



Job Number: CA131601

Company: Bill Barrett Corp.

Lease/Well: Merritt 6-66-9-0560BH

Location: NAD 83, 40.50932 N, 104.78119 W

Rig Name: Nabors M 22

RKB: 4844

G.L. or M.S.L.: GL

State/Country: Colorado, USA

Declination: 8.59

Grid:

File name: C:\WINSERVE\CURREN~1\CA131601.SVY

Date/Time: 30-Aug-13 / 20:37

Curve Name: Merritt 6-66-9-0560BH Surveys

Merritt 6-66-9-0560BH Surveys

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 184.07
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

<i>Measured Depth FT</i>	<i>Incl Angle Deg</i>	<i>Drift Direction Deg</i>	<i>True Vertical Depth</i>	<i>N-S FT</i>	<i>E-W FT</i>	<i>Vertical Section FT</i>	<i>C L O S U R E Distance FT</i>	<i>Direction Deg</i>	<i>Dogleg Severity Deg/100</i>
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
93.00	.63	203.27	93.00	-.47	-.20	.48	.51	203.27	.68
153.00	.52	215.79	153.00	-.99	-.49	1.03	1.11	206.32	.28
243.00	.28	249.08	242.99	-1.40	-.94	1.47	1.69	213.70	.36
333.00	.24	272.26	332.99	-1.47	-1.33	1.57	1.99	222.04	.12
423.00	.14	324.69	422.99	-1.38	-1.58	1.49	2.10	228.95	.21
513.00	.53	2.09	512.99	-.87	-1.63	.99	1.85	241.86	.47
603.00	.92	13.17	602.98	.25	-1.45	-.14	1.47	279.70	.46
693.00	.88	10.26	692.97	1.63	-1.16	-1.54	2.00	324.53	.07
End of Gyro Surveys									
763.00	.79	8.57	762.96	2.64	-.99	-2.56	2.82	339.34	.13
First MWD Survey									
876.00	.60	39.50	875.96	3.86	-.50	-3.82	3.90	352.60	.37
970.00	1.80	306.60	969.94	5.12	-1.37	-5.01	5.31	344.99	2.05
1062.00	2.90	276.30	1061.86	6.24	-4.85	-5.88	7.90	322.16	1.76
1154.00	3.40	302.40	1153.73	7.96	-9.46	-7.27	12.37	310.06	1.63
1246.00	5.10	303.10	1245.47	11.65	-15.19	-10.55	19.15	307.49	1.85
1339.00	5.40	301.00	1338.08	16.17	-22.41	-14.53	27.63	305.81	.38
1430.00	5.30	300.70	1428.69	20.52	-29.69	-18.36	36.09	304.64	.11
1526.00	5.10	301.50	1524.29	25.01	-37.14	-22.31	44.78	303.95	.22
1622.00	4.90	298.30	1619.93	29.18	-44.39	-25.96	53.12	303.32	.36
1717.00	4.40	291.60	1714.61	32.45	-51.35	-28.72	60.74	302.29	.78
1813.00	5.60	294.60	1810.25	35.75	-59.03	-31.47	69.02	301.20	1.28
1908.00	5.90	301.50	1904.77	40.23	-67.41	-35.35	78.51	300.83	.79
2004.00	5.00	314.70	2000.34	45.76	-74.59	-40.35	87.51	301.52	1.60

