

Standard Wellpath Report
 Nadel & Gussman Energy
 Sec 21 - 32S - 9E, Kansas
 Chautauqua County
 Wellbore: Stelbar 1A-21-32 9H (Actual)

Wellbore

Name	Created	Last Revised
Stelbar 1A-21-32 9H (Actual)	31-Jan-2012	13-Feb-2012

Well

Name	Government ID	Last Revised
Stelbar 1A-21-32 9H		31-Jan-2012

Slot

Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Stelbar 1A-21-32 9H	222092.0000	2604665.0000	N37 15 29.1960	W96 25 20.2746	192.00S	1497.00W

Installation

Name	Easting	Northing	Coord System Name	North Alignment
Chautauqua County	2606162.0000	222284.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Field

Name	Easting	Northing	Coord System Name	North Alignment
Sec 21 - 32S - 9E	2606162.0000	222284.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Created By

Created By

Comments

Comments
<p>FINAL Surveys MD 4718 is a projection to bit @ TD</p>

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 Chautauqua County
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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	2604665.00	222092.00
358.00	1.30	99.300	357.97	0.66S	4.01E	0.36	0.74	2604669.01	222091.34
674.00	1.50	106.800	673.88	2.43S	11.50E	0.09	2.68	2604676.50	222089.57
926.00	1.30	119.900	925.80	4.81S	17.14E	0.15	5.18	2604682.14	222087.19
1285.00	1.20	145.300	1284.72	9.93S	22.81E	0.16	10.43	2604687.81	222082.07
1660.00	0.90	141.300	1659.65	15.46S	26.89E	0.08	16.04	2604691.89	222076.54
1710.00	1.60	161.900	1709.64	16.43S	27.35E	1.64	17.02	2604692.35	222075.57
1741.00	3.40	177.000	1740.61	17.76S	27.53E	6.13	18.35	2604692.53	222074.24
1773.00	5.80	179.400	1772.51	20.32S	27.60E	7.52	20.92	2604692.60	222071.68
1804.00	8.40	181.600	1803.27	24.15S	27.55E	8.43	24.75	2604692.55	222067.85
1836.00	11.20	181.400	1834.80	29.60S	27.41E	8.75	30.19	2604692.41	222062.40
1867.00	13.50	181.100	1865.08	36.22S	27.27E	7.42	36.81	2604692.27	222055.78
1899.00	16.30	181.800	1896.00	44.45S	27.06E	8.77	45.03	2604692.06	222047.55
1930.00	19.10	182.900	1925.53	53.86S	26.66E	9.10	54.43	2604691.66	222038.14
1961.00	21.40	183.800	1954.61	64.57S	26.03E	7.49	65.13	2604691.03	222027.43
1993.00	23.90	182.900	1984.14	76.88S	25.32E	7.89	77.41	2604690.32	222015.12
2024.00	26.90	182.400	2012.14	90.16S	24.70E	9.70	90.67	2604689.70	222001.84
2056.00	30.00	180.600	2040.27	105.39S	24.32E	10.05	105.90	2604689.32	221986.61
2087.00	32.80	180.000	2066.73	121.54S	24.24E	9.09	122.04	2604689.24	221970.46
2119.00	35.40	180.800	2093.23	139.48S	24.11E	8.24	139.97	2604689.11	221952.52
2151.00	37.80	181.000	2118.91	158.56S	23.81E	7.51	159.04	2604688.81	221933.44
2182.00	40.10	181.200	2143.02	178.04S	23.43E	7.43	178.51	2604688.43	221913.96
2214.00	43.00	181.500	2166.97	199.25S	22.93E	9.08	199.71	2604687.93	221892.75
2246.00	46.00	182.000	2189.79	221.67S	22.24E	9.44	222.10	2604687.24	221870.33
2277.00	49.30	182.300	2210.67	244.56S	21.38E	10.67	244.97	2604686.38	221847.44
2309.00	50.00	182.700	2231.39	268.93S	20.32E	2.39	269.30	2604685.32	221823.07
2340.00	50.30	183.200	2251.25	292.69S	19.09E	1.57	293.04	2604684.09	221799.31
2372.00	50.60	183.200	2271.63	317.33S	17.71E	0.94	317.64	2604682.71	221774.67
2403.00	52.50	182.800	2290.90	341.57S	16.44E	6.21	341.85	2604681.44	221750.43
