



Standard Wellpath Report  
Sandridge  
Sec 7 - 34S - 6W, Kansas  
Harper County  
Wellbore: Turner 3406 4-7H (Actual ST)

**Wellbore**

Name	Created	Last Revised
Turner 3406 4-7H (Actual ST)	12-Apr-2013	23-Apr-2013

**Well**

Name	Government ID	Last Revised
Turner 3406 4-7H		18-Mar-2013

**Slot**

Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Turner 3406 4-7H	156310.0000	2140345.0000	N37 5 41.8341	W98 1 7.8559	169.99N	4973.82W

**Installation**

Name	Easting	Northing	Coord System Name	North Alignment
Harper County	2145319.0000	156140.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

**Field**

Name	Easting	Northing	Coord System Name	North Alignment
Sec 7 - 34S - 6W	2145319.0000	156140.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

**Created By**

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**Comments**

FINAL Surveys MD 8500 is a projection to bit @ TD
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Sec 7 - 34S - 6W, Kansas  
Harper County  
Wellbore: Turner 3406 4-7H (Actual ST)

**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	2140345.00	156310.00
1053.00	1.00	217.000	1052.95	7.34S	5.53W	0.09	-7.42	2140339.47	156302.66
1420.00	0.80	288.800	1419.91	9.07S	9.88W	0.29	-9.22	2140335.12	156300.93
1895.00	0.40	194.200	1894.89	9.61S	13.43W	0.19	-9.81	2140331.57	156300.39
2369.00	0.40	187.700	2368.88	12.85S	14.06W	==>	-13.07	2140330.94	156297.15
2844.00	0.40	71.600	2843.88	13.97S	12.71W	0.14	-14.17	2140332.29	156296.03
3129.00	0.90	100.100	3128.86	14.05S	9.56W	0.20	-14.20	2140335.44	156295.95
3224.00	0.90	103.600	3223.84	14.36S	8.10W	0.06	-14.48	2140336.90	156295.64
3319.00	0.70	69.200	3318.84	14.33S	6.83W	0.54	-14.43	2140338.17	156295.67
3414.00	0.80	80.500	3413.83	14.01S	5.63W	0.19	-14.10	2140339.37	156295.99
3509.00	0.20	358.400	3508.82	13.74S	4.98W	0.84	-13.81	2140340.02	156296.26
3603.00	2.00	131.000	3602.81	14.65S	3.75W	2.28	-14.70	2140341.25	156295.35
3667.00	1.80	134.300	3666.77	16.08S	2.19W	0.36	-16.11	2140342.81	156293.92
3699.00	1.80	117.900	3698.76	16.67S	1.38W	1.60	-16.69	2140343.62	156293.33
3730.00	2.30	63.400	3729.74	16.62S	0.40W	6.22	-16.62	2140344.60	156293.38
3762.00	4.40	35.100	3761.68	15.33S	0.88E	8.17	-15.31	2140345.88	156294.67
3794.00	6.40	24.700	3793.54	12.70S	2.33E	6.93	-12.66	2140347.33	156297.30
3825.00	7.90	19.400	3824.30	9.12S	3.76E	5.28	-9.06	2140348.76	156300.88
3857.00	9.30	22.400	3855.94	4.66S	5.48E	4.59	-4.57	2140350.48	156305.34
3889.00	10.80	26.400	3887.45	0.42N	7.80E	5.17	0.54	2140352.80	156310.42
3920.00	12.70	24.600	3917.80	6.12N	10.51E	6.24	6.28	2140355.51	156316.12
3952.00	14.50	21.600	3948.90	13.04N	13.45E	6.04	13.25	2140358.45	156323.04
3984.00	16.40	21.900	3979.74	20.96N	16.61E	5.94	21.21	2140361.61	156330.96
4015.00	19.00	21.400	4009.27	29.72N	20.08E	8.40	30.03	2140365.08	156339.72
4047.00	21.10	19.300	4039.33	40.01N	23.89E	6.94	40.37	2140368.89	156350.01
4079.00	24.00	17.100	4068.88	51.67N	27.70E	9.44	52.09	2140372.71	156361.67
4110.00	26.70	14.200	4096.89	64.45N	31.27E	9.58	64.92	2140376.27	156374.45
4142.00	29.50	12.600	4125.12	79.11N	34.75E	9.06	79.63	2140379.75	156389.11
4173.00	31.10	12.300	4151.88	94.38N	38.12E	5.18	94.96	2140383.12	156404.38
