



Standard Wellpath Report  
 Sandridge  
 Sec 27 - 33S - 6W, Kansas  
 Harper County  
 Wellbore: Jefferson 3306 1-27H (Actual ST)

**Wellbore**

Name	Created	Last Revised
Jefferson 3306 1-27H (Actual ST)	5-Jul-2013	8-Jul-2013

**Well**

Name	Government ID	Last Revised
Jefferson 3306 1-27H		19-Jun-2013

**Slot**

Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Jefferson 3306 1-27H	172374.0000	2159785.0000	N37 8 19.5976	W97 57 6.7662	180.00N	1245.97W

**Installation**

Name	Easting	Northing	Coord System Name	North Alignment
Harper County	2161031.0000	172194.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

**Field**

Name	Easting	Northing	Coord System Name	North Alignment
Sec 27 - 33S - 6W	2161031.0000	172194.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Created By

Comments
<p>FINAL Surveys:            MD 8865 is a projection to bit @ TD</p>



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Sandridge  
Sec 27 - 33S - 6W, Kansas  
Harper County  
Wellbore: Jefferson 3306 1-27H (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	2159785.00	172374.00
719.00	0.50	306.600	718.99	1.87N	2.52W	0.07	1.93	2159782.48	172375.87
968.00	0.70	229.800	967.98	1.54N	4.55W	0.31	1.64	2159780.45	172375.54
1244.00	0.70	287.700	1243.96	0.96N	7.45W	0.25	1.13	2159777.55	172374.96
1712.00	0.40	293.300	1711.94	2.48N	11.67W	0.07	2.75	2159773.33	172376.48
2188.00	0.40	350.900	2187.93	4.77N	13.46W	0.08	5.09	2159771.54	172378.77
2663.00	0.20	295.500	2662.93	6.77N	14.47W	0.07	7.10	2159770.53	172380.77
3136.00	0.20	6.700	3135.92	7.94N	15.12W	0.05	8.29	2159769.88	172381.94
3611.00	1.30	133.000	3610.89	5.09N	11.08W	0.30	5.35	2159773.92	172379.09
3643.00	1.40	132.600	3642.88	4.58N	10.53W	0.31	4.82	2159774.47	172378.58
3675.00	1.10	114.400	3674.87	4.19N	9.96W	1.54	4.42	2159775.04	172378.19
3706.00	1.40	46.200	3705.86	4.33N	9.42W	4.59	4.55	2159775.58	172378.33
3738.00	3.50	16.500	3737.83	5.53N	8.86W	7.46	5.74	2159776.14	172379.53
3769.00	5.90	4.900	3768.73	8.03N	8.45W	8.29	8.22	2159776.55	172382.03
3801.00	8.00	3.300	3800.49	11.89N	8.18W	6.59	12.08	2159776.82	172385.89
3832.00	9.50	4.900	3831.13	16.59N	7.84W	4.90	16.77	2159777.16	172390.60
3864.00	11.20	357.300	3862.61	22.33N	7.76W	6.80	22.51	2159777.24	172396.33
3895.00	13.70	355.000	3892.88	29.00N	8.22W	8.22	29.18	2159776.78	172403.00
3927.00	16.40	353.500	3923.78	37.26N	9.06W	8.52	37.46	2159775.94	172411.26
3959.00	19.00	353.300	3954.26	46.92N	10.18W	8.13	47.15	2159774.82	172420.93
3990.00	20.40	354.300	3983.44	57.31N	11.31W	4.65	57.56	2159773.69	172431.31
4022.00	22.50	353.400	4013.23	68.95N	12.57W	6.64	69.22	2159772.43	172442.95
4053.00	24.90	353.100	4041.61	81.32N	14.03W	7.75	81.62	2159770.97	172455.32
4086.00	26.50	353.000	4071.34	95.52N	15.76W	4.85	95.87	2159769.23	172469.53
4118.00	28.70	354.000	4099.70	110.25N	17.44W	7.03	110.63	2159767.56	172484.26
4150.00	30.80	354.400	4127.48	126.05N	19.04W	6.59	126.46	2159765.96	172500.05
4182.00	33.50	354.300	4154.57	142.99N	20.72W	8.44	143.44	2159764.28	172517.00
4213.00	36.30	353.700	4179.99	160.63N	22.57W	9.10	161.11	2159762.42	172534.64
4245.00	38.30	353.400	4205.45	179.90N	24.75W	6.28	180.43	2159760.25	172553.90
4277.00	40.50	353.600	4230.17	200.08N	27.05W	6.89	200.66	2159757.95	172574.08
4308.00	43.20	353.600	4253.26	220.63N	29.36W	8.71	221.26	2159755.64	172594.64
4339.00	46.30	353.700	4275.28	242.32N	31.77W	10.00	242.99	2159753.23	172616.33