2435.00	55.80	182.600	2309.64	367.48S	15.22E	10.32	367.72	2604680.22	221724.52
2460.00	57.90	182.600	2323.31	388.39S	14.27E	8.40	388.60	2604679.27	221703.61
2484.00	60.20	182.100	2335.65	408.95S	13.43E	9.75	409.15	2604678.43	221683.05
2555.00	67.00	180.300	2367.21	472.49S	12.13E	9.84	472.64	2604677.13	221619.51
2587.00	72.30	179.800	2378.33	502.48S	12.11E	16.63	502.63	2604677.11	221589.52
2619.00	77.20	179.100	2386.74	533.35S	12.40E	15.46	533.49	2604677.40	221558.65
2650.00	77.90	178.800	2393.43	563.61S	12.96E	2.45	563.76	2604677.96	221528.39
2682.00	77.30	178.800	2400.30	594.86S	13.61E	1.87	595.01	2604678.61	221497.14
2713.00	76.60	178.500	2407.30	625.05S	14.33E	2.45	625.21	2604679.33	221466.95
2745.00	78.30	178.600	2414.25	656.27S	15.12E	5.32	656.45	2604680.12	221435.73
2777.00	80.60	179.000	2420.11	687.72S	15.77E	7.29	687.90	2604680.77	221404.28
2808.00	82.20	179.300	2424.75	718.37S	16.23E	5.25	718.55	2604681.23	221373.63
2840.00	84.50	179.200	2428.45	750.15S	16.64E	7.19	750.33	2604681.64	221341.85
2872.00	87.80	179.800	2430.60	782.07S	16.92E	10.48	782.25	2604681.92	221309.93
2904.00	88.50	180.100	2431.63	814.05S	16.95E	2.38	814.23	2604681.95	221277.95
2935.00	88.90	178.800	2432.34	845.04S	17.25E	4.39	845.22	2604682.25	221246.96
2967.00	87.40	178.400	2433.37	877.02S	18.03E	4.85	877.20	2604683.03	221214.98
2998.00	87.00	178.400	2434.88	907.97S	18.89E	1.29	908.16	2604683.89	221184.03
3030.00	88.40	179.300	2436.17	939.93S	19.54E	5.20	940.14	2604684.54	221152.07
3061.00	89.50	179.600	2436.74	970.93S	19.83E	3.68	971.13	2604684.83	221121.07
3093.00	90.00	179.600	2436.88	1002.93S	20.06E	1.56	1003.13	2604685.06	221089.07
3125.00	89.90	179.900	2436.90	1034.93S	20.20E	0.99	1035.12	2604685.20	221057.07
3166.00	89.70	179.700	2437.05	1075.93S	20.34E	0.69	1076.11	2604685.34	221016.07
3188.00	90.80	178.900	2436.95	1097.92S	20.61E	6.18	1098.11	2604685.61	220994.08
3219.00	91.30	178.500	2436.38	1128.91S	21.31E	2.07	1129.11	2604686.31	220963.09
3251.00	90.90	178.500	2435.77	1160.89S	22.15E	1.25	1161.10	2604687.15	220931.11
3282.00	91.10	178.300	2435.23	1191.88S	23.01E	0.91	1192.09	2604688.01	220900.12
3314.00	91.00	178.100	2434.64	1223.85S	24.02E	0.70	1224.09	2604689.02	220868.15
3346.00	91.50	177.900	2433.94	1255.83S	25.14E	1.68	1256.08	2604690.14	220836.17
3378.00	90.80	177.800	2433.30	1287.80S	26.34E	2.21	1288.07	2604691.34	220804.20
3409.00	90.10	177.800	2433.06	1318.77S	27.53E	2.26	1319.06	2604692.53	220773.23
3441.00	90.90	177.200	2432.78	1350.74S	28.92E	3.12	1351.05	2604693.92	220741.26
3472.00	91.00	177.300	2432.26	1381.70S	30.41E	0.46	1382.04	2604695.41	220710.30
3504.00	90.30	177.700	2431.90	1413.67S	31.80E	2.52	1414.03	2604696.80	220678.33
3536.00	89.80	177.700	2431.87	1445.64S	33.09E	1.56	1446.02	2604698.09	220646.36
3567.00	88.40	178.200	2432.36	1476.62S	34.20E	4.80	1477.01	2604699.20	220615.38
3599.00	89.20	178.900	2433.03	1508.60S	35.01E	3.32	1509.01	2604700.01	220583.40
3630.00	89.90	179.000	2433.27	1539.60S	35.58E	2.28	1540.00	2604700.58	220552.41
3662.00	89.20	179.100	2433.53	1571.59S	36.11E	2.21	1572.00	2604701.11	220520.41
3693.00	89.10	179.500	2433.99	1602.58S	36.48E	1.33	1603.00	2604701.48	220489.42

