

CLEARY PETROLEUM CORPORATION

MIDLAND DISTRICT  
November 18, 1976

DRILLING PROGRAM

WELL: Cleary Petroleum Corporation  
New Mexico Federal "D" No.1  
3300' FSL and 1980' FWL  
Section 4, T-21-S, R-32-E  
Lea County, New Mexico

ELEVATION: 3688 GR.

SURFACE FORMATION: Quaternary alluvium and bolson deposits.

ESTIMATED FORMATION TOPS:

| <u>Formation</u>        | <u>Estimated Depth</u> | <u>Remarks</u>        |
|-------------------------|------------------------|-----------------------|
| B/Red Bed/Top Anhydrite | 1400'                  | No show               |
| Yates                   | 3300'                  | No show               |
| Capitan Reef            | 3500'                  | Prob. water           |
| Del. Mtn. Sands         | 5200'                  | Prob. water           |
| Bone Spring             | 8450'                  | Prob. water           |
| Wolfcamp                | 10850'                 | Poss. show oil or gas |
| Strawn                  | 12400'                 | Poss. show/oil        |
| Atoka Sand              | 12700'                 | Poss show/gas         |
| Atoka Carbonates        | 12900'                 | No show               |
| Morrow Upper Sands      | 13450-13650'           | Prod. gas             |
| Morrow Lower Sands      | 13750-T.D.             | Prod. gas             |
| Total Depth             | 14000'                 |                       |

ESTIMATED DRILLING TIME: 55 days

Samples: 10' sampes 3000' to total depth.

Drilling Time Record: Geologist - Surface to T.D. Hand kept drilling time as directed by geologist.

Coring: None

Testing: None anticipated dependent upon shows above main producing horizon (Morrow Sands).

Logging: Run #1 - Surface to thru Salado Formation 0'-3500'  
GR-Acoustic-Caliper.  
Run #2 - Base Intermediate to T. D.  
GR-Acoustic Neutron, Guard, Forxo  
Welex Logging Co.

Similar Well: Cleary Petroleum No. 1 New Mexico Federal

Known Drilling Hazard in Area: Possible lost circulation in Capitan Reef 3600'-4400'.  
Possible high pressure in Wolfcamp and Atoka Sand.

Oil or Gas Shows: If any indications are noted and geologist not at well site, please call:

W. J. "Bill" Henry Office 915-682-4484  
Home 915-694-4520

or

Cleary Petroleum Corporation Office 915-683-4793  
Doug Rice Home 915-684-4724

Consulting Geologist: William J. Henry  
William J. Henry

Assistant District Manager Douglas W. Rice  
Douglas W. Rice, Cleary Petroleum Corporation

Attachment I.

CLARY PETROLEUM CORPORATION  
NEW MEXICO FEDERAL "D" #1  
LEA COUNTY, NEW MEXICO

CASING & CEMENTING PROGRAM

Surface Casing:

17½" hole size; set approximately 470' of 13 3/8, 54.5 #K-55 new casing using 350 sx of Class "C" cmt. containing 4% gel, 2% Calcium Chloride with ¼# flocele per sk, tail in with 300 sx Class "C" cmt. containing 2% Calcium Chloride with ¼# flocele per sk.

Intermediate Casing:

12¼" hole size; set approximately 5600' 9 5/8" 40# and 47# N-80 & J-55 new casing, cmt. to surface using B' Multiple Stage tool at approximately 3350'. The first stage cmt. will consist of 850 sx of Halliburton Light cmt. containing 5# of Gilsenite & ¼# flocele per sk., tail in with 300 sx of Class "C" containing 2% Calcium Chloride & ¼# flocele per sk. The second stage cmt. will consist of 2000 sx Halliburton Light cmt. containing 15% salt and ¼# flocele per sk. tail in with 100 sx Class "C" cmt. containing 2% Calcium Chloride & ¼# flocele per sk.

Production String:

7 7/8" hole size: set 5½" 20# & 17# N-80 LT & C & 17# N-80 buttress from 14,200' to surface. Cmt. with 150 sx Halliburton Light cmt. containing 0.6% Halad -22, 5# Gilsenite & ¼# flocele, tail in with 525 sx of Class "H" containing 0.8% Halad-22, 0.4% CRF-2, 3# KCL, & ¼# flocele/sk. All 5½" casing will be new.

