



Standard Wellpath Report
Sandridge
Sec 9 - 23S - 30W, Kansas
Finney County
Wellbore: Lorimer 2330 1-9H (Actual)

Wellbore

Name	Created	Last Revised
Lorimer 2330 1-9H (Actual)	13-Aug-2012	10-Sep-2012

Well

Name	Government ID	Last Revised
Lorimer 2330 1-9H		13-Aug-2012

Slot

Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Lorimer 2330 1-9H	519490.6400	1388026.4250	N38 4 27.1932	W100 37 33.9782	211.37S	394.45E

Installation

Name	Easting	Northing	Coord System Name	North Alignment
Finney County	1387632.0000	519702.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Field

Name	Easting	Northing	Coord System Name	North Alignment
Sec 9 - 23S - 30W	1387632.0000	519702.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Created By

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Comments

FINAL surveys MD 9242 is a projection to bit @ TD
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Standard Wellpath Report
 Sandridge
 Sec 9 - 23S - 30W, Kansas
 Finney County
 Wellbore: Lorimer 2330 1-9H (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	1388026.43	519490.64
1822.00	3.30	43.500	1820.99	38.05N	36.11E	0.18	-38.61	1388062.53	519528.69
1886.00	3.20	45.200	1884.89	40.64N	38.64E	0.22	-41.24	1388065.07	519531.28
1950.00	2.70	46.900	1948.80	42.93N	41.01E	0.79	-43.57	1388067.43	519533.57
2014.00	2.30	49.600	2012.74	44.80N	43.09E	0.65	-45.46	1388069.51	519535.43
2078.00	2.10	51.200	2076.70	46.36N	44.98E	0.33	-47.06	1388071.40	519537.00
2174.00	1.40	47.800	2172.65	48.25N	47.22E	0.74	-48.98	1388073.64	519538.89
2205.00	1.50	44.000	2203.64	48.80N	47.78E	0.45	-49.54	1388074.21	519539.44
2301.00	0.90	30.700	2299.62	50.35N	49.04E	0.68	-51.11	1388075.46	519540.99
2397.00	0.60	8.600	2395.61	51.50N	49.50E	0.43	-52.26	1388075.92	519542.13
2493.00	0.60	22.700	2491.61	52.46N	49.77E	0.15	-53.22	1388076.19	519543.09
2588.00	0.60	39.300	2586.60	53.30N	50.28E	0.18	-54.08	1388076.70	519543.94
2684.00	0.40	45.500	2682.60	53.92N	50.84E	0.22	-54.71	1388077.26	519544.56
2780.00	0.40	61.200	2778.60	54.32N	51.37E	0.11	-55.11	1388077.79	519544.96
2876.00	0.60	62.000	2874.59	54.72N	52.11E	0.21	-55.52	1388078.53	519545.35
2971.00	0.60	66.200	2969.59	55.15N	53.00E	0.05	-55.97	1388079.42	519545.79
3066.00	0.50	64.400	3064.58	55.53N	53.83E	0.11	-56.36	1388080.25	519546.17
3162.00	0.50	89.400	3160.58	55.72N	54.63E	0.23	-56.56	1388081.05	519546.35
3258.00	0.40	77.100	3256.58	55.80N	55.37E	0.14	-56.65	1388081.79	519546.43
3353.00	0.40	53.300	3351.57	56.07N	55.96E	0.17	-56.93	1388082.38	519546.71
3544.00	0.40	61.600	3542.57	56.78N	57.08E	0.03	-57.66	1388083.50	519547.42
3735.00	0.40	77.300	3733.56	57.25N	58.32E	0.06	-58.15	1388084.74	519547.88
3831.00	0.40	121.100	3829.56	57.15N	58.93E	0.31	-58.06	1388085.35	519547.79
3862.00	0.20	76.900	3860.56	57.11N	59.08E	0.94	-58.02	1388085.50	519547.74
3894.00	0.50	131.700	3892.56	57.03N	59.24E	1.31	-57.94	1388085.66	519547.66
3926.00	1.90	169.700	3924.55	56.41N	59.43E	4.80	-57.33	1388085.86	519547.05
3957.00	4.20	177.200	3955.51	54.77N	59.58E	7.51	-55.69	1388086.00	519545.41
3990.00	6.20	179.500	3988.37	51.78N	59.66E	6.09	-52.70	1388086.08	519542.42
4022.00	8.40	179.500	4020.11	47.72N	59.69E	6.88	-48.64	1388086.11	519538.35