All data is in Feet unless otherwise stated
 Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Stelbar 1A-21-32 9H 0.00ft above Mean Sea Level)
 Vertical Section is from 0.00N 0.00E on azimuth 178.750 degrees
 Bottom hole distance is 2627.80 Feet on azimuth 178.70 degrees from Wellhead
 Calculation method uses Minimum Curvature method
 Prepared by
 Date Printed: 13-Feb-2012

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 Chautauqua County
 Wellbore: Stelbar 1A-21-32 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
3725.00	89.40	179.700	2434.40	1634.58S	36.71E	1.13	1634.99	2604701.71	220457.42
3756.00	88.60	179.600	2434.95	1665.57S	36.90E	2.60	1665.98	2604701.90	220426.43
3788.00	88.50	179.300	2435.75	1697.56S	37.20E	0.99	1697.97	2604702.20	220394.44
3819.00	89.80	179.200	2436.21	1728.56S	37.61E	4.21	1728.97	2604702.61	220363.44
3851.00	91.10	179.100	2435.96	1760.55S	38.08E	4.07	1760.96	2604703.08	220331.45
3882.00	91.80	179.000	2435.18	1791.54S	38.60E	2.28	1791.95	2604703.60	220300.46
3914.00	91.10	178.600	2434.37	1823.52S	39.27E	2.52	1823.94	2604704.27	220268.48
3946.00	91.30	178.500	2433.70	1855.50S	40.08E	0.70	1855.93	2604705.08	220236.50
3977.00	90.40	178.600	2433.24	1886.49S	40.86E	2.92	1886.93	2604705.86	220205.51
4009.00	89.60	178.100	2433.24	1918.47S	41.78E	2.95	1918.93	2604706.78	220173.53
4041.00	88.30	178.000	2433.83	1950.45S	42.87E	4.07	1950.92	2604707.87	220141.55
4072.00	88.60	177.800	2434.66	1981.42S	44.01E	1.16	1981.91	2604709.01	220110.58
4104.00	88.90	177.700	2435.36	2013.39S	45.26E	0.99	2013.89	2604710.26	220078.62
4135.00	89.40	177.600	2435.82	2044.36S	46.53E	1.64	2044.88	2604711.53	220047.64
4167.00	89.20	177.400	2436.21	2076.32S	47.93E	0.88	2076.87	2604712.93	220015.68
4198.00	88.80	177.600	2436.75	2107.29S	49.28E	1.44	2107.86	2604714.28	219984.71
4230.00	88.70	178.000	2437.45	2139.26S	50.51E	1.29	2139.85	2604715.51	219952.74
4262.00	89.60	178.500	2437.93	2171.24S	51.49E	3.22	2171.84	2604716.49	219920.76
4293.00	89.50	178.700	2438.17	2202.23S	52.25E	0.72	2202.84	2604717.25	219889.77
4325.00	90.40	178.600	2438.20	2234.22S	53.00E	2.83	2234.84	2604718.00	219857.78
4356.00	90.70	178.600	2437.90	2265.21S	53.76E	0.97	2265.84	2604718.76	219826.79
4388.00	90.80	178.600	2437.48	2297.20S	54.54E	0.31	2297.84	2604719.54	219794.80
4420.00	91.30	178.400	2436.90	2329.18S	55.38E	1.68	2329.83	2604720.38	219762.82
4452.00	90.20	178.500	2436.48	2361.16S	56.24E	3.45	2361.83	2604721.24	219730.84
4483.00	89.30	178.900	2436.61	2392.16S	56.94E	3.18	2392.83	2604721.94	219699.84
4515.00	89.10	179.100	2437.06	2424.15S	57.50E	0.88	2424.83	2604722.50	219667.85
4546.00	89.70	179.200	2437.38	2455.14S	57.96E	1.96	2455.82	2604722.96	219636.86
4578.00	89.60	179.200	2437.58	2487.14S	58.41E	0.31	2487.82	2604723.41	219604.86
4610.00	90.20	179.300	2437.63	2519.14S	58.83E	1.90	2519.82	2604723.83	219572.86
4641.00	90.40	179.300	2437.47	2550.13S	59.21E	0.65	2550.82	2604724.21	219541.87
4673.00	90.90	179.900	2437.11	2582.13S	59.43E	2.44	2582.81	2604724.43	219509.87
4718.00	90.90	179.900	2436.40	2627.12S	59.51E	==>	2627.80	2604724.51	219464.88

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Comments

MD[ft]	TVD[ft]	North[ft]	East[ft]	Comment
4718.00	2436.40	2627.12S	59.51E	Projection to bit @ TD

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