

ATES PETROLEUM CORPORATION
 Logan "ASO" Federal Com #1
 1650' FSL and 1980' FEL
 Section 15,-T17S-R27E
 Eddy County, New Mexico

1. The estimated tops of geologic markers are as follows:

San Andres	1560'	Morrow Clastics	9190'
Yeso	3113'	Lower Morrow	9251'
Abo	5026'	Chester Lime	9453'
Wolfcamp Lime	6147'	TD	9600'
Strawn	8521'		
Atoka	8940'		

2. The estimated depths at which anticipated water, oil or gas formations are expected to be encountered:

Water: 150'-200'
 Oil or Gas: All potential zones.

3. Pressure Control Equipment: BOPE will be installed on the 8 5/8" casing and rated for 3000 BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout Preventor controls will be installed prior to drilling the surface plug and will remain in use until the well is completed or abandoned. Preventors will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. See Exhibit B.

Auxiliary Equipment:

- A. Auxiliary Equipment: Kelly cock, pit level indicators, flow sensor equipment and a sub with full opening valve to fit the drill pipe and collars will be available on the rig floor in the open position at all times for use when kelly is not in use.

4. THE PROPOSED CASING AND CEMENTING PROGRAM:

- A. Casing Program: (All New)

<u>Hole Size</u>	<u>Casing Size</u>	<u>Wt./Ft</u>	<u>Grade</u>	<u>Coupling</u>	<u>Interval</u>
17 1/2"	13 3/8"	48#	H-40	ST&C	0-400'
11"	8 5/8"	24#	J-55	ST&C	0-1600'
7 7/8"	5 1/2"	17#	L-80	LT&C	0-600'
7 7/8"	5 1/2"	17#	J-55	LT&C	600'-1600'
7 7/8"	5 1/2"	15.5#	J-55	LT&C	1600'-6500'
7 7/8"	5 1/2"	17#	J-55	LT&C	6500'-8200'
7 7/8"	5 1/2"	17#	N-80	LT&C	8200'-9600'

Minimum Casing Design Factors: Collapse 1.125, Burst 1.0, Tensile Strength 1.8