4053.00	10.30	182.400	4050.70	42.68N	59.60E	6.31	-43.60	1388086.02	519533.32
4085.00	12.20	183.500	4082.08	36.45N	59.27E	5.97	-37.36	1388085.69	519527.09
4117.00	14.20	184.900	4113.23	29.16N	58.73E	6.33	-30.07	1388085.15	519519.80
4149.00	16.20	185.500	4144.11	20.81N	57.96E	6.27	-21.71	1388084.39	519511.45
4181.00	18.80	185.900	4174.63	11.23N	57.01E	8.13	-12.12	1388083.43	519501.87
4213.00	21.30	186.500	4204.69	0.33N	55.82E	7.84	-1.20	1388082.24	519490.97
4245.00	23.70	186.100	4234.25	11.84S	54.48E	7.52	11.00	1388080.90	519478.80
4277.00	26.00	185.700	4263.28	25.22S	53.10E	7.21	24.39	1388079.52	519465.42
4309.00	28.00	185.900	4291.79	39.67S	51.63E	6.26	38.86	1388078.05	519450.97
4341.00	30.00	185.400	4319.78	55.11S	50.10E	6.30	54.32	1388076.52	519435.53
4373.00	32.10	184.700	4347.19	71.55S	48.65E	6.66	70.79	1388075.08	519419.10
4405.00	34.20	184.000	4373.98	89.00S	47.33E	6.67	88.25	1388073.75	519401.65
4436.00	36.10	183.100	4399.33	106.81S	46.23E	6.35	106.08	1388072.65	519383.84
4468.00	38.10	182.400	4424.85	126.09S	45.30E	6.39	125.37	1388071.73	519364.56
4500.00	40.10	182.100	4449.68	146.25S	44.51E	6.28	145.54	1388070.93	519344.40
4532.00	42.10	182.500	4473.80	167.27S	43.67E	6.30	166.57	1388070.09	519323.38
4564.00	44.60	182.700	4497.07	189.21S	42.67E	7.82	188.53	1388069.09	519301.44
4596.00	47.00	182.800	4519.37	212.13S	41.57E	7.50	211.45	1388067.99	519278.53
4628.00	49.00	182.700	4540.78	235.88S	40.43E	6.25	235.22	1388066.85	519254.78
4660.00	49.30	182.700	4561.71	260.06S	39.29E	0.94	259.42	1388065.71	519230.60
4692.00	49.50	182.500	4582.54	284.33S	38.19E	0.78	283.70	1388064.61	519206.33
4724.00	49.80	182.000	4603.26	308.70S	37.23E	1.52	308.08	1388063.65	519181.96
4756.00	49.90	181.700	4623.89	333.14S	36.44E	0.78	332.54	1388062.86	519157.52
4788.00	50.10	181.700	4644.46	357.65S	35.71E	0.62	357.05	1388062.13	519133.02
4820.00	50.10	181.600	4664.99	382.19S	35.00E	0.24	381.60	1388061.43	519108.48
4852.00	52.40	181.200	4685.01	407.13S	34.40E	7.25	406.55	1388060.82	519083.53
4883.00	55.70	181.000	4703.21	432.22S	33.92E	10.66	431.64	1388060.34	519058.45
4915.00	58.90	181.400	4720.50	459.14S	33.35E	10.06	458.56	1388059.77	519031.53
4947.00	61.50	182.600	4736.40	486.89S	32.38E	8.75	486.33	1388058.80	519003.78
4979.00	63.80	182.600	4751.10	515.28S	31.09E	7.19	514.73	1388057.51	518975.39
5011.00	66.20	182.900	4764.62	544.24S	29.70E	7.55	543.72	1388056.12	518946.43
5043.00	68.90	182.600	4776.84	573.78S	28.28E	8.48	573.27	1388054.70	518916.89
5074.00	71.80	182.300	4787.27	602.95S	27.03E	9.40	602.46	1388053.45	518887.73
5106.00	75.00	182.100	4796.41	633.59S	25.85E	10.02	633.11	1388052.28	518857.09
5137.00	78.20	182.300	4803.59	663.72S	24.70E	10.34	663.25	1388051.12	518826.96
5169.00	81.60	181.900	4809.20	695.20S	23.54E	10.70	694.75	1388049.97	518795.49
5201.00	84.90	182.300	4812.96	726.95S	22.38E	10.39	726.51	1388048.80	518763.74
5273.00	89.70	182.900	4816.35	798.77S	19.12E	6.72	798.38	1388045.54	518691.92
5305.00	90.10	182.500	4816.41	830.74S	17.61E	1.77	830.36	1388044.03	518659.95
5337.00	90.40	182.500	4816.27	862.71S	16.21E	0.94	862.35	1388042.64	518627.99
5369.00	90.60	182.300	4815.99	894.68S	14.87E	0.88	894.34	1388041.30	518596.02

