



Standard Wellpath Report
 Sandridge
 Sec 10 - 21S - 24W, Kansas
 Hodgeman County
 Wellbore: Frusher 1-10H (Actual)

Wellbore

Name	Created	Last Revised
Frusher 1-10H (Actual)	29-Mar-2012	2-May-2012

Well

Name	Government ID	Last Revised
Frusher 1-10H		29-Mar-2012

Slot

Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Frusher 1-10H	578571.0000	1587164.0000	N38 14 48.7943	W99 56 15.2376	199.01S	402.02W

Installation

Name	Easting	Northing	Coord System Name	North Alignment
Hodgeman County	1587566.0000	578770.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Field

Name	Easting	Northing	Coord System Name	North Alignment
Sec 10 - 21S - 24W	1587566.0000	578770.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Created By

Comments

FINAL surveys.
 MD 8797 is a projection to Bit @ TD



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 Sandridge
 Sec 10 - 21S - 24W, Kansas
 Hodgeman County
 Wellbore: Frusher 1-10H (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	1587164.00	578571.00
771.00	0.30	138.800	771.00	1.52S	1.33E	0.04	1.51	1587165.33	578569.48
1013.00	0.20	254.100	1013.00	2.11S	1.34E	0.18	2.10	1587165.34	578568.89
1504.00	0.10	84.200	1503.99	2.30S	0.94E	0.06	2.29	1587164.94	578568.70
1981.00	0.10	242.200	1980.99	2.45S	0.99E	0.04	2.44	1587164.99	578568.55
2457.00	0.50	230.000	2456.99	3.98S	0.97W	0.08	3.99	1587163.03	578567.02
2934.00	0.50	263.700	2933.97	5.55S	4.63W	0.06	5.60	1587159.37	578565.45
3410.00	0.50	284.800	3409.95	5.25S	8.71W	0.04	5.33	1587155.30	578565.75
3506.00	0.30	338.800	3505.95	4.91S	9.20W	0.42	5.00	1587154.80	578566.09
3537.00	0.20	261.000	3536.95	4.84S	9.28W	1.04	4.93	1587154.72	578566.16
3569.00	2.30	191.500	3568.94	5.48S	9.47W	6.99	5.57	1587154.53	578565.52
3601.00	4.70	191.100	3600.88	7.39S	9.85W	7.50	7.49	1587154.15	578563.61
3633.00	7.30	186.800	3632.70	10.70S	10.34W	8.24	10.80	1587153.66	578560.30
3664.00	9.50	186.000	3663.37	15.20S	10.84W	7.11	15.31	1587153.16	578555.80
3696.00	11.70	184.800	3694.82	21.06S	11.39W	6.91	21.17	1587152.61	578549.94
3728.00	13.90	185.000	3726.02	28.12S	12.00W	6.88	28.24	1587152.00	578542.88
3760.00	16.20	185.100	3756.92	36.40S	12.73W	7.19	36.53	1587151.27	578534.60
3791.00	17.80	185.300	3786.57	45.42S	13.55W	5.16	45.56	1587150.45	578525.58
3823.00	20.00	185.200	3816.84	55.75S	14.50W	6.88	55.89	1587149.50	578515.26
3855.00	21.90	183.800	3846.72	67.15S	15.39W	6.14	67.30	1587148.61	578503.85
3887.00	23.70	182.900	3876.22	79.53S	16.11W	5.73	79.69	1587147.89	578491.47
3919.00	26.00	182.800	3905.26	92.96S	16.78W	7.19	93.13	1587147.22	578478.04
3950.00	27.70	180.400	3932.91	106.95S	17.16W	6.50	107.12	1587146.84	578464.05
3982.00	29.50	179.000	3961.01	122.27S	17.07W	6.00	122.44	1587146.93	578448.74
4014.00	31.10	176.600	3988.64	138.40S	16.45W	6.27	138.56	1587147.55	578432.61
4046.00	32.70	176.300	4015.80	155.28S	15.40W	5.02	155.42	1587148.60	578415.73
4078.00	34.50	176.900	4042.46	172.95S	14.35W	5.72	173.09	1587149.65	578398.06
4109.00	36.30	177.400	4067.72	190.89S	13.46W	5.88	191.01	1587150.54	578380.12
