



Bill Barrett Corporation

Bill Barrett Corp.

Garfield County, Colorado

MDP 11 Pad

GGU Swanson 32C-29-691

Wellbore #1

Survey: Surveys

Standard Survey Report

21 February, 2011

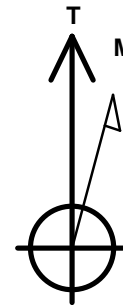
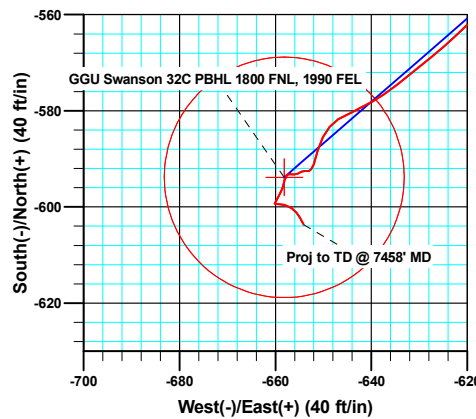
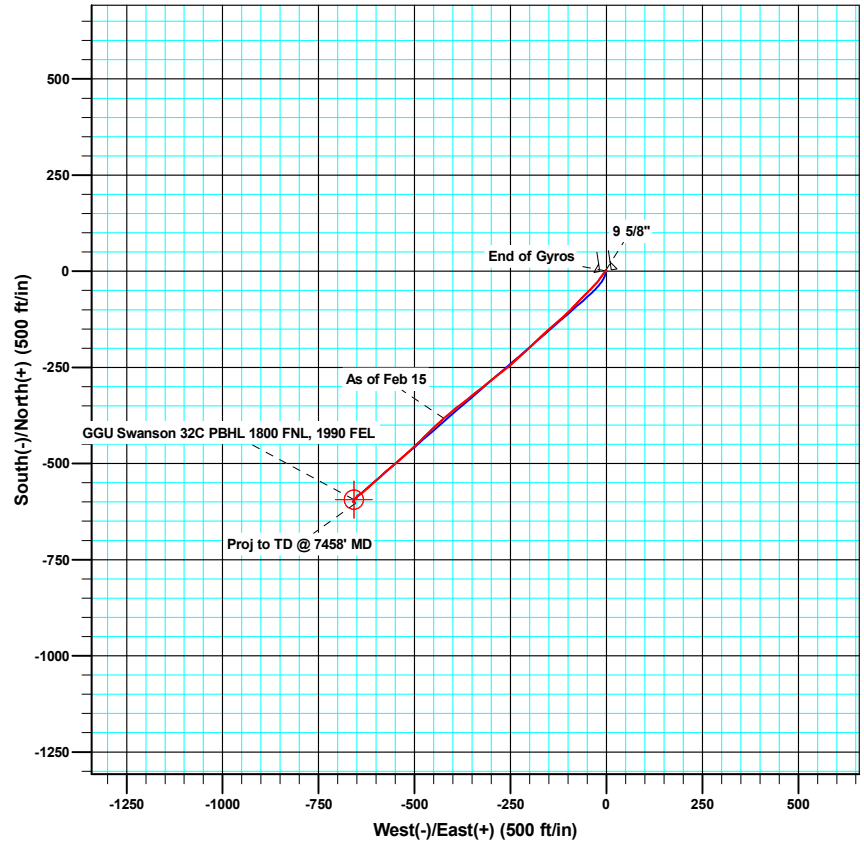
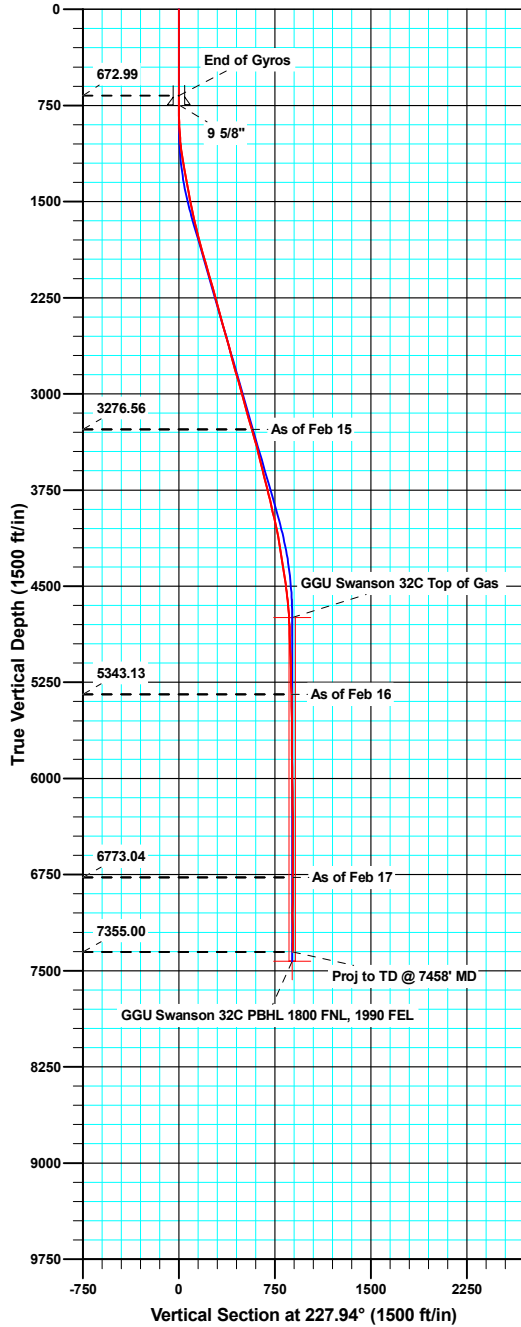




