



Bill Barrett Corp.

Garfield County, Colorado [NAD83]

MDP 15 Pad

GGU Swanson 33C-29-691

Wellbore #1

Survey: Surveys

Standard Survey Report

02 March, 2011

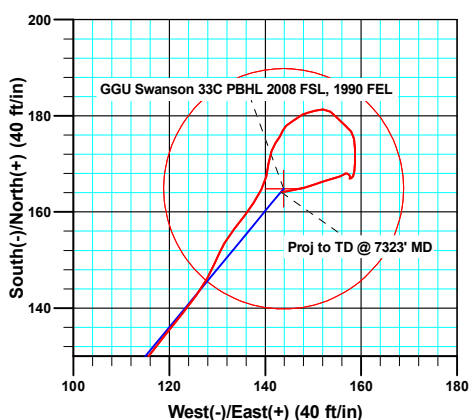
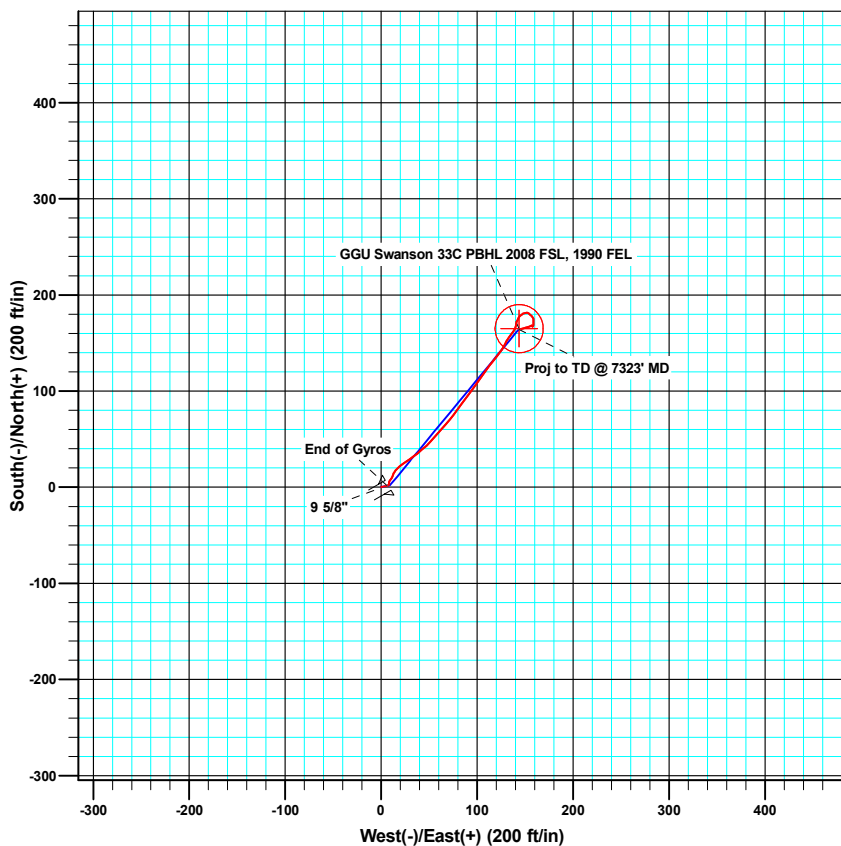
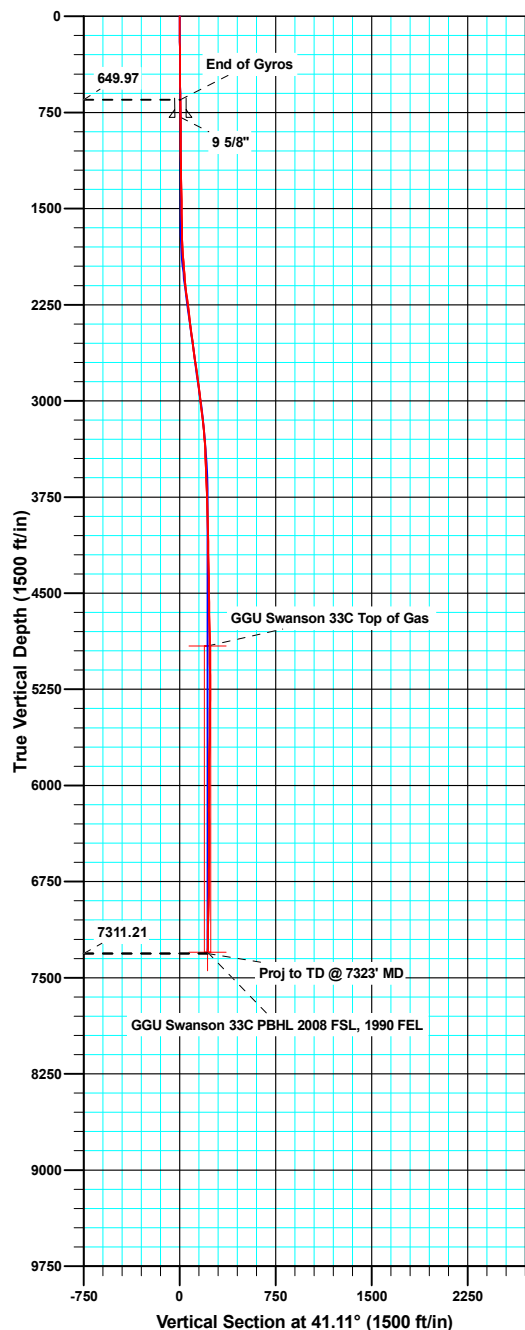