All data is in Feet unless otherwise stated
 Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Lorimer 2330 1-9H 0.00ft above Mean Sea Level)
 Vertical Section is from 0.00N 0.00E on azimuth 180.890 degrees
 Bottom hole distance is 4765.94 Feet on azimuth 180.91 degrees from Wellhead
 Calculation method uses Minimum Curvature method
 Prepared by
 Date Printed: 10-Sep-2012



Standard Wellpath Report
 Sandridge
 Sec 9 - 23S - 30W, Kansas
 Finney County
 Wellbore: Lorimer 2330 1-9H (Actual)

Wellpath (Grid) Report

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Easting	Northing
5401.00	90.90	181.900	4815.57	926.65S	13.70E	1.56	926.33	1388040.12	518564.05
5432.00	91.20	182.200	4815.00	957.63S	12.59E	1.37	957.32	1388039.02	518533.07
5462.00	90.70	181.600	4814.50	987.61S	11.60E	2.60	987.31	1388038.02	518503.10
5494.00	90.80	181.300	4814.09	1019.59S	10.79E	0.99	1019.30	1388037.21	518471.11
5525.00	90.50	181.500	4813.73	1050.58S	10.03E	1.16	1050.30	1388036.45	518440.12
5556.00	90.30	181.700	4813.52	1081.57S	9.16E	0.91	1081.30	1388035.59	518409.14
5587.00	88.90	181.500	4813.73	1112.56S	8.30E	4.56	1112.29	1388034.72	518378.15
5617.00	88.50	181.500	4814.41	1142.54S	7.51E	1.33	1142.28	1388033.94	518348.17
5648.00	88.60	181.500	4815.20	1173.52S	6.70E	0.32	1173.27	1388033.13	518317.20
5679.00	88.90	181.000	4815.88	1204.50S	6.03E	1.88	1204.26	1388032.45	518286.21
5709.00	88.60	181.900	4816.53	1234.49S	5.27E	3.16	1234.25	1388031.69	518256.23
5771.00	90.80	181.900	4816.85	1296.45S	3.21E	3.55	1296.24	1388029.64	518194.27
5802.00	90.80	181.900	4816.42	1327.43S	2.18E	==>	1327.23	1388028.61	518163.30
5864.00	91.40	181.700	4815.23	1389.38S	0.24E	1.02	1389.21	1388026.66	518101.34
5895.00	91.70	181.400	4814.39	1420.36S	0.60W	1.37	1420.20	1388025.82	518070.37
5957.00	91.50	181.000	4812.66	1482.32S	1.90W	0.72	1482.17	1388024.53	518008.41
6019.00	90.60	181.600	4811.53	1544.30S	3.31W	1.74	1544.16	1388023.12	517946.44
6050.00	90.70	181.800	4811.17	1575.28S	4.22W	0.72	1575.16	1388022.20	517915.46
6081.00	91.10	182.100	4810.69	1606.26S	5.28W	1.61	1606.15	1388021.15	517884.48
6112.00	91.30	182.000	4810.04	1637.23S	6.39W	0.72	1637.13	1388020.04	517853.51
6144.00	90.80	181.800	4809.45	1669.21S	7.45W	1.68	1669.12	1388018.98	517821.54
6175.00	90.20	181.500	4809.18	1700.19S	8.34W	2.16	1700.12	1388018.08	517790.55
6238.00	90.80	181.200	4808.63	1763.17S	9.83W	1.06	1763.11	1388016.60	517727.58
6299.00	90.30	180.300	4808.05	1824.17S	10.62W	1.69	1824.11	1388015.80	517666.59
6362.00	89.40	179.900	4808.21	1887.16S	10.73W	1.56	1887.10	1388015.69	517603.59
6424.00	89.90	179.900	4808.59	1949.16S	10.63W	0.81	1949.09	1388015.80	517541.60
6486.00	89.70	179.700	4808.81	2011.16S	10.41W	0.46	2011.08	1388016.02	517479.60
6517.00	90.00	179.600	4808.89	2042.16S	10.22W	1.02	2042.07	1388016.21	517448.61
6578.00	89.50	179.400	4809.15	2103.16S	9.69W	0.88	2103.05	1388016.74	517387.61
6640.00	88.70	179.100	4810.13	2165.14S	8.88W	1.38	2165.02	1388017.55	517325.63
6672.00	88.70	179.100	4810.85	2197.13S	8.37W	==>	2197.00	1388018.05	517293.64
6734.00	89.10	179.400	4812.04	2259.12S	7.56W	0.81	2259.96	1388018.86	517231.67
