



Standard Wellpath Report
Sandridge
Sec 33 - 34S - 8W, Kansas
Harper County
Wellbore: 4J Ranch 3408 1-33H (Actual)

Wellbore

Name	Created	Last Revised
4J Ranch 3408 1-33H (Actual)	13-Feb-2013	28-Feb-2013

Well

Name	Government ID	Last Revised
4J Ranch 3408 1-33H		13-Feb-2013

Slot

Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
4J Ranch 3408 1-33H	134874.0000	2090748.0000	N37 2 11.9791	W98 11 20.8605	181.99N	1984.90W

Installation

Name	Easting	Northing	Coord System Name	North Alignment
Harper County	2092733.0000	134692.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Field

Name	Easting	Northing	Coord System Name	North Alignment
Sec 33 - 34S - 8W	2092733.0000	134692.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Created By

--

Comments

FINAL Surveys MD 9138 is a projection to bit @ TD
--



Standard Wellpath Report
 Sandridge
 Sec 33 - 34S - 8W, Kansas
 Harper County
 Wellbore: 4J Ranch 3408 1-33H (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	2090748.00	134874.00
964.00	0.90	55.500	963.96	4.29N	6.24E	0.09	4.13	2090754.24	134878.29
1423.00	1.10	160.300	1422.92	2.18N	10.70E	0.35	1.92	2090758.70	134876.18
1899.00	0.30	157.600	1898.88	3.27S	12.71E	0.17	-3.58	2090760.71	134870.73
2374.00	0.50	301.000	2373.87	3.35S	11.41E	0.16	-3.63	2090759.41	134870.65
2848.00	0.40	62.800	2847.87	1.53S	11.11E	0.17	-1.80	2090759.11	134872.47
3324.00	0.70	325.800	3323.85	1.63N	10.95E	0.18	1.36	2090758.95	134875.63
3799.00	0.90	233.100	3798.82	1.79N	6.34E	0.25	1.64	2090754.34	134875.79
3864.00	1.50	342.700	3863.81	2.30N	5.67E	3.06	2.16	2090753.68	134876.30
3895.00	3.50	353.500	3894.78	3.63N	5.45E	6.60	3.49	2090753.45	134877.63
3927.00	5.70	0.200	3926.68	6.19N	5.34E	7.07	6.05	2090753.34	134880.19
3958.00	7.40	0.800	3957.47	9.72N	5.38E	5.49	9.59	2090753.38	134883.72
3989.00	9.10	0.800	3988.15	14.17N	5.44E	5.48	14.03	2090753.44	134888.17
4021.00	10.60	359.100	4019.68	19.64N	5.43E	4.77	19.50	2090753.43	134893.64
4053.00	11.30	358.200	4051.10	25.72N	5.28E	2.25	25.58	2090753.28	134899.72
4084.00	12.40	358.200	4081.44	32.08N	5.08E	3.55	31.95	2090753.08	134906.08
4116.00	14.70	357.200	4112.54	39.57N	4.78E	7.22	39.44	2090752.78	134913.57
4148.00	17.00	357.600	4143.32	48.30N	4.38E	7.20	48.18	2090752.38	134922.30
4179.00	19.40	357.900	4172.77	57.98N	4.00E	7.75	57.86	2090752.00	134931.98
4211.00	21.70	357.600	4202.73	69.20N	3.56E	7.20	69.09	2090751.56	134943.20
4243.00	24.40	357.800	4232.18	81.72N	3.06E	8.44	81.62	2090751.06	134955.72
4275.00	26.70	358.500	4261.04	95.51N	2.62E	7.25	95.42	2090750.62	134969.52
4307.00	28.70	359.600	4289.38	110.38N	2.37E	6.45	110.29	2090750.38	134984.39
4338.00	31.00	0.100	4316.26	125.81N	2.34E	7.46	125.72	2090750.34	134999.82
4370.00	33.10	0.000	4343.38	142.79N	2.35E	6.56	142.69	2090750.35	135016.80
4402.00	35.60	359.400	4369.80	160.85N	2.25E	7.88	160.74	2090750.25	135034.85
4433.00	37.90	358.400	4394.64	179.39N	1.89E	7.67	179.29	2090749.89	135053.40
4465.00	40.20	358.700	4419.49	199.54N	1.38E	7.21	199.45	2090749.38	135073.55
4496.00	42.30	359.000	4442.79	219.97N	0.98E	6.80	219.89	2090748.98	135093.99
4528.00	45.50	359.000	4465.85	242.16N	0.59E	10.00	242.07	2090748.59	135116.17