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
				FT	FT	FT	Distance FT	Direction Deg	
2099.00	4.00	301.20	2095.05	50.38	-80.37	-44.55	94.86	302.08	1.53
2194.00	3.30	298.80	2189.85	53.42	-85.60	-47.21	100.90	301.97	.75
2290.00	4.90	311.10	2285.61	57.44	-91.11	-50.83	107.71	302.23	1.89
2385.00	5.00	303.60	2380.25	62.40	-97.62	-55.32	115.86	302.59	.69
2479.00	4.50	300.10	2473.93	66.52	-104.22	-58.95	123.64	302.55	.61
2575.00	4.20	298.50	2569.65	70.08	-110.57	-62.06	130.91	302.37	.34
2669.00	4.60	304.50	2663.38	73.86	-116.70	-65.39	138.11	302.33	.65
2765.00	4.80	311.50	2759.06	78.70	-122.88	-69.78	145.92	302.64	.63
2859.00	4.70	309.40	2852.73	83.75	-128.80	-74.40	153.64	303.03	.21
2954.00	4.00	308.10	2947.46	88.27	-134.42	-78.51	160.81	303.29	.74
3050.00	5.30	306.80	3043.14	92.99	-140.60	-82.78	168.57	303.48	1.36
3145.00	5.10	307.30	3137.75	98.18	-147.47	-87.46	177.17	303.65	.22
3240.00	4.50	304.90	3232.42	102.87	-153.89	-91.69	185.11	303.76	.67
3336.00	3.90	303.60	3328.16	106.83	-159.70	-95.23	192.14	303.78	.63
3432.00	4.40	289.60	3423.91	109.87	-165.89	-97.82	198.97	303.52	1.17
3527.00	4.50	293.90	3518.62	112.61	-172.73	-100.06	206.19	303.10	.37
3623.00	4.00	292.20	3614.36	115.40	-179.27	-102.38	213.20	302.77	.54
3717.00	5.40	290.30	3708.04	118.17	-186.45	-104.64	220.75	302.37	1.50
3812.00	5.30	288.90	3802.63	121.14	-194.80	-107.01	229.39	301.88	.17
3907.00	5.50	287.80	3897.20	123.96	-203.28	-109.21	238.09	301.37	.24
4003.00	6.70	295.10	3992.66	127.74	-212.74	-112.32	248.14	300.98	1.49
4098.00	6.60	293.60	4087.02	132.27	-222.76	-116.13	259.07	300.70	.21
4194.00	6.10	304.10	4182.43	137.34	-232.04	-120.53	269.64	300.62	1.31
4289.00	5.20	308.50	4276.97	142.85	-239.59	-125.49	278.94	300.81	1.05
4384.00	4.10	309.70	4371.66	147.70	-245.57	-129.90	286.57	301.03	1.16
4480.00	4.40	307.80	4467.39	152.15	-251.12	-133.94	293.62	301.21	.35
4574.00	6.00	312.30	4561.01	157.67	-257.60	-138.99	302.02	301.47	1.76
4669.00	5.00	312.70	4655.57	163.82	-264.32	-144.64	310.97	301.79	1.05
4765.00	3.60	315.90	4751.29	168.82	-269.49	-149.27	318.00	302.06	1.48
4861.00	4.30	302.20	4847.07	172.90	-274.63	-152.97	324.53	302.19	1.22
4956.00	5.10	292.00	4941.75	176.38	-281.56	-155.95	332.24	302.06	1.21
5050.00	6.70	291.50	5035.25	179.96	-290.54	-158.88	341.75	301.77	1.70
5145.00	6.50	293.60	5129.62	184.14	-300.62	-162.34	352.53	301.49	.33
5240.00	6.00	308.60	5224.06	189.39	-309.43	-166.95	362.79	301.47	1.79
5335.00	5.00	309.90	5318.62	195.14	-316.49	-172.19	371.81	301.66	1.06
5431.00	5.10	308.40	5414.25	200.48	-323.04	-177.04	380.19	301.82	.17
5525.00	4.10	310.80	5507.94	205.27	-328.86	-181.41	387.66	301.97	1.08
5620.00	5.00	306.90	5602.64	209.97	-334.74	-185.69	395.14	302.10	1.00
5716.00	4.10	296.80	5698.34	214.03	-341.15	-189.28	402.73	302.10	1.25
5811.00	2.90	291.30	5793.16	216.44	-346.42	-191.30	408.47	302.00	1.31
5906.00	2.20	277.70	5888.07	217.55	-350.46	-192.13	412.50	301.83	.97
6001.00	1.50	273.70	5983.02	217.88	-353.51	-192.24	415.26	301.65	.75
6096.00	1.00	260.10	6078.00	217.82	-355.57	-192.03	416.98	301.49	.61
6191.00	.80	214.90	6172.99	217.13	-356.77	-191.26	417.65	301.33	.75
6286.00	.80	187.00	6267.98	215.93	-357.23	-190.03	417.42	301.15	.41