6765.00	89.30	179.900	4812.48	2290.11S	7.37W	1.74	2289.95	1388019.05	517200.67
6796.00	89.60	180.800	4812.77	2321.11S	7.56W	3.06	2320.95	1388018.86	517169.68
6860.00	89.90	180.400	4813.05	2385.11S	8.23W	0.78	2384.95	1388018.19	517105.68
6892.00	90.20	180.500	4813.02	2417.10S	8.48W	0.99	2416.94	1388017.94	517073.69
6924.00	90.40	181.200	4812.86	2449.10S	8.96W	2.28	2448.94	1388017.47	517041.69
6987.00	89.90	182.200	4812.69	2512.07S	10.83W	1.77	2511.94	1388015.60	516978.73
7051.00	90.20	181.900	4812.64	2576.03S	13.12W	0.66	2575.92	1388013.31	516914.77
7115.00	90.60	182.000	4812.19	2639.99S	15.29W	0.64	2639.91	1388011.13	516850.81
7178.00	91.10	182.400	4811.25	2702.94S	17.71W	1.02	2702.89	1388008.71	516787.87
7241.00	91.50	181.600	4809.83	2765.88S	19.91W	1.42	2765.86	1388006.52	516724.93
7305.00	91.00	181.700	4808.43	2829.84S	21.75W	0.80	2829.84	1388004.67	516660.98
7369.00	90.40	182.000	4807.65	2893.80S	23.82W	1.05	2893.82	1388002.61	516597.02
7433.00	89.60	182.100	4807.65	2957.76S	26.11W	1.26	2957.81	1388000.32	516533.06
7497.00	88.80	182.400	4808.54	3021.70S	28.62W	1.33	3021.78	1387997.81	516469.12
7560.00	88.20	182.100	4810.19	3084.63S	31.09W	1.06	3084.74	1387995.33	516406.20
7624.00	87.80	181.700	4812.42	3148.56S	33.21W	0.88	3148.70	1387993.21	516342.28
7656.00	87.80	180.800	4813.65	3180.53S	33.91W	2.81	3180.67	1387992.52	516310.31
7720.00	88.70	182.700	4815.61	3244.46S	35.87W	3.28	3244.63	1387990.56	516246.38
7752.00	89.10	182.600	4816.22	3276.42S	37.34W	1.29	3276.61	1387989.08	516214.42
7784.00	89.00	182.600	4816.75	3308.39S	38.80W	0.31	3308.59	1387987.63	516182.46
7848.00	89.80	182.400	4817.42	3372.32S	41.59W	1.29	3372.56	1387984.84	516118.53
7911.00	91.70	184.600	4816.60	3435.19S	45.43W	4.61	3435.48	1387981.00	516055.66
7975.00	89.80	183.400	4815.76	3499.03S	49.90W	3.51	3499.38	1387976.53	515991.83
8007.00	89.50	183.600	4815.95	3530.97S	51.85W	1.13	3531.35	1387974.58	515959.89
8037.00	89.50	182.900	4816.22	3560.92S	53.55W	2.33	3561.32	1387972.88	515929.95
8103.00	88.00	182.700	4817.66	3626.82S	56.77W	2.29	3627.26	1387969.65	515864.05
8167.00	87.70	181.900	4820.06	3690.72S	59.34W	1.33	3691.20	1387967.09	515800.15
8199.00	87.60	182.400	4821.37	3722.67S	60.54W	1.59	3723.16	1387965.89	515768.20
8262.00	88.60	181.600	4823.46	3785.60S	62.74W	2.03	3786.12	1387963.69	515705.28
8294.00	88.70	181.200	4824.21	3817.58S	63.52W	1.29	3818.11	1387962.91	515673.30
8358.00	90.00	181.600	4824.94	3881.56S	65.08W	2.13	3882.10	1387961.35	515609.33
8422.00	90.00	181.100	4824.94	3945.54S	66.59W	0.78	3946.10	1387959.84	515545.35
8486.00	90.00	181.500	4824.94	4009.52S	68.04W	0.63	4010.09	1387958.39	515481.37
8550.00	90.80	181.100	4824.49	4073.50S	69.49W	1.40	4074.09	1387956.94	515417.39
8581.00	90.60	180.300	4824.11	4104.50S	69.87W	2.66	4105.09	1387956.56	515386.40
8645.00	90.10	180.900	4823.72	4168.49S	70.54W	1.22	4169.09	1387955.89	515322.41
8709.00	90.40	179.900	4823.44	4232.49S	70.99W	1.63	4233.08	1387955.44	515258.41
8773.00	91.10	180.300	4822.60	4296.48S	71.10W	1.26	4297.07	1387955.33	515194.42
8835.00	90.60	180.900	4821.69	4358.47S	71.75W	1.26	4359.06	1387954.68	515132.44

