



Standard Wellpath Report  
Sandridge  
Sec 34 - 34S - 8W, Kansas  
Harper County  
Wellbore: Jennifer 3408 4-34H (Actual)

### Wellbore

Name	Created	Last Revised
Jennifer 3408 4-34H (Actual)	28-Jan-2013	11-Feb-2013

### Well

Name	Government ID	Last Revised
Jennifer 3408 4-34H		28-Jan-2013

### Slot

Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Jennifer 3408 4-34H	134962.0000	2097365.0000	N37 2 12.6231	W98 9 59.2539	218.99N	670.97W

### Installation

Name	Easting	Northing	Coord System Name	North Alignment
Harper County	2098036.0000	134743.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

### Field

Name	Easting	Northing	Coord System Name	North Alignment
Sec 34 - 34S - 8W	2098036.0000	134743.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

### Created By

--

### Comments

FINAL Surveys  
MD 9141 is a projection to bit @ TD



Standard Wellpath Report  
Sandridge  
Sec 34 - 34S - 8W, Kansas  
Harper County  
Wellbore: Jennifer 3408 4-34H (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	2097365.00	134962.00
840.00	1.80	128.200	839.86	8.16S	10.37E	0.21	-8.63	2097375.37	134953.84
871.00	1.90	127.400	870.85	8.77S	11.16E	0.33	-9.28	2097376.16	134953.23
1333.00	1.90	138.700	1332.59	19.18S	22.30E	0.08	-20.18	2097387.30	134942.82
1807.00	0.90	36.100	1806.50	22.07S	29.68E	0.48	-23.41	2097394.68	134939.93
2377.00	0.80	353.500	2376.44	14.50S	31.87E	0.11	-15.95	2097396.87	134947.50
2853.00	0.60	28.900	2852.40	9.02S	32.69E	0.10	-10.51	2097397.70	134952.98
3329.00	1.20	341.200	3328.35	2.12S	32.29E	0.19	-3.60	2097397.29	134959.88
3805.00	0.40	258.100	3804.31	2.26N	29.06E	0.26	0.92	2097394.06	134964.26
3838.00	0.80	289.000	3837.31	2.31N	28.73E	1.52	0.99	2097393.73	134964.31
3869.00	2.30	305.600	3868.30	2.74N	28.02E	5.00	1.45	2097393.02	134964.74
3901.00	4.50	318.300	3900.24	4.05N	26.66E	7.23	2.82	2097391.66	134966.05
3933.00	6.40	325.200	3932.09	6.45N	24.81E	6.27	5.31	2097389.81	134968.45
3965.00	8.40	325.600	3963.82	9.85N	22.47E	6.25	8.81	2097387.47	134971.85
3997.00	10.80	323.200	3995.37	14.18N	19.35E	7.60	13.27	2097384.35	134976.18
4029.00	12.80	323.200	4026.70	19.42N	15.43E	6.25	18.69	2097380.43	134981.42
4061.00	14.40	323.800	4057.80	25.47N	10.96E	5.02	24.94	2097375.96	134987.47
4092.00	16.30	325.200	4087.69	32.15N	6.20E	6.24	31.83	2097371.20	134994.15
4124.00	18.00	326.700	4118.27	39.97N	0.92E	5.49	39.89	2097365.92	135001.97
4156.00	19.60	330.900	4148.56	48.79N	4.40W	6.55	48.94	2097360.60	135010.80
4187.00	20.40	339.200	4177.70	58.39N	8.85W	9.51	58.73	2097356.15	135020.39
4219.00	21.80	347.800	4207.56	69.41N	12.09W	10.61	69.90	2097352.91	135031.42
4251.00	24.00	354.700	4237.04	81.71N	13.95W	10.84	82.26	2097351.05	135043.71
4283.00	26.60	358.200	4265.97	95.35N	14.77W	9.37	95.93	2097350.23	135057.35
4314.00	28.70	359.700	4293.43	109.73N	15.03W	7.14	110.31	2097349.97	135071.74
4346.00	31.10	0.900	4321.17	125.68N	14.94W	7.73	126.23	2097350.06	135087.69
4379.00	33.70	1.600	4349.03	143.36N	14.55W	7.96	143.87	2097350.45	135105.36
4410.00	35.70	0.700	4374.51	161.00N	14.20W	6.66	161.48	2097350.80	135123.01
4442.00	37.70	0.700	4400.17	180.12N	13.97W	6.25	180.57	2097351.03	135142.13
4473.00	39.90	0.900	4424.33	199.54N	13.69W	7.11	199.96	2097351.31	135161.55