4141.00	37.90	178.100	4093.25	210.17S	12.70W	5.17	210.29	1587151.30	578360.84
4173.00	39.50	179.100	4118.22	230.17S	12.22W	5.37	230.29	1587151.78	578340.84
4204.00	41.40	179.400	4141.81	250.28S	11.96W	6.16	250.39	1587152.04	578320.73
4236.00	44.20	180.500	4165.29	272.02S	11.94W	9.06	272.13	1587152.06	578298.99
4268.00	46.50	180.500	4187.77	294.79S	12.14W	7.19	294.89	1587151.86	578276.23
4300.00	47.30	180.100	4209.64	318.15S	12.26W	2.66	318.26	1587151.74	578252.87
4332.00	47.70	179.800	4231.26	341.74S	12.24W	1.43	341.85	1587151.76	578229.27
4363.00	48.10	179.900	4252.04	364.74S	12.18W	1.31	364.85	1587151.82	578206.27
4395.00	48.60	179.900	4273.31	388.66S	12.14W	1.56	388.76	1587151.86	578182.36
4427.00	48.50	180.600	4294.49	412.64S	12.25W	1.67	412.74	1587151.76	578158.38
4459.00	48.60	180.400	4315.67	436.62S	12.45W	0.56	436.73	1587151.55	578134.40
4491.00	50.50	179.500	4336.43	460.97S	12.43W	6.31	461.08	1587151.57	578110.05
4522.00	53.40	179.500	4355.54	485.38S	12.22W	9.35	485.48	1587151.78	578085.64
4554.00	56.70	179.600	4373.87	511.61S	12.01W	10.32	511.70	1587151.99	578059.42
4586.00	59.70	180.200	4390.73	538.80S	11.97W	9.51	538.89	1587152.03	578032.23
4617.00	63.50	180.400	4405.47	566.06S	12.11W	12.27	566.16	1587151.89	578004.96
4649.00	67.70	180.700	4418.68	595.20S	12.39W	13.15	595.29	1587151.61	577975.83
4681.00	71.70	180.600	4429.78	625.20S	12.73W	12.50	625.30	1587151.27	577945.83
4713.00	74.90	181.300	4438.98	655.84S	13.24W	10.22	655.94	1587150.76	577915.19
4744.00	78.30	181.700	4446.16	685.98S	14.03W	11.04	686.09	1587149.97	577885.05
4776.00	81.20	181.400	4451.86	717.46S	14.88W	9.11	717.57	1587149.12	577853.58
4808.00	84.60	181.300	4455.81	749.20S	15.63W	10.63	749.32	1587148.37	577821.84
4818.00	85.70	181.100	4456.66	759.16S	15.84W	11.18	759.28	1587148.16	577811.88
4854.00	89.10	181.600	4458.29	795.11S	16.69W	9.55	795.24	1587147.31	577775.93
4884.00	89.80	181.700	4458.58	825.10S	17.55W	2.36	825.23	1587146.45	577745.95
4946.00	90.40	181.700	4458.47	887.07S	19.39W	0.97	887.22	1587144.61	577683.98
4977.00	90.60	181.700	4458.20	918.05S	20.31W	0.65	918.21	1587143.69	577652.99
5038.00	90.80	181.400	4457.45	979.03S	21.96W	0.59	979.20	1587142.04	577592.02
5100.00	91.10	181.300	4456.42	1041.00S	23.42W	0.51	1041.18	1587140.58	577530.05
5161.00	91.20	179.900	4455.20	1101.98S	24.06W	2.30	1102.17	1587139.94	577469.07
5192.00	91.60	179.100	4454.44	1132.97S	23.79W	2.88	1133.16	1587140.21	577438.08
5254.00	90.70	178.100	4453.20	1194.94S	22.27W	2.17	1195.10	1587141.73	577376.12
5285.00	90.70	177.700	4452.82	1225.92S	21.14W	1.29	1226.07	1587142.86	577345.14
5315.00	89.50	177.500	4452.77	1255.89S	19.88W	4.06	1256.03	1587144.12	577315.17
5346.00	88.80	177.400	4453.23	1286.86S	18.50W	2.28	1286.98	1587145.50	577284.21
5408.00	88.10	177.600	4454.90	1348.77S	15.80W	1.17	1348.86	1587148.20	577222.29
5438.00	88.10	177.400	4455.90	1378.73S	14.49W	0.67	1378.80	1587149.51	577192.34
5500.00	87.60	177.300	4458.23	1440.62S	11.63W	0.82	1440.66	1587152.37	577130.45
5531.00	87.60	177.200	4459.52	1471.56S	10.14W	0.32	1471.58	1587153.86	577099.52