RECEIVED

1957

1957

3000 lb. WP BOP

RIG #1

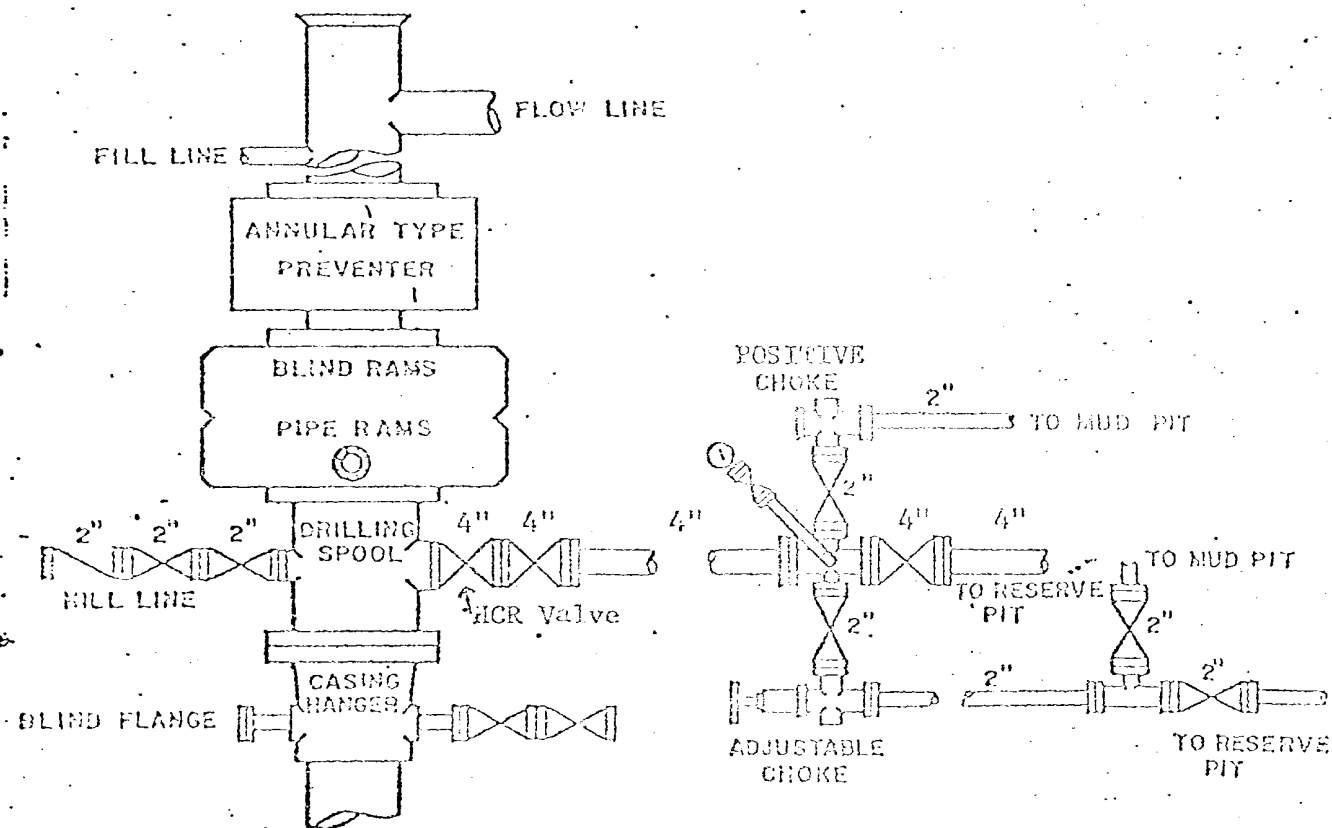
12" Shaffer Type B Hydraulic BOP 3000 PSI

12" GK Hydril 3000 WP

160 Gallon - 7 Station Roomey Accumulator with Remote Control

5000 lb. WP Choke Manifold

10" Type U Cameron 5000 WP, Double BOP



Attachment III