------------|--------------|
| Circle 3410 2-35H | | 6-May-2013 |

Slot

| Name | Grid Northing | Grid Easting | Latitude | Longitude | North | East |
|-------------------|---------------|--------------|---------------|----------------|----------|----------|
| Circle 3410 2-35H | 137349.0000 | 2035703.0000 | N37 2 37.7139 | W98 22 39.6554 | 2426.88S | 1805.91E |

Installation

| Name | Easting | Northing | Coord System Name | North Alignment |
|---------------|--------------|-------------|---|-----------------|
| Barber County | 2033897.0000 | 139776.0001 | KS-S on NORTH AMERICAN DATUM 1927 datum | Grid |

Field

| Name | Easting | Northing | Coord System Name | North Alignment |
|--------------------|--------------|-------------|---|-----------------|
| Sec 35 - 34S - 10W | 2033897.0000 | 139776.0001 | KS-S on NORTH AMERICAN DATUM 1927 datum | Grid |

Created By

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Comments

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| FINAL Surveys MD 9259 is a projection to bit @ TD |
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Standard Wellpath Report
 Sandridge
 Sec 35 - 34S - 10W, Kansas
 Barber County
 Wellbore: Circle 3410 2-35H (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 | 2035703.00 | 137349.00 |
| 1025.00 | 0.30 | 253.800 | 1025.00 | 0.75S | 2.58W | 0.03 | -0.83 | 2035700.42 | 137348.25 |
| 1241.00 | 0.20 | 202.300 | 1240.99 | 1.26S | 3.26W | 0.11 | -1.35 | 2035699.74 | 137347.74 |
| 1708.00 | 0.20 | 275.800 | 1707.99 | 1.93S | 4.38W | 0.05 | -2.06 | 2035698.62 | 137347.07 |
| 2183.00 | 0.70 | 202.400 | 2182.98 | 4.53S | 6.31W | 0.14 | -4.72 | 2035696.69 | 137344.47 |
| 2658.00 | 1.10 | 201.200 | 2657.92 | 11.46S | 9.07W | 0.08 | -11.73 | 2035693.93 | 137337.54 |
| 3134.00 | 0.60 | 229.200 | 3133.87 | 17.35S | 12.61W | 0.13 | -17.73 | 2035690.39 | 137331.65 |
| 3503.00 | 0.80 | 32.800 | 3502.86 | 16.44S | 12.67W | 0.38 | -16.82 | 2035690.33 | 137332.55 |
| 3607.00 | 0.70 | 20.000 | 3606.85 | 15.24S | 12.06W | 0.19 | -15.60 | 2035690.94 | 137333.76 |
| 3703.00 | 0.60 | 27.900 | 3702.84 | 14.24S | 11.63W | 0.14 | -14.59 | 2035691.37 | 137334.76 |
| 3829.00 | 0.20 | 49.500 | 3828.84 | 13.52S | 11.15W | 0.33 | -13.85 | 2035691.85 | 137335.48 |
| 3860.00 | 0.60 | 43.800 | 3859.84 | 13.36S | 11.00W | 1.30 | -13.69 | 2035692.00 | 137335.64 |
| 3892.00 | 2.30 | 75.000 | 3891.83 | 13.08S | 10.26W | 5.67 | -13.38 | 2035692.74 | 137335.92 |
| 3924.00 | 4.70 | 73.900 | 3923.76 | 12.55S | 8.38W | 7.50 | -12.80 | 2035694.62 | 137336.45 |
| 3955.00 | 7.20 | 74.100 | 3954.59 | 11.66S | 5.29W | 8.06 | -11.82 | 2035697.71 | 137337.34 |
| 3987.00 | 9.80 | 73.900 | 3986.24 | 10.36S | 0.75W | 8.13 | -10.38 | 2035702.25 | 137338.64 |
