

# ENERGY RESOURCES CORPORATION

## LANGLIE LYNN QUEEN UNIT #21 2,130' FNL & 657' FWL SECTION-26, TOWNSHIP-23-S, RANGE-36-E LEA COUNTY, NEW MEXICO

### \* DRILLING PROGRAM \*

#### 5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL: (EXHIBIT #1)

- (A) The blowout preventer, (BOP), equipment shown in Exhibit #1 will consist of a double ram-type, (3,000-psi MWP), preventer and a annular, (3,000-psi MWP), preventer. The BOP units will be hydraulically operated, the ram-type preventer will be equipped with blind rams on top and drill pipe rams on bottom. All BOP's and accessory equipment will be tested to 1,000 psi prior to drilling out from under the Surface casing. This equipment will be used from  $\pm 300'$  to TD.
- (B) The Pipe rams will be operationally checked each 24-hour period. The Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

#### 6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

This well will be drilled to TD with a combination of fresh & brine water w/ a Starch/Salt Gel mud-up. The applicable depths and properties of this system are as follows:

<u>Depth</u>	<u>Type</u>	<u>Wt (PPG)</u>	<u>Viscosity (sec)</u>	<u>Water loss (cc)</u>
0-300'	Fresh Water (spud)	8.5	40-45	N.C.
300-3,300'	Brine Water	10.2	29-30	N.C.
3,300-3,850'	Brine/Starch/Gel	10.4	30-45	10-12

Sufficient mud materials to maintain mud properties and meet minimum loss-circulation requirements will be kept at the well site at all times.

#### 7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

- (A) A kelly-cock valve will be kept in the drill string at all times that the kelly is necessary.
- (B) A full opening drill pipe valve (Inside BOP) with proper drill pipe connections will be kept on the rig floor at all times.
- (C) H2S detection/monitoring equipment will be installed & all personnel will be trained prior to drilling out from under the surface casing.