

Standard Wellpath Report
 Sandridge
 Sec 16 - 34S - 6W, Kansas
 Harper County
 Wellbore: Robb 3406 2-16H (Actual)

Wellbore

Name	Created	Last Revised
Robb 3406 2-16H (Actual)	24-Jul-2013	12-Aug-2013

Well

Name	Government ID	Last Revised
Robb 3406 2-16H		24-Jul-2013

Slot

Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Robb 3406 2-16H	156128.0000	2154237.0000	N37 5 39.2908	W97 58 16.4164	227.99S	1666.94W

Installation

Name	Easting	Northing	Coord System Name	North Alignment
Harper County	2155904.0000	156356.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Field

Name	Easting	Northing	Coord System Name	North Alignment
Sec 16 - 34S - 6W	2155904.0000	156356.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Created By

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Comments

<p>FINAL SURVEYS: 9039 is a projection to bit @ TD</p>

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Sec 16 - 34S - 6W, 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	2154237.00	156128.00
689.00	0.30	35.300	689.00	1.47N	1.04E	0.04	-1.53	2154238.04	156129.47
782.00	0.80	19.200	781.99	2.28N	1.40E	0.56	-2.36	2154238.40	156130.28
875.00	0.30	338.000	874.99	3.12N	1.52E	0.65	-3.20	2154238.52	156131.12
1061.00	0.60	19.600	1060.98	4.49N	1.66E	0.23	-4.58	2154238.66	156132.49
1243.00	0.10	264.600	1242.98	5.37N	1.82E	0.36	-5.47	2154238.82	156133.37
1709.00	0.10	22.300	1708.98	5.71N	1.57E	0.04	-5.79	2154238.57	156133.71
1899.00	0.40	233.700	1898.98	5.47N	1.10E	0.26	-5.53	2154238.10	156133.47
2373.00	0.70	292.000	2372.96	5.58N	2.92W	0.13	-5.41	2154234.08	156133.58
2846.00	0.70	15.700	2845.93	9.44N	4.81W	0.20	-9.17	2154232.19	156137.44
3321.00	0.70	44.700	3320.90	14.30N	1.99W	0.07	-14.17	2154235.01	156142.30
3784.00	0.40	184.400	3783.89	14.70N	0.12W	0.22	-14.67	2154236.88	156142.70
3828.00	1.00	172.400	3827.89	14.16N	0.08W	1.40	-14.14	2154236.92	156142.16
3859.00	2.60	195.200	3858.87	13.22N	0.23W	5.56	-13.18	2154236.77	156141.22
3891.00	4.60	199.100	3890.81	11.30N	0.84W	6.29	-11.24	2154236.16	156139.30
3922.00	6.50	200.900	3921.66	8.49N	1.87W	6.15	-8.38	2154235.13	156136.49
3954.00	8.30	203.800	3953.39	4.68N	3.45W	5.74	-4.49	2154233.55	156132.68
3985.00	10.70	202.800	3983.96	0.02S	5.47W	7.76	0.31	2154231.53	156127.98
4017.00	13.20	200.000	4015.27	6.19S	7.87W	8.02	6.61	2154229.13	156121.81
4049.00	15.20	200.400	4046.29	13.56S	10.58W	6.26	14.11	2154226.42	156114.44
4081.00	17.00	203.200	4077.03	21.79S	13.89W	6.12	22.51	2154223.11	156106.21
4112.00	18.70	205.000	4106.54	30.46S	17.78W	5.76	31.38	2154219.22	156097.54
4144.00	21.20	205.200	4136.62	40.34S	22.41W	7.82	41.50	2154214.59	156087.65
4176.00	24.70	204.800	4166.08	51.65S	27.68W	10.95	53.08	2154209.32	156076.35
4208.00	28.00	203.700	4194.75	64.60S	33.50W	10.42	66.33	2154203.50	156063.39
4240.00	31.30	204.300	4222.56	79.06S	39.94W	10.35	81.11	2154197.05	156048.94
4271.00	34.20	203.800	4248.63	94.38S	46.77W	9.40	96.77	2154190.22	156033.62
4303.00	36.20	204.100	4274.77	111.23S	54.26W	6.27	114.01	2154182.73	156016.76
4334.00	39.00	204.300	4299.33	128.48S	62.02W	9.04	131.66	2154174.98	155999.51
4366.00	41.60	204.000	4323.74	147.37S	70.48W	8.15	150.97	2154166.51	155980.63
4397.00	44.00	202.700	4346.48	166.70S	78.83W	8.25	170.74	2154158.17	155961.29