4560.00	48.30	358.900	4487.71	265.52N	0.16E	8.75	265.43	2090748.16	135139.53
4656.00	50.90	357.700	4549.92	338.58N	2.02W	2.87	338.53	2090745.98	135212.60
4751.00	49.60	356.900	4610.67	411.54N	5.46W	1.51	411.55	2090742.54	135285.56
4783.00	50.50	356.800	4631.22	436.03N	6.81W	2.82	436.07	2090741.19	135310.06
4815.00	53.20	357.100	4650.98	461.16N	8.15W	8.47	461.22	2090739.85	135335.18
4846.00	56.30	357.600	4668.87	486.45N	9.31W	10.09	486.53	2090738.69	135360.47
4878.00	60.00	358.400	4685.76	513.61N	10.26W	11.76	513.70	2090737.74	135387.63
4910.00	63.70	358.900	4700.85	541.81N	10.92W	11.64	541.91	2090737.08	135415.84
4941.00	67.20	358.600	4713.73	569.99N	11.54W	11.32	570.11	2090736.46	135444.02
4973.00	70.20	359.100	4725.35	599.80N	12.13W	9.49	599.92	2090735.87	135473.83
5004.00	72.40	359.000	4735.29	629.16N	12.62W	7.10	629.28	2090735.38	135503.19
5036.00	74.60	358.100	4744.38	659.83N	13.40W	7.38	659.96	2090734.60	135533.86
5067.00	77.10	358.100	4751.96	689.87N	14.39W	8.06	690.01	2090733.60	135563.90
5098.00	80.10	357.500	4758.08	720.23N	15.56W	9.86	720.39	2090732.44	135594.27
5130.00	81.90	358.500	4763.09	751.81N	16.66W	6.42	752.00	2090731.33	135625.85
5217.00	85.40	359.200	4772.71	838.25N	18.40W	4.10	838.45	2090729.60	135712.29
5258.00	85.60	359.300	4775.93	879.12N	18.93W	0.55	879.32	2090729.07	135753.16
5351.00	89.00	358.700	4780.31	971.99N	20.55W	3.71	972.20	2090727.44	135846.04
5443.00	89.80	358.900	4781.27	1063.96N	22.48W	0.90	1064.19	2090725.52	135938.02
5535.00	92.00	358.500	4779.83	1155.92N	24.57W	2.43	1156.18	2090723.43	136029.98
5627.00	91.10	357.600	4777.34	1247.83N	27.70W	1.38	1248.14	2090720.30	136121.90
5718.00	89.60	356.600	4776.78	1338.71N	32.30W	1.98	1339.10	2090715.70	136212.78
5809.00	90.10	356.200	4777.02	1429.53N	38.01W	0.70	1430.03	2090709.98	136303.60
5900.00	90.20	356.600	4776.78	1520.35N	43.73W	0.45	1520.96	2090704.27	136394.43
5992.00	91.20	358.700	4775.66	1612.26N	47.50W	2.53	1612.94	2090700.50	136486.34
6085.00	91.40	359.400	4773.55	1705.22N	49.04W	0.78	1705.91	2090698.96	136579.31
6177.00	90.60	0.300	4771.94	1797.21N	49.28W	1.31	1797.87	2090698.71	136671.30
6272.00	91.10	359.600	4770.53	1892.19N	49.37W	0.91	1892.84	2090698.63	136766.29
6367.00	90.00	0.000	4769.62	1987.19N	49.70W	1.23	1987.81	2090698.30	136861.29
6462.00	90.60	359.400	4769.12	2082.18N	50.19W	0.89	2082.79	2090697.80	136956.29
6555.00	91.00	357.200	4767.82	2175.13N	52.95W	2.40	2175.77	2090695.04	137049.24
6648.00	91.00	357.100	4766.20	2268.00N	57.58W	0.11	2268.73	2090690.42	137142.12
6744.00	90.40	356.900	4765.03	2363.86N	62.60W	0.66	2364.68	2090685.40	137237.98
6840.00	89.70	356.200	4764.94	2459.68N	68.38W	1.03	2460.62	2090679.62	137333.81
6935.00	88.40	356.700	4766.52	2554.49N	74.26W	1.47	2555.54	2090673.74	137428.62
7031.00	90.20	357.900	4767.69	2650.37N	78.78W	2.25	2651.50	2090669.22	137524.50
7126.00	92.10	358.600	4765.79	2745.30N	81.68W	2.13	2746.47	2090666.31	137619.44
7222.00	93.10	0.600	4761.43	2841.19N	82.35W	2.33	2842.36	2090665.64	137715.34
7316.00	92.90	0.600	4756.51	2935.06N	81.37W	0.21	2936.17	2090666.63	137809.21
7412.00	92.50	0.700	4751.99	3030.95N	80.28W	0.43	3032.00	2090667.72	137905.10

