



Standard Wellpath Report
 Sandridge
 Sec 26 - 31S - 20W, Kansas
 Comanche County
 Wellbore: Harold 3120 2-26H (Actual)

Wellbore

Name	Created	Last Revised
Harold 3120 2-26H (Actual)	30-Oct-2012	26-Nov-2012

Well

Name	Government ID	Last Revised
Harold 3120 2-26H		30-Oct-2012

Slot

Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Harold 3120 2-26H	235505.0000	1722349.0000	N37 18 34.3749	W99 27 16.6995	252.00N	156.00W

Installation

Name	Easting	Northing	Coord System Name	North Alignment
Comanche County	1722505.0000	235253.0000	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Field

Name	Easting	Northing	Coord System Name	North Alignment
Sec 26 - 31S - 20W	1722505.0000	235253.0000	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Created By

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Comments

FINAL Surveys.
 MD 9464 is a projection to bit @ TD



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 Sec 26 - 31S - 20W, Kansas
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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	1722349.00	235505.00
1150.00	1.30	127.200	1149.90	7.89S	10.39E	0.11	-8.38	1722359.39	235497.11
1426.00	0.80	124.000	1425.85	10.86S	14.48E	0.18	-11.54	1722363.48	235494.14
1901.00	0.80	173.000	1900.81	16.00S	17.64E	0.14	-16.83	1722366.64	235489.00
2375.00	0.90	174.600	2374.76	22.99S	18.39E	0.02	-23.85	1722367.39	235482.01
2850.00	0.40	168.700	2849.73	28.33S	19.07E	0.11	-29.22	1722368.07	235476.67
3325.00	0.50	138.200	3324.71	31.50S	20.77E	0.05	-32.47	1722369.77	235473.50
3800.00	0.50	132.800	3799.70	34.46S	23.67E	==>	-35.56	1722372.67	235470.54
4148.00	0.50	91.900	4147.68	35.54S	26.31E	0.10	-36.77	1722375.31	235469.46
4179.00	1.00	16.200	4178.68	35.28S	26.52E	3.23	-36.52	1722375.52	235469.72
4211.00	3.60	346.300	4210.65	34.04S	26.36E	8.68	-35.27	1722375.36	235470.96
4242.00	6.90	342.000	4241.52	31.32S	25.55E	10.71	-32.52	1722374.55	235473.68
4274.00	9.50	339.700	4273.19	27.02S	24.04E	8.19	-28.14	1722373.04	235477.98
4306.00	11.30	338.800	4304.66	21.62S	21.99E	5.65	-22.65	1722370.99	235483.38
4337.00	12.20	338.200	4335.01	15.74S	19.67E	2.93	-16.67	1722368.67	235489.26
4369.00	14.30	337.800	4366.16	8.95S	16.93E	6.57	-9.75	1722365.93	235496.06
4400.00	16.90	338.200	4396.02	1.22S	13.81E	8.39	-1.88	1722362.80	235503.78
4432.00	19.00	339.500	4426.46	7.98N	10.25E	6.68	7.48	1722359.25	235512.98
4464.00	21.40	340.200	4456.49	18.36N	6.45E	7.54	18.03	1722355.45	235523.36
4495.00	23.70	340.000	4485.11	29.53N	2.40E	7.42	29.38	1722351.40	235534.53
4527.00	26.20	339.200	4514.13	42.18N	2.31W	7.88	42.25	1722346.69	235547.18
4559.00	27.60	339.900	4542.66	55.75N	7.36W	4.49	56.04	1722341.64	235560.75
4591.00	29.10	340.000	4570.82	70.02N	12.57W	4.69	70.55	1722336.43	235575.02
4622.00	31.30	340.600	4597.61	84.70N	17.82W	7.16	85.46	1722331.18	235589.70
4654.00	33.40	341.400	4624.65	100.89N	23.40W	6.70	101.90	1722325.60	235605.89
4686.00	35.60	341.700	4651.02	118.09N	29.13W	6.90	119.35	1722319.87	235623.09
4717.00	37.90	341.700	4675.85	135.70N	34.95W	7.42	137.22	1722314.05	235640.69
4749.00	39.30	342.400	4700.86	154.69N	41.10W	4.58	156.49	1722307.90	235659.69
4781.00	41.60	342.700	4725.21	174.49N	47.33W	7.21	176.57	1722301.67	235679.49
