

RECEIVED

YATES PETROLEUM CORPORATION

Adeline "ALN" Federal #2

660' FNL and 760' FEL

Section 6-T24S-R31E

Eddy County, New Mexico

SEP 23 11 23 AM '92

OAL
ARL

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

Rustler	477'
Top of Salt	863'
Bottom of Salt	3,932'
Bell Canyon	4,150'
Cherry Canyon	5,129'
Brushy Canyon	6,810'
Bone Spring	8,010'
TD	8,200'

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

Water: 150'

Oil or Gas: Canyon 5129' and Bone Springs 8100'

Brushy

539

3. Pressure Control Equipment: BOPE will be installed on the 13 3/8" 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 preventer 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.

4. Auxiliary Equipment and Proposed Casing Program:

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.

B. Casing and Cementing Program:

Hole Size: 17 1/2"

Setting Depth: 500'

Total Depth: 500'

Mud Weight: 8.8 ppg

Casing Size: 13 3/8"

Casing Design:

<u>O.D.</u>	<u>Weight</u>	<u>Grade</u>	<u>Thread</u>	<u>Coupling</u>	<u>Interval</u>	<u>Length</u>
13 3/8	54.50#	J-55	8R	ST & C	0 - 500'	500'

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

Cement Program: Slurry 500 sacks "Class C" with 2% CaCl₂

Expected Linear Fill: Circulate to surface.

Slurry Properties: Weight: 14.8 ppg Yield 1.32 cu.ft/sack

Hole Size: 11 "

Setting Depth: 4200'

Total Depth: 4200'

Mud Weight: 10.0 ppg

Casing Size: 8 5/8"