



Standard Wellpath Report  
Sandridge  
Sec 13 - 31S - 20W, Kansas  
Comanche County  
Wellbore: Gabriel 3120 1-12H (Actual)

**Wellbore**

Name	Created	Last Revised
Gabriel 3120 1-12H (Actual)	22-Feb-2013	19-Mar-2013

**Well**

Name	Government ID	Last Revised
Gabriel 3120 1-12H		22-Feb-2013

**Slot**

Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Gabriel 3120 1-12H	248101.0000	1727381.0000	N37 20 39.4126	W99 26 15.9869	337.01S	649.01W

**Installation**

Name	Easting	Northing	Coord System Name	North Alignment
Comanche County	1728030.0000	248438.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

**Field**

Name	Easting	Northing	Coord System Name	North Alignment
Sec 13 - 31S - 20W	1728030.0000	248438.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

**Created By**

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**Comments**

FINAL Surveys MD 10314 is projection to bit @ TD
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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	1727381.00	248101.00
1154.00	0.50	126.300	1153.99	2.98S	4.06E	0.04	-2.89	1727385.06	248098.02
1430.00	1.10	94.500	1429.96	3.90S	7.67E	0.26	-3.72	1727388.67	248097.10
1892.00	1.10	66.400	1891.88	2.47S	16.15E	0.12	-2.10	1727397.15	248098.53
2367.00	0.80	50.500	2366.81	1.46N	22.89E	0.08	1.99	1727403.89	248102.46
2842.00	0.20	85.000	2841.79	3.64N	26.28E	0.14	4.25	1727407.28	248104.64
3317.00	0.50	337.100	3316.79	5.62N	26.30E	0.12	6.23	1727407.29	248106.62
3791.00	0.70	65.400	3790.77	8.73N	28.12E	0.18	9.38	1727409.12	248109.73
4107.00	0.70	61.100	4106.74	10.47N	31.57E	==>	11.19	1727412.57	248111.47
4138.00	0.90	53.400	4137.74	10.71N	31.93E	0.73	11.44	1727412.93	248111.71
4170.00	1.40	13.400	4169.73	11.24N	32.22E	2.86	11.98	1727413.22	248112.24
4201.00	3.60	0.500	4200.70	12.58N	32.32E	7.28	13.32	1727413.32	248113.58
4233.00	5.70	356.100	4232.60	15.17N	32.22E	6.65	15.91	1727413.22	248116.17
4265.00	7.40	354.800	4264.39	18.81N	31.92E	5.33	19.54	1727412.92	248119.81
4296.00	9.30	353.200	4295.06	23.28N	31.45E	6.17	24.00	1727412.45	248124.28
4328.00	11.40	357.000	4326.53	29.01N	30.97E	6.90	29.72	1727411.97	248130.01
4360.00	13.50	3.000	4357.78	35.90N	31.00E	7.70	36.60	1727412.00	248136.90
4391.00	16.20	3.000	4387.74	43.83N	31.42E	8.71	44.54	1727412.42	248144.83
4423.00	18.60	1.300	4418.28	53.39N	31.77E	7.67	54.11	1727412.77	248154.39
4454.00	20.70	0.200	4447.47	63.82N	31.90E	6.88	64.53	1727412.90	248164.81
4486.00	22.80	359.500	4477.19	75.67N	31.87E	6.61	76.39	1727412.87	248176.67
4518.00	24.80	358.800	4506.47	88.58N	31.67E	6.31	89.29	1727412.67	248189.58
4549.00	26.40	359.100	4534.42	101.98N	31.43E	5.18	102.67	1727412.43	248202.97
4581.00	28.20	359.400	4562.86	116.65N	31.24E	5.64	117.34	1727412.24	248217.65
4613.00	30.20	0.500	4590.79	132.26N	31.23E	6.47	132.95	1727412.23	248233.26
4644.00	32.40	0.900	4617.28	148.36N	31.43E	7.13	149.05	1727412.43	248249.36
4676.00	35.00	1.000	4643.90	166.11N	31.72E	8.13	166.80	1727412.72	248267.11
4708.00	36.90	0.800	4669.80	184.90N	32.02E	8.95	185.59	1727413.01	248285.89
4739.00	38.50	0.000	4694.33	203.85N	32.15E	5.40	204.54	1727413.14	248304.85
4771.00	40.20	358.900	4719.07	224.14N	31.95E	5.74	224.82	1727412.95	248325.14
4803.00	42.40	358.100	4743.11	245.25N	31.39E	7.07	245.91	1727412.39	248346.25
