

## DRILLING PROGRAM

C. E. LAMUNYON #51, 52, 53  
Arch Petroleum Inc.  
Sections 21 and 22, T23S, R37E  
Lea Co., New Mexico

1. Geologic Name of Surface Formation: Quaternary

2. Estimated Tops of Geologic Markers:

Rustler 1,030'	Queen 3,260'	Glorieta 4,960'
Top Salt 1,150'	Penrose 3,350'	T/Blinbry 5,220'
Base Salt 2,350'	Grayburg 3,525'	B/Blinbry 5,850'
Yates 2,490'	San Andres 3,780'	Tubb 5,950'

3. Estimated Depths of Anticipated Fresh Water, Oil or Gas:

Fresh Water 300'-500'  
Glorieta 4,960'-5,220'  
Blinbry 5,220'-5,850'

4. Casing Program:

<u>Casing</u>	<u>Hole Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Setting Depth</u>
Surface	8 5/8"	24#	K-55	1,150'
Production	5 1/2"	15.5#	J-55	6,000'

Cement Program:

- (a) Surface casing will be 8-5/8" set at 1150' and cemented with 675 sacks of Class 'C' with 2% CaCl<sub>2</sub>.
- (b) Production casing will be 5-1/2" set at approximately 6,000' and cemented in two stages with a DV tool at 3,200'. First stage will be Class 'C' with 16% gel, 2% salt, and 0.2% CLS followed by Class 'C' with 0.5% CFR-2. Second stage will be Class 'C' with 16% gel followed by Class 'C' neat. Volumes to be determined by caliper log to circulate cement to surface.

5. Pressure Control Equipment:

The minimum specifications for pressure control equipment can be seen on the attached Exhibit 1 for a blowout preventer hook-up for 3,000 psi working pressure.