All data is in Feet unless otherwise stated
 Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Frusher 1-10H 0.00ft above Mean Sea Level)
 Vertical Section is from 0.00N 0.00E on azimuth 180.580 degrees
 Bottom hole distance is 4735.68 Feet on azimuth 180.23 degrees from Wellhead
 Calculation method uses Minimum Curvature method
 Prepared by
 Date Printed: 2-May-2012



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 Sec 10 - 21S - 24W, Kansas
 Hodgeman County
 Wellbore: Frusher 1-10H (Actual)

Wellpath (Grid) Report

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Easting	Northing
5562.00	88.10	177.500	4460.69	1502.50S	8.71W	1.88	1502.51	1587155.29	577068.57
5592.00	87.90	178.200	4461.73	1532.46S	7.58W	2.43	1532.46	1587156.42	577038.62
5623.00	88.40	178.800	4462.73	1563.43S	6.77W	2.52	1563.42	1587157.23	577007.64
5685.00	89.50	179.300	4463.87	1625.41S	5.74W	1.95	1625.39	1587158.26	576945.67
5715.00	89.90	179.400	4464.03	1655.41S	5.40W	1.37	1655.38	1587158.60	576915.67
5778.00	90.70	178.900	4463.70	1718.40S	4.47W	1.50	1718.36	1587159.53	576852.68
5810.00	90.90	179.000	4463.25	1750.39S	3.88W	0.70	1750.34	1587160.12	576820.69
5874.00	90.10	180.500	4462.69	1814.39S	3.60W	2.66	1814.33	1587160.40	576756.70
5906.00	90.30	180.500	4462.58	1846.39S	3.88W	0.62	1846.33	1587160.12	576724.70
5969.00	91.20	180.700	4461.76	1909.38S	4.54W	1.46	1909.33	1587159.46	576661.72
6002.00	91.60	180.700	4460.95	1942.37S	4.95W	1.21	1942.32	1587159.05	576628.73
6034.00	91.20	181.700	4460.17	1974.35S	5.62W	3.36	1974.30	1587158.38	576596.75
6097.00	90.30	182.000	4459.34	2037.31S	7.65W	1.51	2037.28	1587156.35	576533.79
6129.00	90.30	181.900	4459.18	2069.29S	8.74W	0.31	2069.27	1587155.26	576501.81
6193.00	90.20	181.700	4458.90	2133.26S	10.75W	0.35	2133.26	1587153.25	576437.85
6289.00	91.80	181.800	4457.22	2229.20S	13.68W	1.67	2229.22	1587150.32	576341.91
6353.00	91.60	181.600	4455.32	2293.14S	15.58W	0.44	2293.18	1587148.42	576277.97
6384.00	91.60	182.300	4454.46	2324.11S	16.63W	2.26	2324.16	1587147.37	576247.01
6416.00	90.70	182.000	4453.81	2356.08S	17.83W	2.96	2356.14	1587146.17	576215.04
6448.00	90.50	182.000	4453.48	2388.06S	18.95W	0.62	2388.13	1587145.05	576183.06
6480.00	90.70	181.900	4453.14	2420.04S	20.04W	0.70	2420.12	1587143.96	576151.08
6544.00	90.30	181.700	4452.59	2484.00S	22.05W	0.70	2484.10	1587141.95	576087.12
6576.00	90.40	181.600	4452.39	2515.99S	22.97W	0.44	2516.09	1587141.03	576055.13
6639.00	92.20	181.600	4450.96	2578.95S	24.73W	2.86	2579.07	1587139.27	575992.18
6671.00	92.40	181.100	4449.68	2610.91S	25.48W	1.68	2611.04	1587138.52	575960.22
6703.00	91.40	181.400	4448.62	2642.89S	26.18W	3.26	2643.02	1587137.82	575928.24
6735.00	91.20	181.800	4447.89	2674.87S	27.07W	1.40	2675.00	1587136.93	575896.27
6767.00	91.50	181.900	4447.14	2706.84S	28.11W	0.99	2706.99	1587135.90	575864.29
6831.00	89.50	180.500	4446.58	2770.82S	29.45W	3.81	2770.97	1587134.56	575800.32
6863.00	89.60	180.300	4446.83	2802.82S	29.67W	0.70	2802.97	1587134.33	575768.32
6927.00	89.10	179.300	4447.55	2866.81S	29.45W	1.75	2866.96	1587134.56	575704.33