4812.00	43.20	341.300	4748.10	194.37N	53.79W	5.99	196.73	1722295.21	235699.37
4844.00	45.40	340.900	4771.00	215.51N	61.03W	6.93	218.20	1722287.97	235720.51
4876.00	46.70	342.100	4793.21	237.36N	68.34W	4.88	240.37	1722280.66	235742.36
4907.00	48.90	342.700	4814.04	259.25N	75.28W	7.24	262.57	1722273.72	235764.25
4939.00	49.00	342.600	4835.05	282.28N	82.48W	0.39	285.93	1722266.52	235787.28
4971.00	48.70	342.100	4856.11	305.24N	89.78W	1.50	309.21	1722259.22	235810.24
5002.00	48.60	342.000	4876.59	327.38N	96.95W	0.40	331.67	1722252.05	235832.38
5034.00	49.50	342.200	4897.56	350.38N	104.38W	2.85	355.00	1722244.62	235855.38
5066.00	49.60	342.200	4918.32	373.57N	111.83W	0.31	378.52	1722237.18	235878.56
5097.00	49.70	341.900	4938.39	396.04N	119.11W	0.80	401.32	1722229.89	235901.04
5129.00	51.90	341.500	4958.62	419.58N	126.89W	6.94	425.21	1722222.11	235924.58
5161.00	54.70	340.900	4977.74	443.87N	135.16W	8.88	449.86	1722213.84	235948.86
5193.00	57.30	341.200	4995.63	468.96N	143.78W	8.16	475.34	1722205.22	235973.95
5224.00	60.00	342.800	5011.76	494.14N	151.95W	9.76	500.88	1722197.05	235999.13
5256.00	62.80	343.500	5027.08	521.02N	160.09W	8.96	528.12	1722188.91	236026.02
5288.00	64.40	344.800	5041.30	548.59N	167.92W	6.18	556.04	1722181.08	236053.59
5319.00	66.40	345.800	5054.21	575.86N	175.07W	7.09	583.62	1722173.93	236080.85
5351.00	68.80	346.600	5066.40	604.59N	182.12W	7.85	612.65	1722166.88	236109.58
5383.00	72.40	347.500	5077.03	634.00N	188.88W	11.56	642.35	1722160.12	236138.99
5415.00	76.30	348.900	5085.66	664.15N	195.18W	12.89	672.78	1722153.82	236169.15
5446.00	79.70	349.800	5092.11	693.95N	200.78W	11.33	702.81	1722148.22	236198.94
5478.00	82.00	351.700	5097.19	725.13N	205.86W	9.27	734.20	1722143.14	236230.12
5492.00	83.50	352.700	5098.96	738.89N	207.74W	12.85	748.03	1722141.26	236243.88
5555.00	86.70	356.100	5104.34	801.34N	213.86W	7.40	810.71	1722135.14	236306.33
5647.00	89.60	357.300	5107.31	893.13N	219.15W	3.41	902.64	1722129.85	236398.12
5739.00	91.00	357.500	5106.83	985.03N	223.33W	1.54	994.64	1722125.68	236490.02
5831.00	90.60	359.800	5105.55	1076.99N	225.49W	2.54	1086.60	1722123.51	236581.98
5972.00	90.40	0.400	5104.32	1217.98N	225.25W	0.45	1227.41	1722123.75	236722.97
6015.00	91.00	0.200	5103.79	1260.98N	225.02W	1.47	1270.35	1722123.98	236765.97
6107.00	91.60	0.100	5101.70	1352.95N	224.78W	0.66	1362.21	1722124.22	236857.94
6199.00	90.10	359.000	5100.34	1444.94N	225.50W	2.02	1454.12	1722123.50	236949.92
6291.00	89.90	358.800	5100.34	1536.92N	227.27W	0.31	1546.08	1722121.73	237041.90
6383.00	90.70	359.300	5099.86	1628.91N	228.80W	1.03	1638.03	1722120.21	237133.89
6475.00	90.70	359.800	5098.73	1720.90N	229.52W	0.54	1729.95	1722119.48	237225.88
6567.00	90.40	359.900	5097.85	1812.89N	229.76W	0.34	1821.85	1722119.24	237317.87
6659.00	90.80	359.600	5096.89	1904.88N	230.16W	0.54	1913.76	1722118.84	237409.87
6751.00	89.80	0.300	5096.40	1996.88N	230.24W	1.33	2005.65	1722118.76	237501.86
6843.00	88.30	358.500	5097.93	2088.86N	231.20W	2.55	2097.57	1722117.80	237593.84
6935.00	92.90	2.600	5096.97	2180.80N	230.32W	6.70	2189.36	1722118.68	237685.78
7030.00	91.50	0.400	5093.32	2275.69N	227.84W	2.74	2284.02	1722121.16	237780.67
7125.00	90.20	359.900	5091.91	2370.68N	227.59W	1.47	2378.89	1722121.41	237875.66