4205.00	32.80	13.200	4179.04	110.90N	41.86E	5.52	111.53	2140386.86	156420.90
4237.00	35.80	14.200	4205.47	128.41N	46.14E	9.54	129.11	2140391.14	156438.42
4268.00	38.00	14.900	4230.26	146.43N	50.82E	7.23	147.19	2140395.82	156456.43
4300.00	39.60	16.400	4255.20	165.73N	56.23E	5.80	166.57	2140401.23	156475.74
4332.00	41.10	16.900	4279.58	185.58N	62.17E	4.80	186.51	2140407.17	156495.59
4363.00	43.10	17.300	4302.58	205.44N	68.28E	6.51	206.47	2140413.28	156515.45
4395.00	45.00	16.700	4325.58	226.72N	74.78E	6.08	227.84	2140419.78	156536.73
4427.00	47.20	17.600	4347.77	248.75N	81.58E	7.17	249.97	2140426.59	156558.76
4458.00	47.20	17.700	4368.83	270.42N	88.48E	0.24	271.75	2140433.48	156580.43
4553.00	46.60	17.500	4433.74	336.54N	109.45E	0.65	338.18	2140454.46	156646.55
4648.00	43.90	16.100	4500.62	401.11N	128.97E	3.03	403.05	2140473.97	156711.13
4680.00	45.00	15.600	4523.46	422.67N	135.09E	3.61	424.70	2140480.09	156732.69
4711.00	47.70	15.500	4544.86	444.28N	141.10E	8.71	446.39	2140486.11	156754.30
4742.00	49.00	17.700	4565.46	466.47N	147.72E	6.76	468.69	2140492.73	156776.49
4774.00	51.60	19.100	4585.90	489.83N	155.50E	8.79	492.16	2140500.50	156799.85
4806.00	56.10	19.000	4604.77	514.25N	163.93E	14.06	516.71	2140508.94	156828.27
4837.00	60.60	19.700	4621.04	539.14N	172.67E	14.64	541.73	2140517.68	156849.16
4869.00	64.90	20.100	4635.68	565.88N	182.36E	13.48	568.62	2140527.36	156875.90
4900.00	68.48	20.390	4647.95	592.59N	192.21E	11.59	595.47	2140537.22	156902.61
4997.00	76.30	28.400	4677.31	676.58N	230.46E	11.26	680.05	2140575.46	156986.61
5060.00	80.10	12.300	4690.27	734.21N	251.77E	25.72	737.99	2140596.77	157044.24
5092.00	80.40	12.800	4695.69	764.99N	258.62E	1.80	768.88	2140603.63	157075.02
5124.00	81.40	12.500	4700.75	795.82N	265.54E	3.26	799.81	2140610.55	157105.85
5155.00	85.30	11.600	4704.34	825.93N	271.96E	12.91	830.01	2140616.97	157135.96
5187.00	88.60	12.000	4706.05	857.20N	278.50E	10.39	861.38	2140623.51	157167.24
5218.00	90.60	12.500	4706.26	887.50N	285.07E	6.65	891.77	2140630.08	157197.53
5250.00	91.90	13.400	4705.56	918.67N	292.24E	4.94	923.06	2140637.25	157228.71
5282.00	92.70	12.100	4704.28	949.86N	299.30E	4.77	954.35	2140644.31	157259.89
5313.00	93.10	10.400	4702.71	980.22N	305.34E	5.63	984.80	2140650.35	157290.26
5345.00	92.80	8.200	4701.06	1011.76N	310.50E	6.93	1016.41	2140655.52	157321.80
5377.00	91.60	5.900	4699.84	1043.49N	314.43E	8.10	1048.20	2140659.44	157353.53
5408.00	91.60	4.400	4698.97	1074.35N	317.21E	4.84	1079.10	2140662.22	157384.39
5440.00	93.10	2.200	4697.66	1106.27N	319.05E	8.32	1111.04	2140664.06	157416.31
5472.00	94.50	0.700	4695.54	1138.19N	319.86E	6.40	1142.97	2140664.87	157448.23
5503.00	94.80	359.200	4693.02	1169.08N	319.83E	4.92	1173.86	2140664.84	157479.13
5535.00	94.70	358.300	4690.37	1200.97N	319.14E	2.82	1205.73	2140664.15	157511.01
5567.00	94.80	356.600	4687.72	1232.82N	317.72E	5.30	1237.56	2140662.73	157542.87
5598.00	94.90	354.800	4685.10	1263.62N	315.40E	5.79	1268.32	2140660.41	157573.67
5630.00	94.80	353.900	4682.40	1295.36N	312.26E	2.82	1300.00	2140657.27	157605.40
5662.00	95.10	353.700	4679.64	1327.05N	308.82E	1.13	1331.64	2140653.83	157637.10
5693.00	95.40	353.400	4676.80	1357.72N	305.35E	1.37	1362.26	2140650.36	157667.77