6959.00	89.80	180.400	4447.86	2898.81S	29.36W	4.07	2898.96	1587134.64	575672.33
7054.00	90.90	181.300	4447.28	2993.79S	30.77W	1.50	2993.95	1587133.23	575577.35
7118.00	90.40	181.200	4446.56	3057.78S	32.17W	0.80	3057.94	1587131.83	575513.38
7150.00	90.70	181.600	4446.25	3089.76S	32.95W	1.56	3089.94	1587131.05	575481.39
7214.00	89.70	182.000	4446.02	3153.73S	34.96W	1.68	3153.92	1587129.04	575417.43
7246.00	89.60	181.600	4446.22	3185.71S	35.96W	1.29	3185.92	1587128.04	575385.44
7309.00	89.20	181.000	4446.88	3248.69S	37.39W	1.14	3248.91	1587126.61	575322.47
7341.00	89.10	180.700	4447.35	3280.69S	37.87W	0.99	3280.90	1587126.13	575290.48
7405.00	89.00	180.600	4448.42	3344.67S	38.59W	0.22	3344.89	1587125.41	575226.49
7437.00	89.10	180.300	4448.95	3376.67S	38.84W	0.99	3376.89	1587125.16	575194.50
7501.00	89.60	180.100	4449.67	3440.66S	39.07W	0.84	3440.88	1587124.93	575130.51
7533.00	90.00	180.500	4449.78	3472.66S	39.24W	1.77	3472.88	1587124.77	575098.51
7628.00	91.90	181.500	4448.21	3567.63S	40.89W	2.26	3567.86	1587123.11	575003.55
7660.00	91.90	181.900	4447.15	3599.60S	41.84W	1.25	3599.84	1587122.16	574971.58
7724.00	89.70	182.200	4446.25	3663.55S	44.13W	3.47	3663.81	1587119.87	574907.63
7820.00	88.30	180.100	4447.93	3759.51S	46.06W	2.63	3759.78	1587117.94	574811.68
7915.00	88.60	179.600	4450.50	3854.47S	45.81W	0.61	3854.74	1587118.19	574716.72
7979.00	89.60	180.100	4451.51	3918.46S	45.64W	1.75	3918.72	1587118.36	574652.73
8011.00	89.90	180.200	4451.64	3950.46S	45.73W	0.99	3950.72	1587118.28	574620.74
8075.00	90.80	179.900	4451.25	4014.46S	45.78W	1.48	4014.72	1587118.22	574556.74
8107.00	90.50	179.000	4450.89	4046.45S	45.47W	2.96	4046.71	1587118.53	574524.75
8171.00	90.60	178.300	4450.28	4110.43S	43.97W	1.10	4110.67	1587120.04	574460.77
8202.00	91.30	177.900	4449.76	4141.41S	42.94W	2.60	4141.63	1587121.06	574429.79
8234.00	91.60	177.600	4448.95	4173.38S	41.68W	1.33	4173.59	1587122.32	574397.83
8298.00	90.80	178.000	4447.61	4237.32S	39.23W	1.40	4237.50	1587124.78	574333.89
8362.00	91.20	178.900	4446.50	4301.28S	37.50W	1.54	4301.44	1587126.51	574269.93
8394.00	91.70	178.500	4445.69	4333.26S	36.77W	2.00	4333.41	1587127.23	574237.95
8490.00	91.20	178.700	4443.26	4429.20S	34.43W	0.56	4429.32	1587129.58	574142.02
8586.00	91.30	177.600	4441.16	4525.13S	31.33W	1.15	4525.21	1587132.67	574046.10
8681.00	92.00	176.700	4438.43	4619.97S	26.61W	1.20	4620.00	1587137.40	573951.26
8745.00	91.80	175.900	4436.30	4683.80S	22.48W	1.29	4683.79	1587141.52	573887.43
8797.00	91.80	175.900	4434.67	4735.64S	18.76W	==>	4735.59	1587145.24	573835.59

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 Vertical Section is from 0.00N 0.00E on azimuth 180.580 degrees
 Bottom hole distance is 4735.68 Feet on azimuth 180.23 degrees from Wellhead
 Calculation method uses Minimum Curvature method
 Prepared by
 Date Printed: 2-May-2012



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Sec 10 - 21S - 24W, Kansas
Hodgeman County
Wellbore: Frusher 1-10H (Actual)

Comments

MD[ft]	TVD[ft]	North[ft]	East[ft]	Comment
8797.00	4434.67	4735.64S	18.76W	Projection to Bit @ TD

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