| 4018.00 | 12.00 | 78.300 | 4016.68 | 8.97S | 4.94E | 7.58 | -8.82 | 2035707.94 | 137340.03 |
| 4050.00 | 13.80 | 82.700 | 4047.87 | 7.81S | 11.99E | 6.40 | -7.44 | 2035714.99 | 137341.19 |
| 4082.00 | 15.00 | 83.900 | 4078.87 | 6.89S | 19.89E | 3.86 | -6.28 | 2035722.89 | 137342.11 |
| 4114.00 | 15.90 | 82.900 | 4109.71 | 5.91S | 28.36E | 2.93 | -5.04 | 2035731.36 | 137343.09 |
| 4146.00 | 16.40 | 75.900 | 4140.45 | 4.26S | 37.09E | 6.28 | -3.13 | 2035740.09 | 137344.74 |
| 4177.00 | 17.40 | 69.000 | 4170.11 | 1.54S | 45.66E | 7.22 | -0.14 | 2035748.67 | 137347.46 |
| 4209.00 | 19.00 | 63.100 | 4200.51 | 2.54N | 54.78E | 7.62 | 4.21 | 2035757.78 | 137351.54 |
| 4241.00 | 20.30 | 57.000 | 4230.65 | 7.92N | 64.08E | 7.58 | 9.87 | 2035767.08 | 137356.92 |
| 4272.00 | 22.20 | 50.600 | 4259.55 | 14.56N | 73.12E | 9.66 | 16.79 | 2035776.12 | 137363.57 |
| 4304.00 | 24.20 | 44.900 | 4288.96 | 23.05N | 82.42E | 9.39 | 25.56 | 2035785.42 | 137372.05 |
| 4336.00 | 26.10 | 40.500 | 4317.93 | 33.05N | 91.62E | 8.33 | 35.84 | 2035794.63 | 137382.05 |
| 4367.00 | 28.10 | 35.900 | 4345.53 | 44.15N | 100.33E | 9.34 | 47.20 | 2035803.34 | 137393.15 |
| 4399.00 | 30.60 | 32.600 | 4373.42 | 57.12N | 109.14E | 9.30 | 60.43 | 2035812.15 | 137406.12 |
| 4431.00 | 32.50 | 28.900 | 4400.69 | 71.51N | 117.69E | 8.47 | 75.08 | 2035820.69 | 137420.51 |
| 4462.00 | 34.30 | 25.300 | 4426.57 | 86.70N | 125.45E | 8.63 | 90.50 | 2035828.45 | 137435.71 |
| 4494.00 | 36.20 | 22.200 | 4452.71 | 103.61N | 132.87E | 8.15 | 107.62 | 2035835.88 | 137452.61 |
| 4526.00 | 37.90 | 19.200 | 4478.25 | 121.64N | 139.68E | 7.75 | 125.85 | 2035842.68 | 137470.65 |
| 4557.00 | 40.00 | 17.300 | 4502.36 | 140.15N | 145.77E | 7.79 | 144.54 | 2035848.78 | 137489.15 |
| 4589.00 | 42.30 | 15.700 | 4526.45 | 160.34N | 151.74E | 7.90 | 164.90 | 2035854.75 | 137509.34 |
| 4620.00 | 44.80 | 14.100 | 4548.92 | 180.97N | 157.23E | 8.81 | 185.70 | 2035860.24 | 137529.98 |
| 4652.00 | 47.30 | 12.300 | 4571.12 | 203.40N | 162.48E | 8.80 | 208.28 | 2035865.49 | 137552.41 |
| 4684.00 | 49.00 | 11.000 | 4592.47 | 226.75N | 167.29E | 6.11 | 231.76 | 2035870.30 | 137575.76 |
| 4715.00 | 51.00 | 10.600 | 4612.40 | 250.07N | 171.74E | 6.53 | 255.21 | 2035874.75 | 137599.08 |
| 4747.00 | 52.90 | 10.300 | 4632.12 | 274.85N | 176.31E | 5.98 | 280.12 | 2035879.32 | 137623.87 |
| 4779.00 | 55.50 | 9.400 | 4650.84 | 300.42N | 180.75E | 8.44 | 305.81 | 2035883.75 | 137649.44 |
| 4811.00 | 58.10 | 8.800 | 4668.36 | 326.86N | 184.98E | 8.28 | 332.36 | 2035887.99 | 137675.88 |
| 4842.00 | 60.50 | 8.600 | 4684.19 | 353.21N | 189.01E | 7.76 | 358.82 | 2035892.02 | 137702.22 |