All data is in Feet unless otherwise stated
 Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Harold 3120 2-26H 0.00ft above Mean Sea Level)
 Vertical Section is from 0.00N 0.00E on azimuth 357.240 degrees
 Bottom hole distance is 4715.62 Feet on azimuth 356.95 degrees from Wellhead
 Calculation method uses Minimum Curvature method
 Prepared by
 Date Printed: 26-Nov-2012



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 Sec 26 - 31S - 20W, Kansas
 Comanche County
 Wellbore: Harold 3120 2-26H (Actual)

Wellpath (Grid) Report

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Easting	Northing
7220.00	90.20	359.300	5091.58	2465.68N	228.25W	0.63	2473.81	1722120.75	237970.65
7315.00	90.50	359.600	5091.00	2560.67N	229.16W	0.45	2568.73	1722119.84	238065.64
7410.00	89.90	358.300	5090.67	2655.65N	230.91W	1.51	2663.69	1722118.10	238160.62
7505.00	89.50	359.200	5091.16	2750.63N	232.98W	1.04	2758.65	1722116.02	238255.60
7600.00	90.70	0.100	5091.00	2845.62N	233.56W	1.58	2853.57	1722115.44	238350.59
7695.00	91.20	1.200	5089.42	2940.60N	232.48W	1.27	2948.38	1722116.52	238445.57
7790.00	91.50	0.900	5087.18	3035.56N	230.74W	0.45	3043.15	1722118.26	238540.53
7885.00	91.00	1.300	5085.11	3130.52N	228.92W	0.67	3137.91	1722120.09	238635.49
7980.00	91.30	0.900	5083.21	3225.48N	227.09W	0.53	3232.67	1722121.91	238730.45
8075.00	90.40	0.200	5081.80	3320.46N	226.18W	1.20	3327.50	1722122.82	238825.43
8170.00	89.70	359.700	5081.71	3415.46N	226.26W	0.91	3422.40	1722122.74	238920.43
8265.00	89.00	359.500	5082.79	3510.45N	226.93W	0.77	3517.31	1722122.07	239015.42
8360.00	90.00	359.700	5083.62	3605.45N	227.59W	1.07	3612.22	1722121.41	239110.41
8455.00	89.80	359.300	5083.79	3700.44N	228.42W	0.47	3707.15	1722120.58	239205.41
8550.00	90.70	359.600	5083.37	3795.44N	229.33W	1.00	3802.08	1722119.67	239300.40
8645.00	90.80	359.300	5082.13	3890.42N	230.24W	0.33	3897.00	1722118.76	239395.38
8740.00	91.10	359.900	5080.55	3985.41N	230.91W	0.71	3991.90	1722118.10	239490.37
8834.00	91.00	359.200	5078.83	4079.39N	231.65W	0.75	4085.81	1722117.36	239584.35
8929.00	90.40	359.000	5077.67	4174.37N	233.14W	0.67	4180.75	1722115.87	239679.33
9024.00	90.40	357.900	5077.01	4269.33N	235.71W	1.16	4275.73	1722113.30	239774.29
9119.00	90.30	357.900	5076.43	4364.27N	239.19W	0.11	4370.72	1722109.81	239869.22
9214.00	90.70	358.000	5075.60	4459.20N	242.59W	0.43	4465.71	1722106.42	239964.16
9309.00	91.40	358.000	5073.86	4554.13N	245.90W	0.74	4560.68	1722103.10	240059.08
9404.00	92.50	358.100	5070.62	4649.01N	249.13W	1.16	4655.62	1722099.87	240153.97
9464.00	92.50	358.100	5068.01	4708.92N	251.12W	==>	4715.55	1722097.88	240213.88

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Sec 26 - 31S - 20W, Kansas
Comanche County
Wellbore: Harold 3120 2-26H (Actual)

Comments

MD[ft]	TVD[ft]	North[ft]	East[ft]	Comment
9464.00	5068.01	4708.92N	251.12W	MD 9464 is a Projection to bit @ TD

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