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E Distance FT	Direction Deg	Dogleg Severity Deg/100
6381.00	.50	94.90	6362.97	215.23	-356.89	-189.36	416.77	301.09	1.01
6476.00	.70	96.60	6457.97	215.13	-355.90	-189.33	415.87	301.15	.21
6506.00	.90	110.20	6487.97	215.03	-355.50	-189.26	415.47	301.17	.91
6538.00	2.80	133.40	6519.95	214.41	-354.70	-188.69	414.46	301.15	6.26
6570.00	6.50	146.60	6551.84	212.36	-353.13	-186.76	412.06	301.02	11.96
6602.00	10.80	154.00	6583.47	208.15	-350.82	-182.72	407.92	300.68	13.85
6634.00	14.60	160.60	6614.68	201.65	-348.16	-176.43	402.34	300.08	12.69
6666.00	18.20	166.80	6645.38	192.97	-345.68	-167.95	395.90	299.17	12.49
6697.00	21.50	175.30	6674.54	182.59	-344.11	-157.71	389.55	297.95	14.12
6729.00	24.60	179.10	6703.98	170.09	-343.53	-145.27	383.33	296.34	10.74
6760.00	25.60	179.30	6732.05	156.94	-343.34	-132.17	377.51	294.56	3.24
6792.00	28.90	176.50	6760.50	142.30	-342.79	-117.61	371.15	292.54	11.06
6824.00	29.50	175.90	6788.43	126.72	-341.75	-102.15	364.49	290.35	2.09
6856.00	31.70	174.10	6815.97	110.50	-340.32	-86.07	357.81	287.99	7.45
6887.00	36.00	174.40	6841.71	93.32	-338.60	-69.06	351.22	285.41	13.88
6919.00	39.90	175.80	6866.94	73.72	-336.93	-49.62	344.90	282.34	12.48
6951.00	42.20	176.80	6891.07	52.75	-335.57	-28.80	339.69	278.93	7.47
6982.00	44.90	178.20	6913.54	31.41	-334.65	-7.58	336.12	275.36	9.25
7015.00	47.40	178.20	6936.40	7.63	-333.90	16.09	333.99	271.31	7.58
7047.00	49.90	177.70	6957.54	-16.37	-333.04	39.97	333.44	267.19	7.90
7078.00	52.00	177.00	6977.07	-40.42	-331.92	63.88	334.38	263.06	7.00
7110.00	55.10	178.40	6996.08	-66.14	-330.90	89.46	337.44	258.70	10.31
7142.00	57.00	179.90	7013.95	-92.68	-330.51	115.90	343.26	254.34	7.10
7174.00	59.20	181.60	7030.86	-119.84	-330.87	143.02	351.90	250.09	8.22
7205.00	60.10	182.30	7046.52	-146.57	-331.78	169.75	362.71	246.17	3.50
7237.00	61.80	182.00	7062.06	-174.53	-332.83	197.71	375.81	242.33	5.38
7268.00	63.90	181.30	7076.21	-202.10	-333.62	225.27	390.06	238.79	7.07
7299.00	66.50	181.00	7089.21	-230.23	-334.19	253.37	405.82	235.44	8.43
7331.00	70.30	180.80	7100.98	-259.97	-334.65	283.07	423.77	232.16	11.89
7362.00	75.20	181.90	7110.18	-289.56	-335.35	312.63	443.07	229.19	16.17
7394.00	78.20	181.30	7117.54	-320.69	-336.22	343.74	464.63	226.35	9.55
7425.00	82.00	181.40	7122.86	-351.21	-336.94	374.24	486.70	223.81	12.26
7457.00	85.10	180.90	7126.46	-383.00	-337.58	405.99	510.54	221.39	9.81
7489.00	87.30	180.00	7128.58	-414.93	-337.83	437.86	535.06	219.15	7.43
7520.00	88.40	180.10	7129.74	-445.90	-337.86	468.76	559.44	217.15	3.56
7552.00	91.40	180.30	7129.80	-477.90	-337.97	500.68	585.33	215.27	9.40
7584.00	92.60	180.20	7128.68	-509.88	-338.11	532.59	611.80	213.55	3.76
7615.00	92.80	179.60	7127.22	-540.84	-338.05	563.47	637.80	212.01	2.04
7711.00	90.20	179.60	7124.71	-636.80	-337.38	659.14	720.65	207.92	2.71
7774.00	90.40	180.00	7124.38	-699.80	-337.16	721.97	776.79	205.72	.71
7806.00	90.40	179.90	7124.16	-731.80	-337.14	753.88	805.72	204.74	.31
7900.00	90.70	179.30	7123.25	-825.79	-336.48	847.59	891.71	202.17	.71
7996.00	90.10	179.40	7122.58	-921.78	-335.39	943.26	980.90	199.99	.63
8091.00	90.60	178.20	7122.00	-1016.76	-333.40	1037.86	1070.02	198.15	1.37
8187.00	90.90	179.30	7120.75	-1112.73	-331.31	1133.43	1161.00	196.58	1.19