WELL DETAILS: GGU Swanson 32C-29-691

Ground Level: 6103.90

North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
 +N/-S +E/-W Northing Easting Latitude Longitude
 0.00 0.00 1614697.60 2415041.92 39° 30' 10.07 N 107° 34' 23.61 W
 MDP 11 Pad



Azimuths to True North
 Magnetic North: 10.20°

Magnetic Field
 Strength: 52387.1snT
 Dip Angle: 65.85°
 Date: 12/21/2010
 Model: IGRF200510

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
3276.56	3348.00	15.900	229.40	-382.62	-423.20	570.53	571.75	As of Feb 15
5343.13	5446.00	1.800	202.30	-591.14	-652.03	880.10	882.81	As of Feb 16
6773.04	6876.00	0.500	83.50	-599.42	-659.18	890.96	897.37	As of Feb 17
7355.00	7458.00	0.600	149.70	-603.65	-654.04	889.98	904.47	Proj to TD @ 7458' MD



Company:	Bill Barrett Corp.	Local Co-ordinate Reference:	Well GGU Swanson 32C-29-691
Project:	Garfield County, Colorado	TVD Reference:	KB @ 6126.90ft
Site:	MDP 11 Pad	MD Reference:	KB @ 6126.90ft
Well:	GGU Swanson 32C-29-691	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass VM

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

Site	MDP 11 Pad				
Site Position:		Northing:	1,614,688.12 usft	Latitude:	39° 30' 9.99 N
From:	Lat/Long	Easting:	2,415,090.26 usft	Longitude:	107° 34' 22.99 W
Position Uncertainty:	0.00 ft	Slot Radius:	1.10 ft	Grid Convergence:	-1.31 °

Well	GGU Swanson 32C-29-691					
Well Position	+N/-S	0.00 ft	Northing:	1,614,697.59 usft	Latitude:	39° 30' 10.07 N
	+E/-W	0.00 ft	Easting:	2,415,041.93 usft	Longitude:	107° 34' 23.61 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,103.90 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/21/10	10.20	65.85	52,387

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	227.94	

Survey Program	Date	02/21/11			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
50.00	673.00	Gyro Surveys (Wellbore #1)	MWD	MWD - Standard	
789.00	7,458.00	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)	
673.00	0.260	28.69	672.99	1.27	-2.32	0.87	0.00	0.00	0.00	
746.30	0.036	171.37	746.29	1.40	-2.24	0.73	0.40	-0.31	194.65	
9 5/8"										
789.00	0.200	198.70	788.99	1.31	-2.26	0.80	0.40	0.38	64.01	
882.00	1.800	221.00	881.97	0.06	-3.27	2.39	1.74	1.72	23.98	
974.00	3.900	213.90	973.86	-3.63	-5.97	6.86	2.31	2.28	-7.72	
1,066.00	6.700	218.10	1,065.45	-10.45	-11.02	15.19	3.07	3.04	4.57	
1,158.00	8.700	213.50	1,156.62	-20.48	-18.18	27.22	2.27	2.17	-5.00	
1,250.00	10.500	222.00	1,247.33	-32.51	-27.63	42.29	2.49	1.96	9.24	
1,346.00	10.700	224.20	1,341.69	-45.40	-39.69	59.89	0.47	0.21	2.29	