4371.00	48.90	354.100	4296.85	265.81N	34.28W	8.18	266.54	2159750.72	172639.82
4402.00	50.80	353.800	4316.84	289.38N	36.78W	6.17	290.15	2159748.22	172663.38
4434.00	52.80	353.900	4336.63	314.38N	39.47W	6.25	315.21	2159745.53	172688.39
4466.00	55.80	354.400	4355.30	340.23N	42.12W	9.46	341.11	2159742.88	172714.23
4498.00	59.90	354.500	4372.32	367.19N	44.74W	12.82	368.13	2159740.26	172741.20
4530.00	63.00	353.900	4387.62	395.15N	47.58W	9.83	396.15	2159737.42	172769.16
4562.00	65.70	354.000	4401.47	423.83N	50.62W	8.44	424.89	2159734.38	172797.84
4593.00	69.00	353.900	4413.40	452.28N	53.63W	10.65	453.40	2159731.36	172826.29
4625.00	72.20	353.700	4424.03	482.28N	56.89W	10.02	483.47	2159728.10	172856.29
4657.00	74.60	353.600	4433.17	512.75N	60.29W	7.51	514.02	2159724.71	172886.77
4688.00	76.90	354.100	4440.80	542.63N	63.50W	7.58	543.96	2159721.49	172916.64
4720.00	79.70	354.500	4447.29	573.80N	66.62W	8.84	575.20	2159718.38	172947.82
4752.00	81.80	354.400	4452.44	605.24N	69.67W	6.57	606.70	2159715.33	172979.25
4784.00	83.80	354.100	4456.45	636.82N	72.85W	6.32	638.35	2159712.15	173010.84
4815.00	86.30	354.000	4459.12	667.54N	76.05W	8.07	669.13	2159708.95	173041.56
4847.00	88.50	354.400	4460.57	699.34N	79.28W	6.99	701.00	2159705.72	173073.36
4878.00	88.90	354.100	4461.28	730.18N	82.39W	1.61	731.90	2159702.61	173104.20
4910.00	89.20	354.100	4461.81	762.00N	85.68W	0.94	763.79	2159699.32	173136.02
4942.00	89.40	354.000	4462.20	793.83N	88.99W	0.70	795.69	2159696.00	173167.85
4974.00	89.40	354.000	4462.53	825.65N	92.34W	==>	827.58	2159692.66	173199.67
5005.00	90.00	353.700	4462.69	856.47N	95.66W	2.16	858.47	2159689.34	173230.49
5037.00	90.70	353.400	4462.50	888.27N	99.25W	2.38	890.34	2159685.74	173262.29
5069.00	90.40	355.200	4462.19	920.11N	102.43W	5.70	922.24	2159682.57	173294.13
5100.00	89.20	357.800	4462.30	951.05N	104.32W	9.24	953.22	2159680.67	173325.07
5130.00	88.20	0.500	4462.98	981.03N	104.77W	9.60	983.21	2159680.23	173355.06
5180.00	88.20	1.300	4464.55	1031.00N	103.98W	1.60	1033.14	2159681.01	173405.03
5272.00	89.10	1.500	4466.72	1122.95N	101.74W	1.00	1125.01	2159683.26	173496.98
5364.00	90.00	0.800	4467.44	1214.92N	99.89W	1.24	1216.92	2159685.11	173588.95
5455.00	89.80	0.400	4467.60	1305.92N	98.94W	0.49	1307.87	2159686.06	173679.95
5547.00	90.40	0.200	4467.44	1397.92N	98.46W	0.69	1399.83	2159686.54	173771.95
5638.00	89.70	359.600	4467.36	1488.92N	98.61W	1.01	1490.81	2159686.38	173862.95
5731.00	90.60	359.300	4467.12	1581.91N	99.51W	1.02	1583.80	2159685.49	173955.95
5822.00	91.10	0.300	4465.77	1672.90N	99.82W	1.23	1674.77	2159685.17	174046.94
5915.00	91.10	359.600	4463.98	1765.88N	99.91W	0.75	1767.73	2159685.09	174139.93
6008.00	90.80	358.800	4462.44	1858.86N	101.20W	0.92	1860.71	2159683.79	174232.90
6103.00	90.40	358.800	4461.44	1953.83N	103.19W	0.42	1955.70	2159681.80	174327.88
6196.00	90.00	358.000	4461.12	2046.79N	105.79W	0.96	2048.70	2159679.21	174420.85
6226.00	86.90	357.800	4461.93	2076.76N	106.89W	10.35	2078.68	2159678.11	174450.81

All data is in Feet unless otherwise stated  
Coordinates are from Slot MD's are from Slot and TVD's are from Slot ( Jefferson 3306 1-27H 0.00ft above Mean Sea Level )  
Vertical Section is from 0.00N 0.00E on azimuth 358.670 degrees  
Bottom hole distance is 4715.64 Feet on azimuth 358.50 degrees from Wellhead  
Calculation method uses Minimum Curvature method  
Prepared by  
Date Printed: 8-Jul-2013



