

PURE GOLD C 17 FEDERAL #15

DRILLING PLAN

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4. Casing Program

<u>INTERVALS</u>	<u>LENGTH</u>	<u>CASING</u>
<u>Surface</u> 0 - 600'	600' 760'	13 3/8" 48# H-40 STC
<u>Intermediate</u> 0 - 4130'	4130'	8 5/8" 32# J-55 STC
<u>Production</u> 0 - 8,200'	8,200'	5 1/2" 15.5# & 17# J-55 LTC

Cementing Program

<u>HOLE SIZE</u>	<u>DEPTH</u>	<u>CEMENT</u>	<u>TOC</u>	<u>WOC HRS</u>
<u>Surface</u> 13 3/8"	600' 760'	Lead: 800 sxs Class C + 2% CaCl ₂	Surf.	12
<u>Intermediate</u> 8 5/8"	4100'	Lead: 1250 sxs C-lite + 2% + 1/4#/sx celloflk (12.7#/gal) Tail: 500 sxs Class C neat + 2% CaCl ₂ + 1/4#/sx celloflk (14.8#/gal)	Surf.	12
<u>Production</u> 5 1/2"	8,200'	Lead: 475 sx Class H w/3% Tail 400 sx Class C neat	3900'	24

The cement volumes for the 5 1/2" casing will be revised pending the caliper measurement from the open hole logs.

5. Minimum Specifications for Pressure Control

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a (3M system) double ram type (3000 psi WP) preventer and a bag-type (Hydril) preventer (3000 psi WP). Both units will be hydraulically operated and the ram type preventer will be equipped with blind rams on top and 5 1/2" drill pipe rams on bottom. Both BOP's will be installed on the 8 5/8" surface casing and utilized continuously until total depth is reached. As per BLM Drilling Operations Order #2, prior to drilling out the 8 5/8" casing shoe, the BOP's and Hydril will be function tested.

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Pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These functional tests will be documented on the daily drillers log. A 2" kill line and 3" choke line will be incorporated in the drilling spool below the ram-type BOP. Other accessory BOP equipment will include a kelly cock, floor safety valve, choke lines and choke manifold having 3000 psi WP rating.

6. Types and Characteristics of the Proposed Mud System

The well will be drilled to total depth brine with starch mud systems. Depths of systems are as follows.

<u>Depth</u>	<u>Type</u>	<u>Weight (ppg)</u>	<u>Viscosity (1/sec)</u>	<u>Water Loss (cc)</u>
0' – 600'	Fresh Water	8.5	40	No control
600' – 4100'	Brine	10.0	28	No control
4100' – 8200'	Cut Brine	8.5/ 8.9	30-32	No control

The necessary mud products for weight addition and fluid loss control will be on location at all times.

7. Auxiliary Well Control and Monitoring Equipment

- A. A kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.

8. Logging, Testing and Coring Program

- A. Drill stem tests may be run on potential pay interval.
- B. The open hole electrical logging program will be as follows.
 - 1) DLL/MSFL/GR from total depth to base of intermediate casing.