WELL DETAILS: GGU Swanson 33C-29-691

Ground Level: 6030.20

North American Datum 1983			US State Plane 1983			Colorado Central Zone	
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude		
0.00	0.00	1612496.26	2414213.74	39° 29' 48.13 N	107° 34' 33.54 W		



Azimuths to True North
Magnetic North: 10.23°

Magnetic Field
Strength: 52411.5snT
Dip Angle: 65.85°
Date: 09/10/2010
Model: IGRF200510

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
7311.21	7323.00	1.800	258.70	164.08	143.43	217.93	270.81	Proj to TD @ 7323' MD

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well GGU Swanson 33C-29-691
Project:	Garfield County, Colorado [NAD83]	TVD Reference:	KB @ 6053.20ft
Site:	MDP 15 Pad	MD Reference:	KB @ 6053.20ft
Well:	GGU Swanson 33C-29-691	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass VM

Project	Garfield County, Colorado [NAD83]		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site		MDP 15 Pad			
Site Position:		Northing:	1,612,474.12 usft	Latitude:	39° 29' 47.92 N
From:	Lat/Long	Easting:	2,414,257.84 usft	Longitude:	107° 34' 32.97 W
Position Uncertainty:	0.00 ft	Slot Radius:	1.10 ft	Grid Convergence:	-1.31 °

Well	GGU Swanson 33C-29-691					
Well Position	+N/-S	0.00 ft	Northing:	1,612,496.25 usft	Latitude:	39° 29' 48.13 N
	+E/-W	0.00 ft	Easting:	2,414,213.74 usft	Longitude:	107° 34' 33.54 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,030.20 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	09/10/10	10.24	65.85	52,411

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	41.11	

Survey Program	Date	03/02/11			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
50.00	650.00	Gyro Surveys (Wellbore #1)	MWD	MWD - Standard	
877.00	7,323.00	Surveys (Wellbore #1)	MWD	MWD - Standard	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
650.00	0.660	77.41	649.97	1.36	6.24	5.12	0.00	0.00	0.00	
789.90	0.475	59.56	789.86	1.83	7.52	6.32	0.18	-0.13	-12.76	
9 5/8"										
877.00	0.400	41.20	876.96	2.24	8.03	6.97	0.18	-0.09	-21.08	
969.00	0.400	4.80	968.96	2.80	8.27	7.55	0.27	0.00	-39.57	
1,064.00	0.900	2.10	1,063.95	3.88	8.33	8.40	0.53	0.53	-2.84	
1,159.00	0.800	349.80	1,158.94	5.27	8.24	9.39	0.22	-0.11	-12.95	
1,254.00	1.200	44.60	1,253.93	6.64	8.82	10.80	1.04	0.42	57.68	
1,349.00	1.000	33.10	1,348.91	8.04	9.97	12.61	0.31	-0.21	-12.11	
1,444.00	0.900	28.40	1,443.90	9.39	10.78	14.16	0.13	-0.11	-4.95	