4429.00	47.10	201.800	4368.89	187.85S	87.47W	9.89	192.32	2154149.53	155940.15
4461.00	49.60	201.000	4390.15	210.11S	96.19W	8.03	215.02	2154140.81	155917.89
4492.00	51.30	202.500	4409.89	232.31S	105.05W	6.63	237.66	2154131.95	155895.69
4524.00	53.30	203.700	4429.46	255.59S	114.99W	6.92	261.46	2154122.01	155872.40
4555.00	55.50	204.700	4447.50	278.58S	125.32W	7.57	284.97	2154111.67	155849.41
4586.00	58.10	204.400	4464.48	302.17S	136.10W	8.43	309.11	2154100.90	155825.82
4618.00	60.90	204.000	4480.72	327.32S	147.40W	8.82	334.84	2154089.60	155800.67
4649.00	63.70	202.800	4495.13	352.51S	158.29W	9.66	360.58	2154078.70	155775.48
4681.00	66.50	201.400	4508.60	379.40S	169.21W	9.61	388.02	2154067.79	155748.59
4713.00	69.60	200.800	4520.56	407.09S	179.89W	9.84	416.25	2154057.10	155720.90
4744.00	71.90	199.900	4530.78	434.52S	190.06W	7.91	444.20	2154046.93	155693.46
4776.00	74.20	197.600	4540.11	463.51S	199.90W	9.95	473.67	2154037.09	155664.48
4807.00	77.20	196.000	4547.76	492.26S	208.58W	10.89	502.86	2154028.42	155635.72
4839.00	79.60	194.600	4554.20	522.49S	216.85W	8.64	533.49	2154020.15	155605.49
4870.00	80.70	193.100	4559.50	552.15S	224.16W	5.94	563.50	2154012.84	155575.83
4902.00	81.10	190.700	4564.56	583.06S	230.67W	7.51	594.72	2154006.32	155544.92
4934.00	81.80	187.800	4569.32	614.29S	235.76W	9.22	626.18	2154001.23	155513.69
4966.00	82.60	186.000	4573.67	645.76S	239.56W	6.11	657.82	2153997.43	155482.21
4998.00	83.20	184.400	4577.62	677.39S	242.44W	5.30	689.55	2153994.55	155450.59
5029.00	83.40	183.700	4581.24	708.10S	244.62W	2.33	720.33	2153992.37	155419.88
5061.00	83.40	183.800	4584.92	739.82S	246.70W	0.31	752.12	2153990.30	155388.15
5092.00	86.30	183.000	4587.70	770.64S	248.53W	9.70	782.99	2153988.46	155357.34
5124.00	87.00	183.300	4589.57	802.53S	250.28W	2.38	814.93	2153986.71	155325.44
5155.00	87.20	183.200	4591.14	833.44S	252.04W	0.72	845.89	2153984.95	155294.53
5187.00	87.30	183.200	4592.67	865.36S	253.82W	0.31	877.86	2153983.17	155262.61
5219.00	87.50	183.200	4594.12	897.27S	255.61W	0.62	909.82	2153981.39	155230.69
5250.00	87.70	183.300	4595.42	928.20S	257.36W	0.72	940.80	2153979.63	155199.77
5282.00	87.50	183.100	4596.76	960.12S	259.15W	0.88	972.77	2153977.84	155167.85
5313.00	87.60	182.800	4598.09	991.05S	260.74W	1.02	1003.74	2153976.25	155136.92
5345.00	89.90	182.500	4598.79	1023.00S	262.22W	7.25	1035.73	2153974.77	155104.96
5382.00	90.20	182.100	4598.75	1059.97S	263.70W	1.35	1072.73	2153973.29	155067.99
5452.00	91.00	182.300	4598.02	1129.92S	266.39W	1.18	1142.71	2153970.60	154998.04
5514.00	92.20	182.400	4596.29	1191.84S	268.93W	1.94	1204.68	2153968.06	154936.12
5576.00	93.10	181.900	4593.42	1253.73S	271.26W	1.66	1266.61	2153965.73	154874.22
5637.00	93.00	180.900	4590.18	1314.63S	272.74W	1.65	1327.49	2153964.25	154813.33
5729.00	91.00	180.300	4586.97	1406.56S	273.71W	2.27	1419.34	2153963.28	154721.39
5821.00	90.20	179.800	4586.00	1498.55S	273.79W	1.03	1511.20	2153963.20	154629.39
5913.00	89.60	179.700	4586.16	1590.55S	273.39W	0.66	1603.05	2153963.61	154537.39
6005.00	89.20	178.900	4587.13	1682.54S	272.26W	0.97	1694.84	2153964.73	154445.40
6098.00	90.10	178.600	4587.69	1775.51S	270.23W	1.02	1787.56	2153966.76	154352.42
6191.00	89.70	178.500	4587.86	1868.48S	267.88W	0.44	1880.27	2153969.11	154259.45