Standard Wellpath Report  
 Sandridge  
 Sec 27 - 33S - 6W, Kansas  
 Harper County  
 Wellbore: Jefferson 3306 1-27H (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
6256.00	85.00	358.900	4464.05	2106.67N	107.75W	7.31	2108.61	2159677.25	174480.72
6287.00	85.40	358.900	4466.64	2137.55N	108.34W	1.29	2139.50	2159676.65	174511.61
6318.00	85.00	359.700	4469.24	2168.44N	108.72W	2.88	2170.39	2159676.28	174542.50
6348.00	85.20	0.400	4471.80	2198.33N	108.70W	2.42	2200.27	2159676.30	174572.39
6378.00	85.40	0.600	4474.26	2228.23N	108.43W	0.94	2230.15	2159676.56	174602.29
6409.00	85.60	0.600	4476.69	2259.13N	108.11W	0.65	2261.04	2159676.89	174633.19
6470.00	86.20	0.500	4481.05	2319.98N	107.53W	1.00	2321.85	2159677.47	174694.03
6531.00	87.10	0.600	4484.62	2380.87N	106.94W	1.48	2382.71	2159678.05	174754.93
6562.00	87.00	0.700	4486.21	2411.82N	106.59W	0.46	2413.65	2159678.41	174785.89
6625.00	88.90	0.900	4488.47	2474.77N	105.71W	3.03	2476.57	2159679.29	174848.84
6658.00	88.50	1.200	4489.21	2507.76N	105.11W	1.52	2509.53	2159679.89	174881.83
6721.00	90.10	1.200	4489.98	2570.74N	103.79W	2.54	2572.46	2159681.21	174944.81
6753.00	90.50	0.800	4489.82	2602.73N	103.23W	1.77	2604.43	2159681.77	174976.80
6848.00	91.10	0.200	4488.49	2697.72N	102.40W	0.89	2699.37	2159682.60	175071.79
6942.00	89.80	0.700	4487.75	2791.71N	101.66W	1.48	2793.32	2159683.33	175165.78
7037.00	89.40	0.100	4488.41	2886.71N	101.00W	0.76	2888.28	2159684.00	175260.78
7132.00	89.60	0.200	4489.24	2981.70N	100.75W	0.24	2983.24	2159684.25	175355.78
7227.00	89.90	0.200	4489.66	3076.70N	100.42W	0.32	3078.21	2159684.58	175450.78
7322.00	90.50	359.500	4489.33	3171.70N	100.67W	0.97	3173.18	2159684.33	175545.78
7417.00	90.40	359.200	4488.58	3266.69N	101.75W	0.33	3268.17	2159683.25	175640.77
7511.00	90.60	358.500	4487.76	3360.67N	103.63W	0.77	3362.17	2159681.37	175734.75
7607.00	91.00	357.900	4486.42	3456.61N	106.65W	0.75	3458.16	2159678.35	175830.70
7702.00	90.40	358.900	4485.26	3551.56N	109.30W	1.23	3553.15	2159675.70	175925.66
7798.00	91.00	0.200	4484.09	3647.55N	110.05W	1.49	3649.13	2159674.94	176021.65
7893.00	91.30	0.500	4482.18	3742.53N	109.47W	0.45	3744.07	2159675.52	176116.63
7987.00	92.20	0.500	4479.31	3836.48N	108.65W	0.96	3837.97	2159676.34	176210.58
8082.00	92.00	359.900	4475.83	3931.42N	108.32W	0.67	3932.87	2159676.68	176305.52
8177.00	92.00	0.100	4472.51	4026.36N	108.32W	0.21	4027.79	2159676.68	176400.46
8272.00	91.40	359.400	4469.69	4121.32N	108.74W	0.97	4122.73	2159676.26	176495.42
8366.00	91.60	358.600	4467.23	4215.27N	110.38W	0.88	4216.70	2159674.62	176589.38
8462.00	89.80	359.300	4466.06	4311.24N	112.13W	2.01	4312.68	2159672.86	176685.35
8493.00	90.10	359.500	4466.09	4342.24N	112.46W	1.16	4343.68	2159672.54	176716.35
8557.00	89.70	358.400	4466.20	4406.23N	113.63W	1.83	4407.68	2159671.36	176780.34
8652.00	91.00	358.800	4465.62	4501.19N	115.95W	1.43	4502.67	2159669.04	176875.31
8747.00	91.20	358.100	4463.80	4596.14N	118.52W	0.77	4597.66	2159666.47	176970.26
8819.00	90.20	357.200	4462.92	4668.07N	121.47W	1.87	4669.64	2159663.52	177042.19
8865.00	90.20	357.200	4462.76	4714.02N	123.72W	==>	4715.62	2159661.28	177088.14

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 Bottom hole distance is 4715.64 Feet on azimuth 358.50 degrees from Wellhead  
 Calculation method uses Minimum Curvature method  
 Prepared by  
 Date Printed: 8-Jul-2013



Standard Wellpath Report  
Sandridge  
Sec 27 - 33S - 6W, Kansas  
Harper County  
Wellbore: Jefferson 3306 1-27H (Actual ST)

**Comments**

MD[ft]	TVD[ft]	North[ft]	East[ft]	Comment
8865.00	4462.76	4714.02N	123.72W	Projection to bit @ TD

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Vertical Section is from 0.00N 0.00E on azimuth 358.670 degrees  
Bottom hole distance is 4715.64 Feet on azimuth 358.50 degrees from Wellhead  
Calculation method uses Minimum Curvature method  
Prepared by  
Date Printed: 8-Jul-2013