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well GGU Swanson 33C-29-691
Project:	Garfield County, Colorado [NAD83]	TVD Reference:	KB @ 6053.20ft
Site:	MDP 15 Pad	MD Reference:	KB @ 6053.20ft
Well:	GGU Swanson 33C-29-691	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass VM

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
1,539.00	1.100	32.80	1,538.88	10.81	11.63	15.79	0.23	0.21	4.63	
1,634.00	0.900	11.60	1,633.87	12.31	12.27	17.34	0.44	-0.21	-22.32	
1,730.00	1.700	26.80	1,729.84	14.32	13.06	19.38	0.90	0.83	15.83	
1,825.00	2.800	36.90	1,824.77	17.43	15.09	23.06	1.23	1.16	10.63	
1,920.00	4.000	49.40	1,919.60	21.44	19.00	28.65	1.48	1.26	13.16	
2,015.00	5.400	57.30	2,014.28	26.02	25.28	36.22	1.62	1.47	8.32	
2,110.00	6.500	52.60	2,108.77	31.70	33.31	45.79	1.27	1.16	-4.95	
2,205.00	7.600	51.50	2,203.05	38.87	42.50	57.23	1.17	1.16	-1.16	
2,300.00	7.700	41.20	2,297.21	47.57	51.61	69.78	1.45	0.11	-10.84	
2,395.00	7.100	42.10	2,391.41	56.72	59.74	82.01	0.64	-0.63	0.95	
2,490.00	6.900	42.00	2,485.71	65.32	67.49	93.59	0.21	-0.21	-0.11	
2,585.00	8.400	36.00	2,579.86	75.17	75.39	106.21	1.79	1.58	-6.32	
2,680.00	8.100	37.00	2,673.88	86.13	83.50	119.79	0.35	-0.32	1.05	
2,775.00	7.600	37.50	2,767.98	96.46	91.35	132.74	0.53	-0.53	0.53	
2,871.00	7.700	34.10	2,863.13	106.82	98.82	145.46	0.48	0.10	-3.54	
2,966.00	7.400	36.60	2,957.31	117.00	106.03	157.87	0.47	-0.32	2.63	
3,060.00	6.600	35.70	3,050.61	126.25	112.80	169.29	0.86	-0.85	-0.96	
3,156.00	6.600	40.10	3,145.97	134.95	119.57	180.30	0.53	0.00	4.58	
3,251.00	5.300	35.70	3,240.46	142.69	125.65	190.12	1.45	-1.37	-4.63	
3,346.00	3.700	22.40	3,335.16	149.09	129.38	197.39	2.00	-1.68	-14.00	
3,441.00	2.300	31.50	3,430.03	153.55	131.54	202.18	1.55	-1.47	9.58	
3,536.00	2.100	37.30	3,524.96	156.56	133.59	205.79	0.31	-0.21	6.11	
3,632.00	2.000	39.10	3,620.90	159.26	135.71	209.22	0.12	-0.10	1.88	
3,727.00	1.900	30.80	3,715.85	161.89	137.56	212.43	0.32	-0.11	-8.74	
3,822.00	1.900	30.50	3,810.79	164.60	139.17	215.53	0.01	0.00	-0.32	
3,917.00	1.800	10.10	3,905.74	167.43	140.23	218.35	0.70	-0.11	-21.47	
4,012.00	1.600	10.60	4,000.70	170.20	140.74	220.77	0.21	-0.21	0.53	
4,107.00	1.400	17.30	4,095.67	172.61	141.33	222.98	0.28	-0.21	7.05	
4,202.00	0.900	38.80	4,190.65	174.30	142.14	224.79	0.69	-0.53	22.63	
4,297.00	1.100	26.70	4,285.64	175.70	143.02	226.42	0.31	0.21	-12.74	
4,392.00	0.700	29.40	4,380.63	177.02	143.71	227.87	0.42	-0.42	2.84	
4,487.00	0.700	43.00	4,475.62	177.95	144.39	229.01	0.17	0.00	14.32	
4,582.00	1.100	60.90	4,570.61	178.82	145.58	230.45	0.51	0.42	18.84	
4,677.00	0.700	51.40	4,665.59	179.62	146.83	231.88	0.45	-0.42	-10.00	
4,773.00	0.700	64.60	4,761.59	180.24	147.82	233.00	0.17	0.00	13.75	
4,868.00	0.800	71.40	4,856.58	180.70	148.98	234.10	0.14	0.11	7.16	
4,963.00	1.000	77.70	4,951.57	181.09	150.41	235.34	0.23	0.21	6.63	
5,058.00	1.000	84.60	5,046.55	181.34	152.05	236.61	0.13	0.00	7.26	
5,153.00	1.100	127.40	5,141.54	180.87	153.60	237.27	0.81	0.11	45.05	
5,248.00	1.200	135.30	5,236.52	179.61	155.02	237.25	0.20	0.11	8.32	
5,343.00	1.300	131.00	5,331.50	178.19	156.54	237.18	0.14	0.11	-4.53	
5,438.00	1.100	143.30	5,426.48	176.76	157.89	236.99	0.34	-0.21	12.95	
5,533.00	1.000	172.50	5,521.46	175.20	158.55	236.25	0.57	-0.11	30.74	

Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well GGU Swanson 33C-29-691
Project:	Garfield County, Colorado [NAD83]	TVD Reference:	KB @ 6053.20ft
Site:	MDP 15 Pad	MD Reference:	KB @ 6053.20ft
Well:	GGU Swanson 33C-29-691	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass VM

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
5,628.00	1.600	178.80	5,616.44	173.05	158.68	234.72	0.65	0.63	6.63	
5,723.00	1.700	179.90	5,711.40	170.32	158.71	232.68	0.11	0.11	1.16	
5,818.00	0.500	194.60	5,806.38	168.51	158.61	231.25	1.29	-1.26	15.47	
5,913.00	0.200	198.80	5,901.38	167.95	158.45	230.73	0.32	-0.32	4.42	
6,008.00	0.400	190.40	5,996.37	167.47	158.34	230.29	0.21	0.21	-8.84	
6,103.00	0.400	255.50	6,091.37	167.06	157.96	229.73	0.45	0.00	68.53	
6,199.00	0.000	34.10	6,187.37	166.97	157.63	229.45	0.42	-0.42	0.00	
6,294.00	0.200	17.10	6,282.37	167.13	157.68	229.60	0.21	0.21	0.00	
6,389.00	0.400	340.50	6,377.37	167.60	157.62	229.92	0.28	0.21	-38.53	
6,484.00	0.400	282.00	6,472.37	167.99	157.19	229.92	0.41	0.00	-61.58	
6,579.00	0.200	263.20	6,567.37	168.04	156.70	229.64	0.23	-0.21	-19.79	
6,674.00	0.400	225.80	6,662.37	167.78	156.30	229.18	0.28	0.21	-39.37	
6,769.00	0.500	252.00	6,757.36	167.42	155.66	228.50	0.24	0.11	27.58	
6,864.00	1.500	252.40	6,852.35	166.92	154.08	227.08	1.05	1.05	0.42	
6,960.00	1.200	255.50	6,948.32	166.29	151.91	225.17	0.32	-0.31	3.23	
7,055.00	1.000	244.50	7,043.30	165.68	150.20	223.59	0.31	-0.21	-11.58	
7,150.00	1.400	258.90	7,138.28	165.10	148.31	221.91	0.52	0.42	15.16	
7,245.00	1.700	257.30	7,233.25	164.57	145.80	219.86	0.32	0.32	-1.68	
7,278.00	1.800	258.70	7,266.23	164.36	144.82	219.05	0.33	0.30	4.24	
7,323.00	1.800	258.70	7,311.21	164.08	143.43	217.93	0.00	0.00	0.00	

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name		Casing Diameter (ft)	Hole Diameter (ft)
789.90	789.86	9 5/8"		0.80	1.02

Survey Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
7,323.00	7,311.21	164.08	143.43	Proj to TD @ 7323' MD	

Checked By: _____ Approved By: _____ Date: _____