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
				FT	FT	FT	Distance FT	Direction Deg	
8283.00	90.90	181.90	7119.24	-1208.70	-332.31	1229.24	1253.55	195.37	2.71
8378.00	89.20	183.40	7119.15	-1303.59	-336.70	1324.20	1346.37	194.48	2.39
8473.00	89.80	182.60	7119.98	-1398.46	-341.68	1419.18	1439.59	193.73	1.05
8569.00	91.00	181.90	7119.31	-1494.38	-345.44	1515.13	1533.79	193.02	1.45
8663.00	89.10	181.70	7119.23	-1588.33	-348.40	1609.05	1626.09	192.37	2.03
8758.00	89.50	181.60	7120.39	-1683.28	-351.13	1703.96	1719.51	191.78	.43
8853.00	90.40	181.10	7120.48	-1778.25	-353.37	1798.85	1813.02	191.24	1.08
8949.00	90.70	181.20	7119.55	-1874.23	-355.30	1894.72	1907.61	190.73	.33
9045.00	90.90	180.40	7118.21	-1970.21	-356.64	1990.55	2002.23	190.26	.86
9140.00	90.90	180.40	7116.72	-2065.20	-357.30	2085.35	2095.88	189.82	.00
9236.00	91.80	180.40	7114.46	-2161.17	-357.97	2181.12	2190.61	189.40	.94
9330.00	91.20	178.10	7112.00	-2255.12	-356.74	2274.75	2283.16	188.99	2.53
9426.00	91.30	177.40	7109.90	-2351.02	-352.97	2370.14	2377.37	188.54	.74
9520.00	91.50	177.30	7107.61	-2444.89	-348.63	2463.47	2469.62	188.12	.24
9615.00	91.30	178.60	7105.29	-2539.80	-345.23	2557.90	2563.16	187.74	1.38
9711.00	90.20	180.00	7104.03	-2635.78	-344.06	2653.55	2658.14	187.44	1.85
9807.00	91.30	179.20	7102.77	-2731.77	-343.39	2749.25	2753.27	187.16	1.42
9902.00	90.80	179.50	7101.03	-2826.75	-342.31	2843.91	2847.40	186.90	.61
9996.00	89.70	180.90	7100.62	-2920.74	-342.64	2937.69	2940.77	186.69	1.89
10091.00	90.70	180.40	7100.29	-3015.73	-343.72	3032.52	3035.26	186.50	1.18
10186.00	91.00	180.90	7098.88	-3110.72	-344.79	3127.34	3129.77	186.32	.61
10281.00	89.10	179.40	7098.80	-3205.71	-345.04	3222.11	3224.22	186.14	2.55
10377.00	89.70	178.60	7099.80	-3301.69	-343.37	3317.73	3319.49	185.94	1.04
10472.00	90.30	177.80	7099.80	-3396.64	-340.38	3412.23	3413.65	185.72	1.05
10567.00	91.20	176.70	7098.56	-3491.52	-335.83	3506.55	3507.63	185.49	1.50
10662.00	90.80	175.90	7096.90	-3586.31	-329.70	3600.66	3601.43	185.25	.94
10757.00	90.20	178.10	7096.07	-3681.17	-324.72	3694.93	3695.46	185.04	2.40
10853.00	91.00	179.20	7095.07	-3777.13	-322.46	3790.49	3790.87	184.88	1.42
10947.00	88.20	177.90	7095.72	-3871.09	-320.08	3884.04	3884.30	184.73	3.28
11042.00	88.60	177.80	7098.38	-3965.98	-316.52	3978.45	3978.60	184.56	.43
11138.00	90.80	178.20	7098.88	-4061.92	-313.17	4073.90	4073.97	184.41	2.33
11232.00	90.60	179.00	7097.73	-4155.88	-310.88	4167.47	4167.49	184.28	.88
11328.00	90.60	180.00	7096.73	-4251.87	-310.04	4263.15	4263.16	184.17	1.04
11422.00	90.50	181.00	7095.82	-4345.86	-310.86	4356.97	4356.97	184.09	1.07
11518.00	90.80	181.90	7094.73	-4441.83	-313.29	4452.86	4452.86	184.03	.99
11552.00	90.50	182.10	7094.35	-4475.80	-314.47	4486.83	4486.84	184.02	1.06
SL Projection to TD									
11604.00	90.50	182.10	7093.89	-4527.77	-316.38	4538.80	4538.81	184.00	.00