All data is in Feet unless otherwise stated
 Coordinates are from Slot MD's are from Slot and TVD's are from Slot (4J Ranch 3408 1-33H 0.00ft above Mean Sea Level)
 Vertical Section is from 0.00N 0.00E on azimuth 358.600 degrees
 Bottom hole distance is 4757.08 Feet on azimuth 358.62 degrees from Wellhead
 Calculation method uses Minimum Curvature method
 Prepared by
 Date Printed: 28-Feb-2013



Standard Wellpath Report
 Sandridge
 Sec 33 - 34S - 8W, Kansas
 Harper County
 Wellbore: 4J Ranch 3408 1-33H (Actual)

Wellpath (Grid) Report

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Easting	Northing
7507.00	91.00	0.800	4749.09	3125.89N	79.04W	1.58	3126.89	2090668.96	138000.05
7602.00	91.80	0.200	4746.77	3220.86N	78.21W	1.05	3221.81	2090669.79	138095.02
7627.00	91.20	359.900	4746.11	3245.85N	78.19W	2.68	3246.79	2090669.81	138120.01
7723.00	90.50	0.800	4744.69	3341.83N	77.60W	1.19	3342.73	2090670.40	138216.01
7817.00	91.10	0.400	4743.38	3435.82N	76.62W	0.77	3436.67	2090671.38	138310.00
7913.00	90.20	359.300	4742.29	3531.81N	76.87W	1.48	3532.63	2090671.13	138405.99
8008.00	91.00	359.000	4741.29	3626.79N	78.28W	0.90	3627.62	2090669.72	138500.98
8102.00	89.70	358.200	4740.72	3720.76N	80.57W	1.62	3721.62	2090667.42	138594.95
8198.00	89.10	357.700	4741.72	3816.69N	84.01W	0.81	3817.61	2090663.99	138690.89
8293.00	90.50	357.200	4742.05	3911.60N	88.23W	1.56	3912.58	2090659.76	138785.80
8386.00	90.90	356.200	4740.92	4004.43N	93.59W	1.16	4005.53	2090654.41	138878.64
8482.00	92.20	356.800	4738.32	4100.22N	99.44W	1.49	4101.42	2090648.55	138974.43
8576.00	92.90	358.300	4734.14	4194.04N	103.46W	1.76	4195.31	2090644.54	139068.25
8670.00	92.40	359.200	4729.79	4287.91N	105.51W	1.09	4289.21	2090642.49	139162.13
8766.00	89.60	358.800	4728.12	4383.87N	107.18W	2.95	4385.18	2090640.81	139258.10
8861.00	91.50	358.000	4727.21	4478.83N	109.83W	2.17	4480.17	2090638.16	139353.05
8956.00	90.70	358.900	4725.38	4573.77N	112.40W	1.27	4575.15	2090635.59	139448.01
9050.00	91.90	359.200	4723.25	4667.73N	113.96W	1.32	4669.12	2090634.03	139541.97
9091.00	91.40	359.400	4722.07	4708.71N	114.46W	1.31	4710.10	2090633.53	139582.95
9138.00	91.40	359.400	4720.92	4755.70N	114.95W	==>	4757.08	2090633.04	139629.94

All data is in Feet unless otherwise stated
 Coordinates are from Slot MD's are from Slot and TVD's are from Slot (4J Ranch 3408 1-33H 0.00ft above Mean Sea Level)
 Vertical Section is from 0.00N 0.00E on azimuth 358.600 degrees
 Bottom hole distance is 4757.08 Feet on azimuth 358.62 degrees from Wellhead
 Calculation method uses Minimum Curvature method
 Prepared by
 Date Printed: 28-Feb-2013



Standard Wellpath Report
Sandridge
Sec 33 - 34S - 8W, Kansas
Harper County
Wellbore: 4J Ranch 3408 1-33H (Actual)

Comments

MD[ft]	TVD[ft]	North[ft]	East[ft]	Comment
9138.00	4720.92	4755.70N	114.95W	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 (4J Ranch 3408 1-33H 0.00ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 358.600 degrees
Bottom hole distance is 4757.08 Feet on azimuth 358.62 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 28-Feb-2013