4834.00	45.10	357.900	4765.50	266.67N	30.64E	8.72	267.31	1727411.64	248367.67
4866.00	47.70	357.100	4787.57	289.82N	29.63E	8.32	290.43	1727410.63	248390.82
4898.00	50.00	356.900	4808.63	313.88N	28.37E	7.20	314.45	1727409.37	248414.88
4929.00	50.60	357.500	4828.43	337.71N	27.20E	2.44	338.24	1727408.20	248438.70
4961.00	50.90	357.300	4848.67	362.46N	26.08E	1.06	362.97	1727407.08	248463.46
4993.00	51.10	357.300	4868.81	387.30N	24.91E	0.63	387.77	1727405.91	248488.30
5024.00	51.10	357.100	4888.28	411.40N	23.73E	0.50	411.84	1727404.73	248512.39
5056.00	51.20	356.900	4908.35	436.29N	22.42E	0.58	436.69	1727403.42	248537.28
5088.00	50.70	356.800	4928.51	461.10N	21.06E	1.58	461.46	1727402.06	248562.09
5119.00	51.90	357.400	4947.89	485.26N	19.83E	4.16	485.59	1727400.83	248586.25
5151.00	55.20	357.600	4966.90	510.97N	18.71E	10.32	511.27	1727399.71	248611.97
5183.00	58.70	358.300	4984.35	537.77N	17.76E	11.09	538.04	1727398.76	248638.77
5214.00	61.70	358.500	4999.76	564.66N	17.01E	9.69	564.90	1727398.01	248665.65
5246.00	65.00	358.400	5014.11	593.25N	16.23E	10.32	593.46	1727397.23	248694.24
5278.00	67.70	358.900	5026.94	622.55N	15.54E	8.56	622.74	1727396.54	248723.54
5309.00	70.10	359.600	5038.10	651.47N	15.17E	8.02	651.64	1727396.17	248752.46
5341.00	73.20	0.100	5048.18	681.83N	15.09E	9.80	682.00	1727396.09	248782.82
5372.00	75.80	0.600	5056.46	711.70N	15.27E	8.53	711.87	1727396.27	248812.69
5404.00	79.40	0.500	5063.33	742.95N	15.57E	11.25	743.11	1727396.57	248843.94
5436.00	83.60	0.500	5068.06	774.59N	15.85E	13.13	774.75	1727396.85	248875.58
5473.00	88.30	359.800	5070.67	811.49N	15.94E	12.84	811.64	1727396.94	248912.47
5552.00	90.80	359.700	5071.29	890.48N	15.60E	3.17	890.60	1727396.60	248939.46
5647.00	91.30	359.900	5069.55	985.46N	15.27E	0.57	985.55	1727396.27	249086.45
5742.00	91.70	2.500	5067.06	1080.40N	17.26E	2.77	1080.51	1727398.26	249181.38
5837.00	90.40	2.800	5065.32	1175.28N	21.65E	1.40	1175.47	1727402.65	249276.26
5932.00	89.90	2.500	5065.07	1270.18N	26.04E	0.61	1270.44	1727407.04	249371.16
6027.00	89.80	2.000	5065.32	1365.10N	29.77E	0.54	1365.43	1727410.77	249466.08
6122.00	89.00	0.900	5066.32	1460.07N	32.17E	1.43	1460.42	1727413.17	249561.04
6217.00	88.60	359.900	5068.31	1555.04N	32.84E	1.13	1555.39	1727413.84	249656.02
6309.00	89.10	0.200	5070.15	1647.02N	32.92E	0.63	1647.34	1727413.92	249748.00
6401.00	89.70	0.100	5071.12	1739.02N	33.16E	0.66	1739.32	1727414.16	249839.99
6494.00	91.30	0.400	5070.31	1832.01N	33.56E	1.75	1832.30	1727414.56	249932.98
6587.00	91.40	0.300	5068.11	1924.98N	34.13E	0.15	1925.26	1727415.13	250025.95
6679.00	91.40	1.600	5065.87	2016.94N	35.66E	1.41	2017.23	1727416.65	250117.91
6772.00	91.40	2.800	5063.59	2109.84N	39.22E	1.29	2110.19	1727420.22	250210.81
6864.00	89.70	2.400	5062.71	2201.74N	43.40E	1.90	2202.15	1727424.40	250302.70
6956.00	90.00	2.700	5062.95	2293.65N	47.49E	0.46	2294.13	1727428.49	250394.61
7048.00	90.00	1.800	5062.95	2385.58N	51.10E	0.98	2386.12	1727432.10	250486.54
7140.00	89.70	0.400	5063.19	2477.56N	52.87E	1.56	2478.12	1727433.87	250578.52

All data is in Feet unless otherwise stated  
 Coordinates are from Slot and TVD's are from Slot ( Gabriel 3120 1-12H 0.00ft above Mean Sea Level )  
 Vertical Section is from 0.00N 0.00E on azimuth 1.320 degrees  
 Bottom hole distance is 5651.41 Feet on azimuth 1.18 degrees from Wellhead

