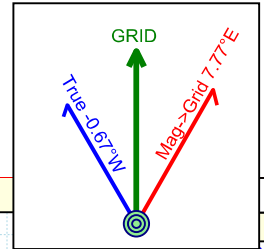




**Job Number:** CVR-5-63-32-3225CDH  
**Company:** Bill Barrett Corporation  
**Lease/Well:** CVR 5-3-32-3225CDH  
**Location:** SEC32-T5N-R63W  
**Rig Name:** Nabors M37  
**State/County:** Colorado/ Weld County  
**Country:** USA  
**API Number:** 0512336897

**Elevation (To MSL):** 0.00 ft  
**RKB:** 0.00 ft  
**Projection System:** US State Plane 1983  
**Projection Group:** Colorado Northern Zone  
**Projection Datum:** GRS80  
**Magnetic Declination:** 8.43  
**Grid Convergence:** 0.66637 E  
**Date:** Saturday, May 25, 2013



True Vertical Depth

South - North

West - East

Vertical Section (100 Ft/Div) VSP: 84.15°



# Survey Report

with Projection

**Service Company:** PDSI

**Location:** Sec 32 - T5N - R63W

**Well:** CVR 5-63-32-3225 CDH

**Rig:** Nabors M-37

**API or UWI:** 05-123-36897 Colorado

**Job Number:** DL1723

**State:** Weld County

**Operating Company:** Bill Barrett Corporation

**County:**

**Magnetic Declination:** 0.00

**Comment:**

**Proposed Azimuth:** 84.15

**North Reference:** GRID

**Tie-In Data:**

MD	Inclination	Azimuth	TVD	NS	EW
750.00	0.41	11.58	749.99	0.91	2.09

**Survey Data:**

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
866.00	0.30	124.30	865.99	1.15	2.42	64.71	2.68	2.53	0.51
959.00	1.00	349.00	958.98	1.80	2.47	53.85	3.06	2.64	1.32
1051.00	1.00	340.50	1050.97	3.35	2.05	31.46	3.93	2.38	0.16
1143.00	0.90	358.10	1142.96	4.83	1.76	20.00	5.14	2.24	0.33
1235.00	1.10	355.80	1234.94	6.43	1.67	14.55	6.64	2.32	0.22
1327.00	1.30	356.90	1326.92	8.35	1.55	10.50	8.50	2.39	0.22
1609.00	0.90	314.90	1608.88	13.11	-0.19	359.15	13.11	1.14	0.31
1893.00	1.00	270.20	1892.84	14.70	-4.25	343.86	15.30	-2.73	0.26
2176.00	1.80	289.70	2175.76	16.20	-10.91	326.05	19.53	-9.20	0.33
2271.00	2.60	331.60	2270.69	18.60	-13.34	324.36	22.89	-11.37	1.83
2366.00	3.60	339.80	2365.55	23.30	-15.39	326.55	27.92	-12.94	1.15
2461.00	4.90	339.70	2460.29	29.90	-17.83	329.19	34.81	-14.69	1.37
2556.00	7.00	336.00	2554.77	38.99	-21.59	331.03	44.57	-17.50	2.25
2650.00	9.10	337.20	2647.84	51.08	-26.80	332.31	57.69	-21.46	2.24
2839.00	7.80	334.60	2834.78	76.45	-38.10	333.51	85.41	-30.11	0.72
3029.00	6.10	327.70	3023.39	96.63	-49.02	333.10	108.35	-38.92	1.00
3217.00	6.30	330.00	3210.29	114.00	-59.52	332.43	128.60	-47.59	0.17
3311.00	8.00	335.80	3303.55	124.44	-64.78	332.50	140.29	-51.76	1.96