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Well:	GGU Swanson 32C-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)	
1,441.00	10.700	224.90	1,435.04	-57.97	-52.07	77.49	0.14	0.00	0.74	
1,536.00	12.200	224.90	1,528.15	-71.33	-65.38	96.33	1.58	1.58	0.00	
1,632.00	12.000	223.50	1,622.02	-85.76	-79.41	116.41	0.37	-0.21	-1.46	
1,727.00	13.900	225.10	1,714.60	-100.98	-94.29	137.65	2.04	2.00	1.68	
1,822.00	15.400	228.30	1,806.51	-117.42	-111.79	161.66	1.79	1.58	3.37	
1,918.00	15.600	229.30	1,899.02	-134.32	-131.10	187.31	0.35	0.21	1.04	
2,013.00	15.500	227.60	1,990.54	-151.21	-150.15	212.78	0.49	-0.11	-1.79	
2,108.00	15.600	226.80	2,082.06	-168.51	-168.84	238.24	0.25	0.11	-0.84	
2,204.00	16.200	225.70	2,174.39	-186.70	-187.83	264.53	0.70	0.63	-1.15	
2,299.00	15.600	229.00	2,265.76	-204.34	-206.96	290.54	1.14	-0.63	3.47	
2,395.00	15.600	228.00	2,358.22	-221.44	-226.29	316.36	0.28	0.00	-1.04	
2,490.00	15.500	226.40	2,449.74	-238.74	-244.98	341.82	0.46	-0.11	-1.68	
2,585.00	15.300	232.30	2,541.34	-255.16	-264.09	367.01	1.66	-0.21	6.21	
2,680.00	15.100	231.20	2,633.01	-270.58	-283.65	391.86	0.37	-0.21	-1.16	
2,776.00	14.500	232.20	2,725.83	-285.78	-302.89	416.33	0.68	-0.63	1.04	
2,871.00	16.300	231.90	2,817.41	-301.30	-322.78	441.49	1.90	1.89	-0.32	
2,967.00	15.900	231.20	2,909.65	-317.85	-343.63	468.06	0.46	-0.42	-0.73	
3,062.00	14.900	230.80	3,001.24	-333.73	-363.24	493.25	1.06	-1.05	-0.42	
3,157.00	15.400	232.70	3,092.94	-349.09	-382.74	518.02	0.74	0.53	2.00	
3,253.00	16.300	229.70	3,185.29	-365.53	-403.15	544.19	1.27	0.94	-3.13	
3,348.00	15.900	229.40	3,276.56	-382.62	-423.20	570.53	0.43	-0.42	-0.32	
3,443.00	15.800	228.30	3,367.95	-399.69	-442.74	596.47	0.33	-0.11	-1.16	
3,539.00	13.900	226.10	3,460.74	-416.38	-460.81	621.06	2.06	-1.98	-2.29	
3,634.00	13.400	224.00	3,553.06	-432.22	-476.68	643.45	0.74	-0.53	-2.21	
3,729.00	14.500	226.30	3,645.25	-448.35	-492.92	666.32	1.30	1.16	2.42	
3,825.00	14.400	227.30	3,738.22	-464.75	-510.38	690.27	0.28	-0.10	1.04	
3,920.00	13.200	228.10	3,830.47	-480.01	-527.14	712.93	1.28	-1.26	0.84	
4,015.00	13.500	230.30	3,922.91	-494.33	-543.74	734.86	0.62	0.32	2.32	
4,110.00	11.800	229.60	4,015.60	-507.71	-559.67	755.65	1.80	-1.79	-0.74	
4,206.00	10.400	228.80	4,109.80	-519.78	-573.67	774.12	1.47	-1.46	-0.83	
4,301.00	9.400	225.10	4,203.38	-530.91	-585.62	790.45	1.25	-1.05	-3.89	
4,397.00	9.100	230.50	4,298.14	-541.27	-597.03	805.86	0.96	-0.31	5.63	
4,492.00	8.500	227.60	4,392.02	-550.78	-608.01	820.39	0.79	-0.63	-3.05	
4,587.00	8.800	225.60	4,485.94	-560.60	-618.39	834.67	0.45	0.32	-2.11	
4,683.00	6.400	231.10	4,581.09	-569.10	-627.80	847.35	2.61	-2.50	5.73	
4,778.00	4.300	231.60	4,675.67	-574.64	-634.71	856.19	2.21	-2.21	0.53	
4,873.00	3.300	241.60	4,770.46	-578.15	-639.91	862.40	1.26	-1.05	10.53	
4,969.00	2.300	244.80	4,866.34	-580.29	-644.08	866.93	1.05	-1.04	3.33	
5,064.00	1.500	240.10	4,961.29	-581.72	-646.88	869.97	0.86	-0.84	-4.95	
5,160.00	1.400	216.50	5,057.26	-583.29	-648.67	872.35	0.63	-0.10	-24.58	
5,255.00	1.700	210.40	5,152.23	-585.43	-650.08	874.83	0.36	0.32	-6.42	
5,350.00	1.900	192.20	5,247.18	-588.19	-651.12	877.45	0.63	0.21	-19.16	
5,446.00	1.800	202.30	5,343.13	-591.14	-652.03	880.10	0.35	-0.10	10.52	