All data is in Feet unless otherwise stated  
Coordinates are from Slot MD's are from Slot and TVD's are from Slot ( Turner 3406 4-7H 0.00ft above Mean Sea Level )  
Vertical Section is from 0.00N 0.00E on azimuth 0.880 degrees  
Bottom hole distance is 4156.27 Feet on azimuth 1.85 degrees from Wellhead  
Calculation method uses Minimum Curvature method  
Prepared by  
Date Printed: 23-Apr-2013



Standard Wellpath Report  
 Sandridge  
 Sec 7 - 34S - 6W, Kansas  
 Harper County  
 Wellbore: Turner 3406 4-7H (Actual ST)

Wellpath (Grid) Report

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Easting	Northing
5725.00	96.10	354.100	4673.59	1389.37N	301.89E	3.09	1393.85	2140646.90	157699.42
5757.00	94.70	352.600	4670.58	1421.02N	298.20E	6.40	1425.43	2140643.21	157731.07
5788.00	93.30	353.100	4668.42	1451.70N	294.35E	4.79	1456.05	2140639.36	157761.75
5820.00	93.00	353.800	4666.66	1483.44N	290.70E	2.38	1487.73	2140635.71	157793.49
5852.00	93.00	352.700	4664.99	1515.18N	286.95E	3.43	1519.41	2140631.96	157825.23
5883.00	93.30	353.100	4663.28	1545.89N	283.12E	1.61	1550.06	2140628.13	157855.95
5915.00	93.40	352.300	4661.41	1577.58N	279.06E	2.52	1581.68	2140624.07	157887.63
5947.00	93.60	352.800	4659.46	1609.25N	274.92E	1.68	1613.28	2140619.93	157919.31
5978.00	93.80	353.100	4657.46	1639.95N	271.12E	1.16	1643.92	2140616.13	157950.01
6010.00	94.00	352.600	4655.28	1671.63N	267.15E	1.68	1675.53	2140612.16	157981.69
6042.00	94.30	351.200	4652.97	1703.22N	262.65E	4.46	1707.06	2140607.66	158013.29
6073.00	94.50	351.800	4650.59	1733.79N	258.08E	2.03	1737.55	2140603.09	158043.86
6105.00	93.40	353.000	4648.38	1765.43N	253.86E	5.08	1769.13	2140598.87	158075.50
6136.00	93.10	350.000	4646.63	1796.04N	249.29E	9.71	1799.66	2140594.30	158106.11
6168.00	93.00	350.200	4644.92	1827.52N	243.79E	0.70	1831.05	2140588.80	158137.59
6200.00	93.20	353.800	4643.19	1859.16N	239.35E	11.25	1862.62	2140584.36	158169.22
6263.00	91.60	355.500	4640.55	1921.82N	233.48E	3.70	1925.18	2140578.49	158231.89
6295.00	90.30	356.600	4640.02	1953.74N	231.28E	5.32	1957.07	2140576.28	158263.81
6326.00	90.20	358.200	4639.89	1984.71N	229.87E	5.17	1988.01	2140574.88	158294.78
6389.00	90.50	357.400	4639.50	2047.66N	227.45E	1.36	2050.91	2140572.46	158357.73
6421.00	90.50	358.500	4639.22	2079.64N	226.31E	3.44	2082.87	2140571.31	158389.71
6453.00	90.30	357.600	4639.00	2111.62N	225.22E	2.88	2114.83	2140570.23	158421.70
6484.00	89.50	356.100	4639.05	2142.57N	223.51E	5.48	2145.75	2140568.52	158452.65
6516.00	89.70	357.800	4639.28	2174.52N	221.81E	5.35	2177.68	2140566.82	158484.60
6548.00	90.10	355.900	4639.33	2206.47N	220.05E	6.07	2209.59	2140565.06	158516.55