| 4874.00 | 62.80 | 7.600 | 4699.38 | 381.08N | 192.97E | 7.70 | 386.81 | 2035895.98 | 137730.10 |
| 4905.00 | 65.10 | 6.200 | 4712.99 | 408.73N | 196.32E | 8.46 | 414.54 | 2035899.33 | 137757.75 |
| 4936.00 | 67.70 | 4.800 | 4725.40 | 437.01N | 199.04E | 9.35 | 442.89 | 2035902.04 | 137786.03 |
| 4969.00 | 70.10 | 4.100 | 4737.28 | 467.70N | 201.42E | 7.54 | 473.64 | 2035904.43 | 137816.72 |
| 5001.00 | 72.40 | 2.300 | 4747.57 | 497.95N | 203.11E | 8.95 | 503.93 | 2035906.12 | 137846.97 |
| 5033.00 | 75.20 | 1.100 | 4756.50 | 528.66N | 204.02E | 9.46 | 534.65 | 2035907.03 | 137877.69 |
| 5064.00 | 78.10 | 1.300 | 4763.65 | 558.81N | 204.65E | 9.38 | 564.81 | 2035907.66 | 137907.84 |
| 5096.00 | 80.00 | 1.100 | 4769.73 | 590.22N | 205.31E | 5.97 | 596.22 | 2035908.32 | 137939.25 |
| 5128.00 | 82.30 | 0.400 | 4774.65 | 621.84N | 205.72E | 7.51 | 627.84 | 2035908.73 | 137970.87 |
| 5159.00 | 84.80 | 0.700 | 4778.14 | 652.64N | 206.02E | 8.12 | 658.63 | 2035909.03 | 138001.67 |
| 5191.00 | 87.40 | 359.600 | 4780.31 | 684.56N | 206.10E | 8.82 | 690.54 | 2035909.11 | 138033.59 |
| 5223.00 | 88.20 | 359.800 | 4781.54 | 716.53N | 205.93E | 2.58 | 722.50 | 2035908.94 | 138065.57 |
| 5254.00 | 88.50 | 359.700 | 4782.43 | 747.52N | 205.80E | 1.02 | 753.47 | 2035908.81 | 138096.56 |
| 5286.00 | 88.90 | 359.900 | 4783.16 | 779.51N | 205.69E | 1.40 | 785.44 | 2035908.70 | 138128.55 |
| 5317.00 | 89.10 | 359.500 | 4783.70 | 810.51N | 205.52E | 1.44 | 816.41 | 2035908.53 | 138159.55 |
| 5349.00 | 89.90 | 359.200 | 4783.98 | 842.50N | 205.16E | 2.67 | 848.38 | 2035908.17 | 138191.55 |
| 5381.00 | 90.40 | 358.900 | 4783.90 | 874.50N | 204.63E | 1.82 | 880.35 | 2035907.64 | 138223.54 |
| 5412.00 | 91.30 | 359.400 | 4783.44 | 905.49N | 204.17E | 3.32 | 911.31 | 2035907.18 | 138254.54 |
| 5444.00 | 91.00 | 359.500 | 4782.79 | 937.48N | 203.86E | 0.99 | 943.28 | 2035906.87 | 138286.53 |
| 5455.00 | 90.60 | 359.000 | 4782.64 | 948.48N | 203.72E | 5.82 | 954.27 | 2035906.73 | 138297.53 |
| 5539.00 | 89.10 | 358.700 | 4782.86 | 1032.46N | 202.03E | 1.82 | 1038.16 | 2035905.04 | 138381.51 |
| 5631.00 | 88.90 | 358.800 | 4784.47 | 1124.43N | 200.03E | 0.24 | 1130.02 | 2035903.04 | 138473.48 |
| 5723.00 | 89.60 | 358.800 | 4785.67 | 1216.40N | 198.10E | 0.76 | 1221.89 | 2035901.11 | 138565.46 |
| 5815.00 | 90.10 | 359.300 | 4785.91 | 1308.38N | 196.58E | 0.77 | 1313.78 | 2035899.59 | 138657.45 |
| 5908.00 | 89.90 | 358.700 | 4785.91 | 1401.37N | 194.95E | 0.68 | 1406.68 | 2035897.96 | 138750.44 |
| 5999.00 | 90.00 | 359.200 | 4785.99 | 1492.35N | 193.29E | 0.56 | 1497.57 | 2035896.29 | 138841.43 |
| 6091.00 | 89.00 | 359.300 | 4786.79 | 1584.34N | 192.08E | 1.09 | 1589.47 | 2035895.09 | 138933.42 |