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
3406.00	8.60	334.60	3397.56	136.88	-70.53	332.74	153.99	-56.21	0.66
3594.00	8.80	339.00	3583.40	163.01	-81.72	333.38	182.34	-64.68	0.37
3783.00	8.00	334.40	3770.37	188.37	-92.58	333.83	209.89	-72.90	0.55
3971.00	6.80	333.00	3956.80	210.08	-103.29	333.82	234.10	-81.34	0.65
4160.00	7.50	319.60	4144.34	229.45	-116.36	333.11	257.27	-92.37	0.95
4348.00	7.10	323.00	4330.82	248.07	-131.31	332.11	280.68	-105.34	0.31
4537.00	8.70	336.80	4518.04	270.54	-143.97	331.98	306.46	-115.64	1.31
4727.00	7.70	328.80	4706.10	294.64	-156.22	332.07	333.49	-125.38	0.80
4916.00	9.80	344.20	4892.91	320.95	-167.17	332.49	361.87	-133.58	1.66
5106.00	8.60	346.50	5080.47	350.32	-174.88	333.47	391.55	-138.27	0.66
5295.00	5.70	343.90	5267.98	373.09	-180.79	334.15	414.58	-141.82	1.54
5390.00	5.20	341.40	5362.55	381.70	-183.47	334.33	423.50	-143.61	0.58
5484.00	4.70	336.50	5456.20	389.27	-186.36	334.42	431.58	-145.72	0.70
5578.00	4.00	337.40	5549.93	395.83	-189.16	334.46	438.70	-147.83	0.75
5673.00	3.10	335.60	5644.74	401.22	-191.49	334.49	444.58	-149.60	0.95
5768.00	2.20	336.70	5739.64	405.24	-193.28	334.50	448.97	-150.97	0.95
5862.00	1.10	328.60	5833.60	407.67	-194.46	334.50	451.67	-151.90	1.19
5950.00	3.00	86.00	5921.56	408.55	-192.60	334.76	451.67	-149.96	4.14
5980.00	6.00	89.70	5951.46	408.61	-190.25	335.03	450.73	-147.61	10.04
6011.00	8.70	89.00	5982.21	408.66	-186.29	335.49	449.12	-143.66	8.71
6043.00	11.30	88.10	6013.72	408.81	-180.73	336.15	446.98	-138.12	8.14
6074.00	14.20	87.60	6043.95	409.07	-173.90	336.97	444.49	-131.30	9.36
6106.00	17.10	87.60	6074.76	409.43	-165.27	338.02	441.53	-122.68	9.06
6137.00	19.40	88.80	6104.20	409.73	-155.57	339.21	438.27	-113.00	7.52
6168.00	21.20	91.30	6133.27	409.71	-144.82	340.53	434.55	-102.30	6.44
6200.00	23.20	93.00	6162.90	409.25	-132.74	342.03	430.23	-90.33	6.56
6232.00	25.50	92.90	6192.05	408.57	-119.56	343.69	425.70	-77.30	7.19
6263.00	28.20	91.50	6219.71	408.04	-105.57	345.49	421.47	-63.43	8.94
6294.00	31.40	90.20	6246.60	407.82	-90.17	347.53	417.67	-48.13	10.53
6326.00	34.60	87.90	6273.44	408.12	-72.75	349.89	414.56	-30.77	10.74
6357.00	38.00	88.10	6298.42	408.76	-54.41	352.42	412.37	-12.46	10.97
6389.00	42.60	87.90	6322.82	409.49	-33.73	355.29	410.87	8.18	14.38
6420.00	46.40	88.60	6344.93	410.14	-12.02	358.32	410.32	29.85	12.36
6452.00	50.50	89.00	6366.15	410.64	11.92	1.66	410.82	53.71	12.85
6484.00	54.90	87.80	6385.53	411.36	37.36	5.19	413.05	79.09	14.07