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Robb 3406 2-16H 0.00ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 183.110 degrees
Bottom hole distance is 4721.72 Feet on azimuth 183.04 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 12-Aug-2013

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Sandridge
Sec 16 - 34S - 6W, Kansas
Harper County
Wellbore: Robb 3406 2-16H (Actual)

Wellpath (Grid) Report

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Easting	Northing
6283.00	90.20	178.900	4587.94	1960.46S	265.79W	0.70	1972.00	2153971.20	154167.47
6377.00	89.60	179.600	4588.10	2054.45S	264.56W	0.98	2065.78	2153972.43	154073.48
6468.00	89.20	179.500	4589.05	2145.44S	263.85W	0.45	2156.60	2153973.14	153982.48
6559.00	90.40	179.700	4589.37	2236.44S	263.21W	1.34	2247.43	2153973.78	153891.48
6650.00	90.20	179.800	4588.90	2327.44S	262.81W	0.25	2338.27	2153974.18	153800.48
6741.00	89.20	179.700	4589.37	2418.43S	262.42W	1.10	2429.11	2153974.57	153709.48
6834.00	90.40	178.900	4589.70	2511.42S	261.28W	1.55	2521.90	2153975.71	153616.49
6930.00	90.00	179.200	4589.36	2607.41S	259.69W	0.52	2617.66	2153977.30	153520.50
7027.00	90.80	179.800	4588.68	2704.40S	258.84W	1.03	2714.46	2153978.15	153423.50
7122.00	90.70	179.800	4587.44	2799.39S	258.51W	0.11	2809.30	2153978.48	153328.51
7186.00	89.50	178.500	4587.33	2863.38S	257.56W	2.76	2873.14	2153979.43	153264.51
7249.00	88.60	178.800	4588.37	2926.36S	256.08W	1.51	2935.94	2153980.91	153201.54
7281.00	88.80	179.200	4589.10	2958.34S	255.52W	1.40	2967.85	2153981.47	153169.55
7313.00	90.00	179.700	4589.43	2990.34S	255.21W	4.06	2999.78	2153981.78	153137.55
7408.00	87.30	178.800	4591.67	3085.29S	253.97W	3.00	3094.53	2153983.02	153042.59
7503.00	88.00	177.800	4595.57	3180.17S	251.15W	1.28	3189.11	2153985.84	152947.71
7597.00	88.70	178.400	4598.27	3274.08S	248.04W	0.98	3282.72	2153988.95	152853.80
7692.00	90.50	178.800	4598.94	3369.04S	245.72W	1.94	3377.41	2153991.27	152758.83
7787.00	90.00	179.100	4598.52	3464.03S	243.98W	0.61	3472.16	2153993.01	152663.85
7883.00	90.20	179.400	4598.36	3560.02S	242.72W	0.38	3567.94	2153994.27	152567.85
7978.00	89.80	180.000	4598.36	3655.02S	242.22W	0.76	3662.78	2153994.77	152472.85
8073.00	89.00	180.500	4599.35	3750.01S	242.64W	0.99	3757.65	2153994.35	152377.85
8168.00	91.80	180.200	4598.69	3845.00S	243.22W	2.96	3852.53	2153993.77	152282.86
8263.00	89.40	177.800	4597.69	3939.96S	241.56W	3.57	3947.27	2153995.43	152187.89
8358.00	90.10	177.300	4598.11	4034.87S	237.50W	0.91	4041.82	2153999.49	152092.98
8454.00	93.80	179.600	4594.84	4130.76S	234.90W	4.54	4137.42	2154002.09	151997.09
8549.00	94.40	182.200	4588.05	4225.50S	236.39W	2.80	4232.10	2154000.60	151902.35
8644.00	90.00	182.300	4584.40	4320.33S	240.12W	4.63	4326.99	2153996.88	151807.51
8676.00	89.70	182.200	4584.48	4352.30S	241.37W	0.99	4358.99	2153995.62	151775.54
8739.00	90.10	182.000	4584.59	4415.26S	243.68W	0.71	4421.98	2153993.31	151712.58
8835.00	87.90	181.600	4586.27	4511.19S	246.70W	2.33	4517.93	2153990.30	151616.64
8929.00	88.20	181.200	4589.47	4605.11S	248.99W	0.53	4611.84	2153988.00	151522.72
8993.00	88.60	180.800	4591.26	4669.08S	250.11W	0.88	4675.77	2153986.88	151458.75
9039.00	88.60	180.800	4592.38	4715.06S	250.75W	==>	4721.72	2153986.24	151412.77

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