All data is in Feet unless otherwise stated
 Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Circle 3410 2-35H 0.00ft above Mean Sea Level)
 Vertical Section is from 0.00N 0.00E on azimuth 1.750 degrees
 Bottom hole distance is 4752.94 Feet on azimuth 1.71 degrees from Wellhead
 Calculation method uses Minimum Curvature method
 Prepared by
 Date Printed: 22-May-2013



Standard Wellpath Report
 Sandridge
 Sec 35 - 34S - 10W, Kansas
 Barber County
 Wellbore: Circle 3410 2-35H (Actual)

Wellpath (Grid) Report

| MD[ft] | Inc[deg] | Azi[deg] | TVD[ft] | North[ft] | East[ft] | Dogleg [deg/100ft] | Vertical Section[ft] | Easting | Northing |
|---------|----------|----------|---------|-----------|----------|--------------------|----------------------|------------|-----------|
| 6183.00 | 90.10 | 359.600 | 4787.52 | 1676.33N | 191.20E | 1.24 | 1681.40 | 2035894.21 | 139025.42 |
| 6275.00 | 89.40 | 0.000 | 4787.92 | 1768.33N | 190.88E | 0.88 | 1773.34 | 2035893.89 | 139117.42 |
| 6367.00 | 90.30 | 359.800 | 4788.16 | 1860.33N | 190.72E | 1.00 | 1865.29 | 2035893.73 | 139209.42 |
| 6458.00 | 91.60 | 359.800 | 4786.65 | 1951.31N | 190.40E | 1.43 | 1956.22 | 2035893.41 | 139300.41 |
| 6554.00 | 90.60 | 359.300 | 4784.81 | 2047.29N | 189.64E | 1.16 | 2052.13 | 2035892.65 | 139396.39 |
| 6649.00 | 90.40 | 359.500 | 4783.98 | 2142.28N | 188.65E | 0.30 | 2147.05 | 2035891.66 | 139491.39 |
| 6745.00 | 91.20 | 358.800 | 4782.64 | 2238.26N | 187.23E | 1.11 | 2242.94 | 2035890.24 | 139587.37 |
| 6841.00 | 92.30 | 358.700 | 4779.71 | 2334.19N | 185.13E | 1.15 | 2338.76 | 2035888.14 | 139683.31 |
| 6936.00 | 92.90 | 359.000 | 4775.40 | 2429.08N | 183.23E | 0.71 | 2433.54 | 2035886.24 | 139778.19 |
| 7031.00 | 92.80 | 359.000 | 4770.67 | 2523.94N | 181.57E | 1.11 | 2528.32 | 2035884.58 | 139873.07 |
| 7126.00 | 91.40 | 359.300 | 4767.19 | 2618.87N | 180.16E | 0.51 | 2623.15 | 2035883.17 | 139968.00 |
| 7220.00 | 91.40 | 359.300 | 4764.90 | 2712.83N | 179.02E | ==> | 2717.04 | 2035882.02 | 140061.97 |
| 7315.00 | 89.90 | 358.100 | 4763.82 | 2807.80N | 176.86E | 2.02 | 2811.89 | 2035879.87 | 140156.93 |
| 7411.00 | 90.10 | 358.600 | 4763.82 | 2903.76N | 174.10E | 0.56 | 2907.72 | 2035877.11 | 140252.90 |
| 7506.00 | 90.10 | 358.300 | 4763.65 | 2998.72N | 171.53E | 0.32 | 3002.56 | 2035874.54 | 140347.87 |
| 7601.00 | 90.00 | 358.200 | 4763.57 | 3093.68N | 168.63E | 0.15 | 3097.39 | 2035871.63 | 140442.83 |
| 7696.00 | 90.10 | 358.500 | 4763.49 | 3188.64N | 165.89E | 0.33 | 3192.22 | 2035868.90 | 140537.79 |
| 7792.00 | 90.60 | 358.500 | 4762.90 | 3284.60N | 163.38E | 0.52 | 3288.06 | 2035866.39 | 140633.76 |