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
6550.00	62.40	93.00	6419.86	410.87	93.65	12.84	421.40	135.04	13.20
6581.00	64.50	88.50	6433.72	410.51	121.37	16.47	428.08	162.58	14.64
6612.00	64.90	87.80	6446.97	411.42	149.38	19.96	437.70	190.53	2.42
6642.00	67.00	87.40	6459.20	412.57	176.75	23.19	448.83	217.88	7.11
6673.00	68.70	86.20	6470.89	414.17	205.41	26.38	462.31	246.56	6.55
6704.00	70.50	84.90	6481.69	416.43	234.38	29.37	477.86	275.60	7.01
6734.00	72.80	84.60	6491.14	419.03	262.73	32.09	494.59	304.08	7.73
6765.00	74.70	87.20	6499.81	421.16	292.41	34.77	512.72	333.82	10.12
6796.00	76.40	87.80	6507.55	422.47	322.40	37.35	531.43	363.79	5.80
6826.00	77.60	90.00	6514.30	423.03	351.63	39.73	550.08	392.91	8.19
6857.00	79.60	90.00	6520.42	423.03	382.01	42.08	569.99	423.14	6.45
6888.00	82.00	90.20	6525.38	422.97	412.61	44.29	590.89	453.58	7.77
6919.00	84.20	88.80	6529.10	423.24	443.39	46.33	612.96	484.21	8.39
6949.00	86.20	87.40	6531.61	424.23	473.26	48.13	635.57	514.04	8.13
6980.00	86.40	86.90	6533.61	425.77	504.16	49.82	659.89	544.93	1.73
7011.00	86.30	86.40	6535.59	427.58	535.04	51.37	684.90	575.84	1.64
7042.00	86.10	86.50	6537.64	429.49	565.91	52.80	710.44	606.74	0.72
7072.00	86.30	87.60	6539.63	431.03	595.81	54.12	735.38	636.64	3.72
7103.00	88.30	90.20	6541.09	431.63	626.76	55.45	761.01	667.49	10.57
7133.00	89.30	90.70	6541.72	431.39	656.76	56.70	785.77	697.31	3.73
7164.00	89.70	90.60	6541.99	431.04	687.75	57.92	811.67	728.11	1.33
7196.00	89.30	89.90	6542.27	430.90	719.75	59.09	838.88	759.92	2.52
7259.00	88.80	91.10	6543.31	430.35	782.74	61.20	893.24	822.53	2.06
7291.00	88.00	90.70	6544.21	429.85	814.72	62.18	921.16	854.29	2.79
7354.00	86.00	90.90	6547.50	428.97	877.63	63.95	976.85	916.78	3.19
7386.00	85.90	91.80	6549.76	428.22	909.54	64.79	1005.30	948.45	2.82
7418.00	87.70	90.70	6551.55	427.52	941.48	65.58	1034.00	980.15	6.59
7449.00	89.30	90.90	6552.36	427.09	972.46	66.29	1062.12	1010.93	5.20
7481.00	90.40	89.50	6552.45	426.98	1004.46	66.97	1091.45	1042.75	5.56
7513.00	90.70	89.90	6552.14	427.15	1036.46	67.60	1121.03	1074.60	1.56
7545.00	89.80	89.20	6552.00	427.40	1068.46	68.20	1150.77	1106.46	3.56
7577.00	90.40	88.60	6551.94	428.01	1100.45	68.75	1180.76	1138.35	2.65
7609.00	92.90	89.00	6551.02	428.68	1132.43	69.27	1210.85	1170.22	7.91
7641.00	94.00	88.30	6549.10	429.43	1164.36	69.76	1241.03	1202.07	4.07
7673.00	93.90	88.10	6546.89	430.44	1196.27	70.21	1271.35	1233.91	0.70

