

UNION OIL COMPANY OF CALIFORNIA
DISTRICT OFFICE - MIDLAND, TEXAS

DRILLING PROGRAM

Field: Undesignated (Morrow)

Location: 990' FSL & 1980' FWL, Section 26,
T-19-S, R-33-E, Lea County, New Mexico.

Well Name: LAGUNA DEEP UNIT FEDERAL WELL NO. 2

Estimated Total Depth: 13,700'

Drilling Data: 10' drlg time 2800'-TD

Samples: 10' samples 3100'-TD

Estimated Formation Tops:

| | | | |
|-------------|---------|---------------|---------|
| Base/Salt | 2990' | Atoka | 12,305' |
| Bone Spring | 8140' | Upper Morrow | 12,820' |
| Wolfcamp | 10,825' | Middle Morrow | 13,000' |
| Cisco | 11,765' | Lower Morrow | 13,320' |
| Strawn | 12,070' | | |

Logs: Dual Laterolog, Comp Neutron, PDC, Gamma Ray 5300'-TD
(w/Gamma Ray to surface)

DSTs: Test indicated productive zones after logging

Cores: None

Deviation: 10/100' maximum rate of change

Casing & Mud Program:

| Depth | Size Hole | Casing | Cement | W.O.C. | Mud | | |
|----------------|--------------|---------|------------|--------|-----------|-----------|------|
| | | | | | Wt. | Vis. | W.L. |
| 0-1370' | 15" | 11-3/4" | * 800 sx | 24 hrs | As needed | to spud | |
| 1370-3550' | 11" | 8-5/8" | ** 825 sx | 24 hrs | 10# | Brine wtr | |
| 3550-10,500' | 7-7/8" | - | - | - | - | Fresh wtr | |
| 10,500-12,500' | 7-7/8" | - | - | - | 10# | Brine wtr | |
| 12,500-13,700' | 7-7/8" | 5-1/2" | ***2000 sx | 6 hrs | 8.8-10.2 | 32-40 | 10 |

Rig to be released after nipping up 5-1/2" casing.

* Cmt w/600 sx Class "C" w/4% gel 1/4# flocele & 2% CaCl₂, followed w/200 sxs Class "C" w/1/4# flocele, 2% CaCl₂. ** Cmt salt string w/625 sx Halliburton light w/1/4# flocele, 5# gilsonite 5# salt & 1% CaCl₂ followed w/200 sxs Class "C" w/1/4# flocele, 5# salt & 1% CaCl₂.

*** Cmt through csg shoe @ 13,700' w/925 sxs Class "H" 50:50 pozmix "A", 2% gel, 5 lbs KCL, .75% CFR-2 & .6% Halad-22A; Cmt 2nd stage thru DV tool @ 8500' w/600 sx Halliburton light w/.5% CFR-2 & .6% Halad-22A followed w/100 sx Class "H" w/3# salt & .6% Halad-22A; Cmt 3rd stage thru DV tool @ 3500' w/275 sx Halliburton light followed w/100 sx Class "C".

NOTE: Changes in the above program will be at the direction of a qualified Union Oil Company of California representative and should be clearly indicated on the program posted at the rig.

J. L. White 
Drilling Superintendent

RECEIVED

AUG 21 1979

O.C.D. HOBBS, OFFICE