| 7888.00 | 89.90 | 357.800 | 4762.48 | 3380.55N | 160.28E | 1.03 | 3383.87 | 2035863.29 | 140729.72 |
| 7984.00 | 89.80 | 358.500 | 4762.73 | 3476.50N | 157.18E | 0.74 | 3479.68 | 2035860.19 | 140825.67 |
| 8079.00 | 89.40 | 358.300 | 4763.40 | 3571.46N | 154.53E | 0.47 | 3574.51 | 2035857.53 | 140920.64 |
| 8174.00 | 89.50 | 357.500 | 4764.31 | 3666.39N | 151.05E | 0.85 | 3669.29 | 2035854.05 | 141015.57 |
| 8268.00 | 90.30 | 358.700 | 4764.47 | 3760.34N | 147.93E | 1.53 | 3763.10 | 2035850.94 | 141109.52 |
| 8364.00 | 90.40 | 359.300 | 4763.88 | 3856.32N | 146.25E | 0.63 | 3858.99 | 2035849.26 | 141205.51 |
| 8458.00 | 91.50 | 359.800 | 4762.33 | 3950.30N | 145.52E | 1.29 | 3952.90 | 2035848.52 | 141299.50 |
| 8553.00 | 92.00 | 359.600 | 4759.43 | 4045.26N | 145.02E | 0.57 | 4047.80 | 2035848.03 | 141394.46 |
| 8649.00 | 91.10 | 359.800 | 4756.83 | 4141.22N | 144.52E | 0.96 | 4143.70 | 2035847.52 | 141490.42 |
| 8742.00 | 91.80 | 359.100 | 4754.48 | 4234.18N | 143.62E | 1.06 | 4236.59 | 2035846.63 | 141583.39 |
| 8837.00 | 90.10 | 359.000 | 4752.90 | 4329.15N | 142.05E | 1.79 | 4331.47 | 2035845.06 | 141678.37 |
| 8932.00 | 92.30 | 359.700 | 4750.91 | 4424.12N | 140.97E | 2.43 | 4426.36 | 2035843.98 | 141773.34 |
| 9027.00 | 92.10 | 0.000 | 4747.26 | 4519.05N | 140.72E | 0.38 | 4521.24 | 2035843.73 | 141868.27 |
| 9122.00 | 91.90 | 0.200 | 4743.95 | 4613.99N | 140.89E | 0.30 | 4616.14 | 2035843.90 | 141963.22 |
| 9214.00 | 93.20 | 0.400 | 4739.86 | 4705.90N | 141.37E | 1.43 | 4708.02 | 2035844.38 | 142055.13 |
| 9259.00 | 93.20 | 0.400 | 4737.34 | 4750.83N | 141.68E | ==> | 4752.94 | 2035844.69 | 142100.06 |

All data is in Feet unless otherwise stated
 Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Circle 3410 2-35H 0.00ft above Mean Sea Level)
 Vertical Section is from 0.00N 0.00E on azimuth 1.750 degrees
 Bottom hole distance is 4752.94 Feet on azimuth 1.71 degrees from Wellhead
 Calculation method uses Minimum Curvature method
 Prepared by
 Date Printed: 22-May-2013



Standard Wellpath Report
Sandridge
Sec 35 - 34S - 10W, Kansas
Barber County
Wellbore: Circle 3410 2-35H (Actual)

Comments

| MD[ft] | TVD[ft] | North[ft] | East[ft] | Comment |
|---------|---------|-----------|----------|------------------------|
| 9259.00 | 4737.34 | 4750.83N | 141.68E | 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 (Circle 3410 2-35H 0.00ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 1.750 degrees
Bottom hole distance is 4752.94 Feet on azimuth 1.71 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
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