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MAY 18 1977

U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

Operator: MARALO, INC.

Lease and Well No.: FEDERAL-CARSON NO. 1

Location: 660' FSL & 1980' FWL, Section 3, T-9-S, R-31-E,
Chaves County, New Mexico

Elevation:

Surface Casing:

17 1/2" hole is to be drilled to 450'± using a fresh water gel-lime mud (8.5 to 8.8 PPG, 34 to 36 sec vis, NC on water loss).

Casing setting as follows (assuming 450' as setting depth):

Description	Thds Off Length	From	To
Rotary Correction	12	0	12
13 3/8" OD, 48#/ft, H-40, ST&C	398	12	410
13 3/8" OD, 48#/ft, H-40, ST&C	39	410	449
Howco type M guide shoe	1	449	450

The bottom three (3) joints are to be sand blasted to remove mill scale and lacquer and are to be welded and sealed with Howco-weld A. Positive type centralizers are to be used; one set on each of the bottom three (3) joints. API modified thread lubricant is to be used on the casing threads.

Casing is to be cemented to the surface using 500 sacks Class "C", 2% CaCl cement.

(slurry wt 15.0 PPG, slurry volume 1.324 CF/sack; 6.3 gal mixing wtr per sack; 3 hrs pumping time)

A W.O.C. time of twelve (12) hours, after plug is down, will be observed.

Prior to drilling the float, the casing is to be displaced with 10.0 PPG brine, and the casing is to be pressure tested to 500 psi for 30 minutes. After drilling the shoe the casing is again to be pressure tested to 500 psi for 30 minutes.

Intermediate Casing:

11" hole is to be drilled to 3350'±

(Actual casing point is to be determined by geologist on location and below the top of the San Andres formation. Sufficient to case off incompetent zones.)

using a 10.0 PPG brine (28 to 35 sec vis, NC on water loss) using

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OIL CONSERVATION COMM.
HOBBS, N. M.