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 Vertical Section is from 0.00N 0.00E on azimuth 180.890 degrees
 Bottom hole distance is 4765.94 Feet on azimuth 180.91 degrees from Wellhead
 Calculation method uses Minimum Curvature method
 Prepared by
 Date Printed: 10-Sep-2012



Standard Wellpath Report
 Sandridge
 Sec 9 - 23S - 30W, Kansas
 Finney County
 Wellbore: Lorimer 2330 1-9H (Actual)

Wellpath (Grid) Report

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Easting	Northing
8867.00	91.00	180.900	4821.24	4390.47S	72.25W	1.25	4391.06	1387954.18	515100.45
8930.00	90.10	180.900	4820.63	4453.45S	73.24W	1.43	4454.05	1387953.19	515037.46
8994.00	88.70	180.100	4821.30	4517.45S	73.80W	2.52	4518.05	1387952.63	514973.48
9058.00	88.20	179.900	4823.03	4581.42S	73.80W	0.84	4582.02	1387952.63	514909.50
9090.00	88.20	180.200	4824.04	4613.41S	73.83W	0.94	4614.00	1387952.60	514877.52
9185.00	88.50	181.100	4826.78	4708.36S	74.91W	1.00	4708.96	1387951.52	514782.57
9242.00	88.50	181.100	4828.27	4765.33S	76.00W	==>	4765.94	1387950.43	514725.61

All data is in Feet unless otherwise stated
 Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Lorimer 2330 1-9H 0.00ft above Mean Sea Level)
 Vertical Section is from 0.00N 0.00E on azimuth 180.890 degrees
 Bottom hole distance is 4765.94 Feet on azimuth 180.91 degrees from Wellhead
 Calculation method uses Minimum Curvature method
 Prepared by
 Date Printed: 10-Sep-2012



Standard Wellpath Report
Sandridge
Sec 9 - 23S - 30W, Kansas
Finney County
Wellbore: Lorimer 2330 1-9H (Actual)

Comments

MD[ft]	TVD[ft]	North[ft]	East[ft]	Comment
9242.00	4828.27	4765.33S	76.00W	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 (Lorimer 2330 1-9H 0.00ft above Mean Sea Level)
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