4505.00	42.10	1.300	4448.47	220.53N	13.29W	6.92	220.91	2097351.71	135182.54
4537.00	44.80	1.200	4471.70	242.53N	12.81W	8.44	242.86	2097352.19	135204.54
4569.00	46.90	0.100	4493.99	265.49N	12.55W	7.01	265.79	2097352.45	135227.50
4601.00	49.00	359.100	4515.42	289.25N	12.72W	6.96	289.53	2097352.28	135251.26
4664.00	51.40	359.200	4555.75	337.64N	13.44W	3.81	337.90	2097351.56	135299.66
4759.00	50.50	358.100	4615.60	411.40N	15.17W	1.31	411.66	2097349.83	135373.42
4855.00	49.20	357.400	4677.50	484.71N	18.05W	1.46	485.03	2097346.95	135446.74
4887.00	51.40	358.000	4697.94	509.31N	19.04W	7.02	509.65	2097345.96	135471.34
4918.00	53.40	359.400	4716.85	533.87N	19.59W	7.38	534.20	2097345.41	135495.89
4950.00	54.40	360.000	4735.71	559.72N	19.72W	3.47	560.04	2097345.28	135521.75
4982.00	57.50	359.500	4753.62	586.23N	19.84W	9.77	586.52	2097345.16	135548.26
5014.00	61.20	359.300	4769.93	613.75N	20.13W	11.57	614.03	2097344.87	135575.79
5046.00	64.40	359.400	4784.56	642.21N	20.35W	10.00	642.47	2097344.55	135604.24
5078.00	68.70	359.200	4797.29	671.56N	20.81W	13.45	671.81	2097344.19	135633.59
5110.00	72.80	358.800	4807.84	701.76N	21.34W	12.87	702.00	2097343.66	135663.79
5141.00	76.90	358.900	4815.94	731.67N	21.94W	13.23	731.90	2097343.06	135693.71
5172.00	81.50	358.900	4821.74	762.11N	22.53W	14.84	762.34	2097342.47	135724.14
5204.00	85.70	358.100	4825.31	793.89N	23.36W	13.36	794.12	2097341.64	135755.93
5223.00	87.20	358.100	4826.49	812.84N	23.99W	7.89	813.08	2097341.01	135774.88
5356.00	91.20	358.000	4828.34	945.72N	28.51W	3.01	946.03	2097336.49	135907.77
5448.00	92.20	0.300	4825.61	1037.67N	29.88W	2.73	1037.94	2097335.12	135999.72
5540.00	93.40	359.200	4821.12	1129.55N	30.28W	1.77	1129.75	2097334.72	136091.61
5631.00	91.80	356.500	4816.99	1220.38N	33.69W	3.45	1220.64	2097331.31	136182.44
5722.00	92.60	357.200	4813.50	1311.18N	38.68W	1.17	1311.57	2097326.31	136273.24
5816.00	92.90	357.900	4808.99	1404.98N	42.70W	0.81	1405.46	2097322.30	136367.05
5907.00	92.30	357.000	4804.86	1495.80N	46.74W	1.19	1496.37	2097318.25	136457.87
6000.00	91.30	355.900	4801.94	1588.57N	52.50W	1.60	1589.30	2097312.50	136550.65
6093.00	92.00	356.100	4799.26	1681.30N	58.98W	0.78	1682.24	2097306.01	136643.39
6187.00	92.70	356.400	4795.40	1775.02N	65.13W	0.81	1776.14	2097299.87	136737.11
6282.00	92.30	356.000	4791.26	1869.72N	71.42W	0.60	1871.03	2097293.58	136831.82
6377.00	91.70	354.700	4787.95	1964.35N	79.11W	1.51	1965.91	2097285.88	136926.45
6472.00	90.40	355.200	4786.20	2058.96N	87.47W	1.47	2060.81	2097277.52	137021.07
6567.00	90.90	354.700	4785.13	2153.59N	95.84W	0.74	2155.72	2097269.16	137115.70
6662.00	90.90	355.700	4783.63	2248.24N	103.78W	1.05	2250.64	2097261.21	137210.36
6756.00	90.80	356.600	4782.24	2342.02N	110.09W	0.96	2344.60	2097254.90	137304.14
6851.00	91.30	356.500	4780.50	2436.83N	115.81W	0.54	2439.58	2097249.18	137398.96
6973.00	91.70	357.000	4777.31	2558.59N	122.72W	0.52	2561.53	2097242.27	137520.72
7068.00	92.20	357.700	4774.07	2653.43N	127.11W	0.91	2656.47	2097237.88	137615.57
7163.00	91.50	358.200	4771.01	2748.32N	130.51W	0.91	2751.42	2097234.48	137710.46
7258.00	91.20	358.100	4768.77	2843.25N	133.58W	0.33	2846.38	2097231.42	137805.39