Calculation method uses Minimum Curvature method

Prepared by  
 Date Printed: 19-Mar-2013



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 Sandridge  
 Sec 13 - 31S - 20W, Kansas  
 Comanche County  
 Wellbore: Gabriel 3120 1-12H (Actual)

**Wellpath (Grid) Report**

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Easting	Northing
7232.00	90.20	1.500	5063.27	2569.54N	54.39E	1.31	2570.11	1727435.39	250670.50
7324.00	90.60	1.100	5062.63	2661.52N	56.48E	0.61	2662.11	1727437.48	250762.47
7415.00	90.70	1.400	5061.60	2752.49N	58.47E	0.35	2753.10	1727439.47	250853.44
7507.00	91.30	1.600	5059.99	2844.44N	60.87E	0.69	2845.09	1727441.87	250945.40
7600.00	91.80	1.100	5057.48	2937.38N	63.06E	0.76	2938.05	1727444.06	251038.33
7692.00	91.20	1.700	5055.07	3029.32N	65.31E	0.92	3030.02	1727446.31	251130.27
7784.00	90.00	1.900	5054.11	3121.27N	68.20E	1.32	3122.01	1727449.20	251222.22
7877.00	89.40	1.300	5054.59	3214.23N	70.80E	0.91	3215.01	1727451.80	251315.18
7969.00	90.00	1.900	5055.07	3306.19N	73.37E	0.92	3307.01	1727454.37	251407.14
8061.00	89.40	1.000	5055.56	3398.16N	75.69E	1.18	3399.00	1727456.69	251499.11
8156.00	89.50	0.500	5056.47	3493.15N	76.94E	0.54	3493.99	1727457.94	251594.09
8251.00	90.20	0.800	5056.72	3588.14N	78.02E	0.80	3588.99	1727459.01	251689.08
8346.00	90.50	0.900	5056.14	3683.13N	79.42E	0.33	3683.98	1727460.42	251784.07
8440.00	90.80	1.000	5055.07	3777.11N	80.98E	0.34	3777.97	1727461.98	251878.05
8535.00	91.50	2.200	5053.16	3872.05N	83.63E	1.46	3872.95	1727464.63	251972.99
8630.00	91.60	1.700	5050.59	3966.96N	86.87E	0.54	3967.91	1727467.86	252067.90
8725.00	91.40	1.100	5048.11	4061.90N	89.19E	0.67	4062.88	1727470.19	252162.83
8820.00	91.40	2.700	5045.79	4156.82N	92.34E	1.68	4157.84	1727473.33	252257.75
8915.00	90.30	2.400	5044.38	4251.71N	96.56E	1.20	4252.81	1727477.56	252352.64
9010.00	90.80	2.400	5043.46	4346.62N	100.54E	0.53	4347.78	1727481.54	252447.55
9105.00	91.60	1.500	5041.48	4441.54N	103.77E	1.27	4442.76	1727484.77	252542.47
9200.00	89.40	359.400	5040.65	4536.53N	104.52E	3.20	4537.73	1727485.52	252637.45
9295.00	89.40	0.500	5041.64	4631.52N	104.43E	1.16	4632.70	1727485.43	252732.44
9390.00	89.60	0.700	5042.47	4726.51N	105.43E	0.30	4727.69	1727486.43	252827.43
9485.00	90.00	1.400	5042.80	4821.49N	107.17E	0.85	4822.68	1727488.17	252922.41
9580.00	89.00	1.000	5043.63	4916.47N	109.16E	1.13	4917.68	1727490.16	253017.39
9675.00	88.80	2.000	5045.45	5011.42N	111.65E	1.07	5012.66	1727492.64	253112.33
9770.00	88.40	1.600	5047.78	5106.34N	114.63E	0.60	5107.63	1727495.63	253207.26
9865.00	88.40	0.500	5050.43	5201.29N	116.37E	1.16	5202.59	1727497.37	253302.20
9959.00	89.60	0.100	5052.07	5295.27N	116.86E	1.35	5296.56	1727497.86	253396.18
10054.00	89.50	0.200	5052.81	5390.27N	117.11E	0.15	5391.53	1727498.11	253491.18
10149.00	90.10	360.000	5053.15	5485.26N	117.28E	0.67	5486.51	1727498.27	253586.17
10244.00	91.50	359.300	5051.82	5580.25N	116.70E	1.65	5581.46	1727497.69	253681.16
10265.00	91.80	359.600	5051.22	5601.24N	116.49E	2.02	5602.44	1727497.49	253702.15
10314.00	91.80	359.600	5049.68	5650.22N	116.15E	==>	5651.39	1727497.15	253751.12

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Sandridge  
Sec 13 - 31S - 20W, Kansas  
Comanche County  
Wellbore: Gabriel 3120 1-12H (Actual)

**Comments**

MD[ft]	TVD[ft]	North[ft]	East[ft]	Comment
10314.00	5049.68	5650.22N	116.15E	Projection to bit @ TD

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