

## DRILLING PROGRAM

BILL BARRETT CORPORATION

GGU Federal 31C-29-691

NWNE, 1200' FNL, 1367' FEL, Sec. 29, T6S-R91W (surface hole)

NWNE, 492' FNL, 1990' FEL, Sec. 29, T6S-R91W (bottom hole)

Garfield County, Colorado

**1 – 2. Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals**

<u>Formation</u>	<u>Depth – MD</u>	<u>Depth – TVD</u>
Mesaverde*	3605'	3512'
Price Coal	4430'	4307'
Top of Gas	4853'	4727'
Rollins*	7213'	7087'
TD	7513'	7387'

**PROSPECTIVE PAY**

\*Members of the Williams Fork & Iles formations are primary objectives for oil/gas.

**3. BOP and Pressure Containment Data**

<u>Depth Intervals</u>	<u>BOP Equipment</u>
0 – 739'	No pressure control required
739' – TD	11" 3000# Ram Type BOP 11" 3000# Annular BOP
<ul style="list-style-type: none"> <li>- Drilling spool to accommodate choke and kill lines;</li> <li>- Ancillary equipment and choke manifold rated at 3,000#. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;</li> <li>- The BLM and the Colorado Oil and Gas Conservation Commission will be notified 24 hours in advance of all BOP pressure tests.</li> <li>- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up to operate most efficiently in this manner.</li> </ul>	

**4. Casing Program**

<u>Hole Size</u>	<u>SETTING DEPTH</u>		<u>Casing Size</u>	<u>Casing Weight</u>	<u>Casing Grade</u>	<u>Thread</u>	<u>Condition</u>
	<u>(FROM)</u>	<u>(TO)</u>					
12 ¼"	surface	739'	9 5/8"	36#	J or K 55	ST&C	New
7 7/8" & 8 3/4"	surface	7513'	4 ½"	11.6# 11.6#	P-110 or N-80	LT&C LT&C	New New
Note: BBC will use one of two options of production casing noted above. 7 7/8" hole size will begin at the point the bit is changed (approximately 5250').							

**5. Cementing Program**

9 5/8" Surface Casing	Lead with approximately 120 sx Versacem Cement System with additives mixed at 12.3 ppg (yield = 2.35 ft <sup>3</sup> /sx) and tail with approximately 120 sx Swiftcem Cement System with additives mixed at 14.2 ppg (yield = 1.39 ft <sup>3</sup> /sx), circulated to surface with 75% excess
4 1/2" Production Casing	Cement with approximately 895 sx Halcem Cement System with additives mixed at 13.1 ppg (yield = 1.51 ft <sup>3</sup> /sx), circulated to surface with 15% excess
Note: Actual volumes to be calculated from caliper log.	

**6. Mud Program**

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss (API filtrate)</u>	<u>Remarks</u>
0 – 40'	8.4 – 9.3	29 – 48	--	Native Spud Mud
40' – 739'	8.4 – 9.3	29 – 48	12 ml or less	Freshwater drilling fluid system
739' – TD	9.2 – 9.9	36 – 56	8 ml or less	LSND/DAP
Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite.				

**7. Testing, Logging and Core Programs**

Cores	None anticipated;
Testing	None anticipated;
Surveys	Run every 1000' and on trips, full directional surveys
Logging	DIL-GR-SP, FDC-CNL-GR-CAL-Pe-Microlog, all TD to surface.

**8. Anticipated Abnormal Pressures or Temperatures**

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 3803 psi\* and maximum anticipated surface pressure equals approximately 2178 psi\*\* (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

\*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

\*\*Maximum surface pressure = A – (0.22 x TD)

**9. Auxiliary Equipment**

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
- b) Inside BOP or stab-in valve (available on rig floor)
- c) Safety valve(s) and subs to fit all string connections in use
- d) Mud monitoring will be visually observed

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**10. Drilling Schedule**

Location Construction: November 1, 2010  
Spud: November 15, 2010  
Duration: 7 to 12 days drilling time  
7 to 10 days completion time (each well)  
(note: completion activities would not necessarily begin immediately upon the completion of drilling operations)