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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)	
5,541.00	0.500	270.10	5,438.11	-592.52	-653.01	881.76	1.76	-1.37	71.37	
5,636.00	0.500	273.80	5,533.11	-592.49	-653.84	882.35	0.03	0.00	3.89	
5,731.00	0.400	242.00	5,628.11	-592.62	-654.54	882.96	0.28	-0.11	-33.47	
5,827.00	0.600	242.70	5,724.10	-593.01	-655.29	883.77	0.21	0.21	0.73	
5,922.00	0.500	264.80	5,819.10	-593.27	-656.14	884.59	0.24	-0.11	23.26	
6,018.00	0.500	286.90	5,915.09	-593.19	-656.96	885.14	0.20	0.00	23.02	
6,113.00	0.400	225.40	6,010.09	-593.30	-657.59	885.68	0.49	-0.11	-64.74	
6,208.00	1.100	195.40	6,105.08	-594.41	-658.07	886.78	0.82	0.74	-31.58	
6,304.00	1.100	197.10	6,201.07	-596.18	-658.59	888.35	0.03	0.00	1.77	
6,399.00	0.600	214.60	6,296.06	-597.46	-659.14	889.62	0.59	-0.53	18.42	
6,494.00	0.400	210.00	6,391.05	-598.16	-659.59	890.42	0.21	-0.21	-4.84	
6,590.00	0.500	201.50	6,487.05	-598.84	-659.91	891.11	0.12	0.10	-8.85	
6,685.00	0.100	256.90	6,582.05	-599.24	-660.14	891.55	0.47	-0.42	58.32	
6,781.00	0.400	108.10	6,678.05	-599.37	-659.90	891.46	0.51	0.31	-155.00	
6,876.00	0.500	83.50	6,773.04	-599.42	-659.18	890.96	0.23	0.11	-25.89	
6,971.00	0.900	104.30	6,868.04	-599.56	-658.04	890.21	0.49	0.42	21.89	
7,067.00	1.000	123.80	6,964.02	-600.21	-656.61	889.59	0.35	0.10	20.31	
7,162.00	0.700	146.30	7,059.01	-601.16	-655.60	889.47	0.47	-0.32	23.68	
7,258.00	0.400	143.40	7,155.01	-601.91	-655.08	889.59	0.31	-0.31	-3.02	
7,300.00	0.600	149.70	7,197.01	-602.22	-654.88	889.64	0.49	0.48	15.00	
7,458.00	0.600	149.70	7,355.00	-603.65	-654.04	889.98	0.00	0.00	0.00	

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (ft)	Hole Diameter (ft)	
746.30	746.29	9 5/8"	0.80	1.02	

Survey Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
3,348.00	3,276.56	-382.62	-423.20	As of Feb 15	
5,446.00	5,343.13	-591.14	-652.03	As of Feb 16	
6,876.00	6,773.04	-599.42	-659.18	As of Feb 17	
7,458.00	7,355.00	-603.65	-654.04	Proj to TD @ 7458' MD	

Checked By: _____ Approved By: _____ Date: _____