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
7704.00	92.20	89.70	6545.24	431.03	1227.22	70.65	1300.71	1264.76	7.53
7736.00	91.50	89.90	6544.21	431.14	1259.20	71.10	1330.97	1296.59	2.27
7768.00	91.10	90.90	6543.48	430.92	1291.19	71.54	1361.20	1328.39	3.36
7800.00	91.50	91.30	6542.76	430.30	1323.18	71.99	1391.39	1360.15	1.77
7832.00	90.90	91.30	6542.09	429.58	1355.16	72.41	1421.62	1391.89	1.88
7864.00	90.50	90.90	6541.70	428.96	1387.15	72.82	1451.97	1423.65	1.77
7895.00	90.30	91.80	6541.48	428.23	1418.14	73.20	1481.39	1454.41	2.97
7927.00	90.00	91.50	6541.40	427.31	1450.13	73.58	1511.78	1486.13	1.33
8023.00	89.30	92.90	6541.98	423.63	1546.06	74.68	1603.04	1581.18	1.63
8118.00	89.50	90.60	6542.98	420.73	1641.00	75.62	1694.07	1675.34	2.43
8214.00	90.70	89.90	6542.81	420.31	1737.00	76.40	1787.12	1770.79	1.45
8310.00	90.00	84.90	6542.22	424.66	1832.86	76.96	1881.42	1866.60	5.26
8405.00	91.70	85.10	6540.81	432.94	1927.49	77.34	1975.51	1961.58	1.80
8501.00	90.80	89.30	6538.72	437.63	2023.33	77.80	2070.12	2057.40	4.47
8596.00	89.20	90.00	6538.72	438.21	2118.32	78.31	2163.17	2151.96	1.84
8692.00	89.00	89.70	6540.23	438.46	2214.31	78.80	2257.30	2247.47	0.38
8788.00	88.50	89.00	6542.32	439.55	2310.28	79.23	2351.72	2343.05	0.90
8883.00	88.60	89.50	6544.72	440.79	2405.24	79.62	2445.30	2437.64	0.54
8979.00	91.40	88.80	6544.72	442.21	2501.22	79.97	2540.01	2533.27	3.01
9073.00	92.40	88.50	6541.61	444.43	2595.14	80.28	2632.92	2626.93	1.11
9168.00	92.10	88.50	6537.88	446.91	2690.04	80.57	2726.91	2721.58	0.32
9264.00	90.40	89.50	6535.78	448.59	2785.99	80.85	2821.88	2817.21	2.05
9360.00	90.40	89.30	6535.11	449.59	2881.99	81.13	2916.84	2912.80	0.21
9456.00	90.50	89.00	6534.36	451.02	2977.97	81.39	3011.93	3008.43	0.33
9551.00	90.80	88.80	6533.28	452.84	3072.95	81.62	3106.14	3103.10	0.38
9648.00	91.90	87.80	6531.00	455.72	3169.88	81.82	3202.47	3199.82	1.53
9743.00	91.20	88.60	6528.43	458.70	3264.79	82.00	3296.86	3294.54	1.12
9839.00	88.50	89.20	6528.68	460.54	3360.77	82.20	3392.17	3390.20	2.88
9934.00	89.30	88.60	6530.50	462.37	3455.73	82.38	3486.52	3484.86	1.05
10030.00	86.90	88.30	6533.68	464.96	3551.64	82.54	3581.94	3580.53	2.52
10125.00	86.70	88.50	6538.99	467.61	3646.45	82.69	3676.31	3675.12	0.30
10222.00	86.90	86.90	6544.40	471.50	3743.22	82.82	3772.80	3771.78	1.66
10317.00	88.00	86.90	6548.63	476.63	3837.98	82.92	3867.47	3866.58	1.16
10413.00	89.50	85.80	6550.72	482.74	3933.76	83.00	3963.27	3962.48	1.94
10508.00	90.40	86.20	6550.81	489.37	4028.53	83.07	4058.14	4057.43	1.04

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
10593.00	91.40	85.10	6549.47	495.81	4113.27	83.13	4143.05	4142.39	1.75

Projection Data:

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
10650.00	91.40	85.10	6548.08	500.68	4170.05	83.15	4200.00	4199.36	0.00