All data is in Feet unless otherwise stated  
Coordinates are from Slot MD's are from Slot and TVD's are from Slot ( Jennifer 3408 4-34H 0.00ft above Mean Sea Level )  
Vertical Section is from 0.00N 0.00E on azimuth 357.370 degrees  
Bottom hole distance is 4728.27 Feet on azimuth 357.39 degrees from Wellhead  
Calculation method uses Minimum Curvature method  
Prepared by  
Date Printed: 11-Feb-2013



Standard Wellpath Report  
 Sandridge  
 Sec 34 - 34S - 8W, Kansas  
 Harper County  
 Wellbore: Jennifer 3408 4-34H (Actual)

**Wellpath (Grid) Report**

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Easting	Northing
7352.00	90.30	357.200	4767.54	2937.16N	137.43W	1.35	2940.37	2097227.56	137899.31
7448.00	90.80	357.500	4766.62	3033.05N	141.87W	0.61	3036.37	2097223.12	137995.21
7542.00	92.20	357.800	4764.16	3126.94N	145.72W	1.52	3130.33	2097219.27	138089.10
7636.00	90.70	358.100	4761.78	3220.84N	149.08W	1.63	3224.29	2097215.91	138183.01
7732.00	89.30	357.200	4761.78	3316.76N	153.02W	1.73	3320.29	2097211.97	138278.93
7827.00	89.10	356.200	4763.10	3411.59N	158.49W	1.07	3415.27	2097206.50	138373.77
7921.00	91.00	356.100	4763.02	3505.38N	164.80W	2.02	3509.25	2097200.19	138467.55
8016.00	92.60	355.600	4760.04	3600.08N	171.67W	1.76	3604.16	2097193.32	138562.26
8112.00	94.10	357.000	4754.43	3695.71N	177.86W	2.14	3699.98	2097187.14	138657.90
8209.00	93.30	357.900	4748.17	3792.41N	182.16W	1.24	3796.77	2097182.83	138754.60
8303.00	91.90	358.700	4743.90	3886.27N	184.95W	1.71	3890.66	2097180.04	138848.46
8398.00	92.10	359.600	4740.59	3981.20N	186.36W	0.97	3985.55	2097178.64	138943.40
8494.00	92.50	359.000	4736.74	4077.11N	187.53W	0.75	4081.42	2097177.46	139039.32
8589.00	91.70	357.600	4733.25	4172.00N	190.34W	1.70	4176.34	2097174.65	139134.22
8684.00	91.00	357.500	4731.02	4266.89N	194.40W	0.74	4271.32	2097170.59	139229.11
8780.00	89.70	357.300	4730.43	4362.79N	198.76W	1.37	4367.31	2097166.23	139325.01
8874.00	90.20	357.700	4730.51	4456.70N	202.86W	0.68	4461.31	2097162.13	139418.92
8970.00	90.70	357.600	4729.76	4552.61N	206.79W	0.53	4557.31	2097158.19	139514.85
9065.00	91.20	356.900	4728.18	4647.49N	211.35W	0.91	4652.29	2097153.64	139609.73
9094.00	91.30	357.000	4727.55	4676.44N	212.89W	0.49	4681.28	2097152.09	139638.68
9141.00	91.30	357.000	4726.48	4723.36N	215.35W	==>	4728.27	2097149.64	139685.61

All data is in Feet unless otherwise stated  
 Coordinates are from Slot MD's are from Slot and TVD's are from Slot ( Jennifer 3408 4-34H 0.00ft above Mean Sea Level )  
 Vertical Section is from 0.00N 0.00E on azimuth 357.370 degrees  
 Bottom hole distance is 4728.27 Feet on azimuth 357.39 degrees from Wellhead  
 Calculation method uses Minimum Curvature method  
 Prepared by  
 Date Printed: 11-Feb-2013



Standard Wellpath Report  
Sandridge  
Sec 34 - 34S - 8W, Kansas  
Harper County  
Wellbore: Jennifer 3408 4-34H (Actual)

**Comments**

MD[ft]	TVD[ft]	North[ft]	East[ft]	Comment
9141.00	4726.48	4723.36N	215.35W	MD 9141 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 ( Jennifer 3408 4-34H 0.00ft above Mean Sea Level )  
Vertical Section is from 0.00N 0.00E on azimuth 357.370 degrees  
Bottom hole distance is 4728.27 Feet on azimuth 357.39 degrees from Wellhead  
Calculation method uses Minimum Curvature method  
Prepared by  
Date Printed: 11-Feb-2013