6579.00	90.30	356.100	4639.22	2237.40N	217.89E	0.91	2240.48	2140562.90	158547.48
6611.00	90.40	355.000	4639.03	2269.30N	215.41E	3.45	2272.34	2140560.42	158579.38
6642.00	90.30	355.700	4638.84	2300.20N	212.89E	2.28	2303.20	2140557.90	158610.28
6674.00	90.20	355.900	4638.70	2332.11N	210.55E	0.70	2335.07	2140555.56	158642.20
6737.00	90.30	354.300	4638.43	2394.88N	205.17E	2.54	2397.75	2140550.18	158704.96
6832.00	90.30	353.800	4637.93	2489.36N	195.32E	0.53	2492.07	2140540.33	158799.45
6927.00	89.30	352.300	4638.26	2583.66N	183.83E	1.90	2586.18	2140528.83	158893.76
7022.00	92.90	354.500	4636.44	2677.99N	172.91E	4.44	2680.33	2140517.92	158988.09
7117.00	93.70	356.300	4630.97	2772.53N	165.31E	2.07	2774.74	2140510.31	159082.63
7174.00	94.30	356.300	4626.99	2829.27N	161.64E	1.05	2831.42	2140506.64	159139.37
7237.00	93.20	355.900	4622.87	2891.99N	157.36E	1.86	2894.06	2140502.37	159202.09
7332.00	91.40	358.600	4619.06	2986.79N	152.81E	3.41	2988.78	2140497.81	159296.90
7395.00	89.40	359.000	4618.62	3049.77N	151.49E	3.24	3051.74	2140496.49	159359.88
7427.00	89.10	359.100	4619.04	3081.76N	150.96E	0.99	3083.72	2140495.96	159391.87
7522.00	86.90	1.000	4622.35	3176.69N	151.04E	3.06	3178.64	2140496.05	159486.81
7617.00	89.40	0.700	4625.42	3271.63N	152.45E	2.65	3273.58	2140497.45	159581.75
7712.00	90.10	0.200	4625.83	3366.62N	153.19E	0.91	3368.58	2140498.20	159676.74
7807.00	90.10	359.600	4625.67	3461.62N	153.03E	0.63	3463.56	2140498.03	159771.75
7902.00	90.60	0.400	4625.09	3556.62N	153.03E	0.99	3558.55	2140498.03	159866.75
7997.00	91.10	359.300	4623.68	3651.61N	152.78E	1.27	3653.52	2140497.79	159961.74
8092.00	91.80	358.900	4621.27	3746.56N	151.29E	0.85	3748.45	2140496.29	160056.70
8187.00	91.40	357.900	4618.62	3841.49N	148.64E	1.13	3843.32	2140493.64	160151.63
8282.00	91.10	357.300	4616.55	3936.38N	144.66E	0.71	3938.14	2140489.67	160246.52
8377.00	91.00	357.400	4614.81	4031.26N	140.27E	0.15	4032.94	2140485.27	160341.41
8453.00	90.60	357.100	4613.75	4107.17N	136.62E	0.66	4108.78	2140481.63	160417.32
8500.00	90.60	357.100	4613.25	4154.11N	134.24E	==>	4155.68	2140479.25	160464.26

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 Bottom hole distance is 4156.27 Feet on azimuth 1.85 degrees from Wellhead  
 Calculation method uses Minimum Curvature method  
 Prepared by  
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Sec 7 - 34S - 6W, Kansas  
Harper County  
Wellbore: Turner 3406 4-7H (Actual ST)

**Comments**

MD[ft]	TVD[ft]	North[ft]	East[ft]	Comment
8500.00	4613.25	4154.11N	134.24E	Projection to bit @ TD

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