DEVELOPMENT PLAN FOR SURFACE USE

1. Existing roads, location, exit from the main highway and main access road in vicinity of location are shown on map #1.

2. There will be no need of further access roads. There are existing roads crossing the East side and the North West corners of the proposed location.

3. Location of existing wells are shown on map #1.

4. Lateral roads are also shown on map #1.

5. Location of tank batteries and flow lines are shown on map #2. The existing tank battery and the existing flow line shown on the map will be used if the well is successful. Also if other wells are drilled and are successful the same battery and flow lines will be used.

6. This well will not be drilled with mud and therefore a very small amount of water will be used. Only small amounts are needed to cement surface and hopefully a production casing string, this water will be hauled in trucks from town. No water lines will be needed.

7. The handling of waste, cuttings, garbage, trash and etc. will be disposed of in two $2\frac{1}{2}$' X 12' X 8' pits shown on the plot #1 which shows the location and layout for point number 10. Each pit is at the end of the blewey lines to catch the cuttings and when the drilling is done these pits will be leveled and covered with the same top soil that was removed from them.

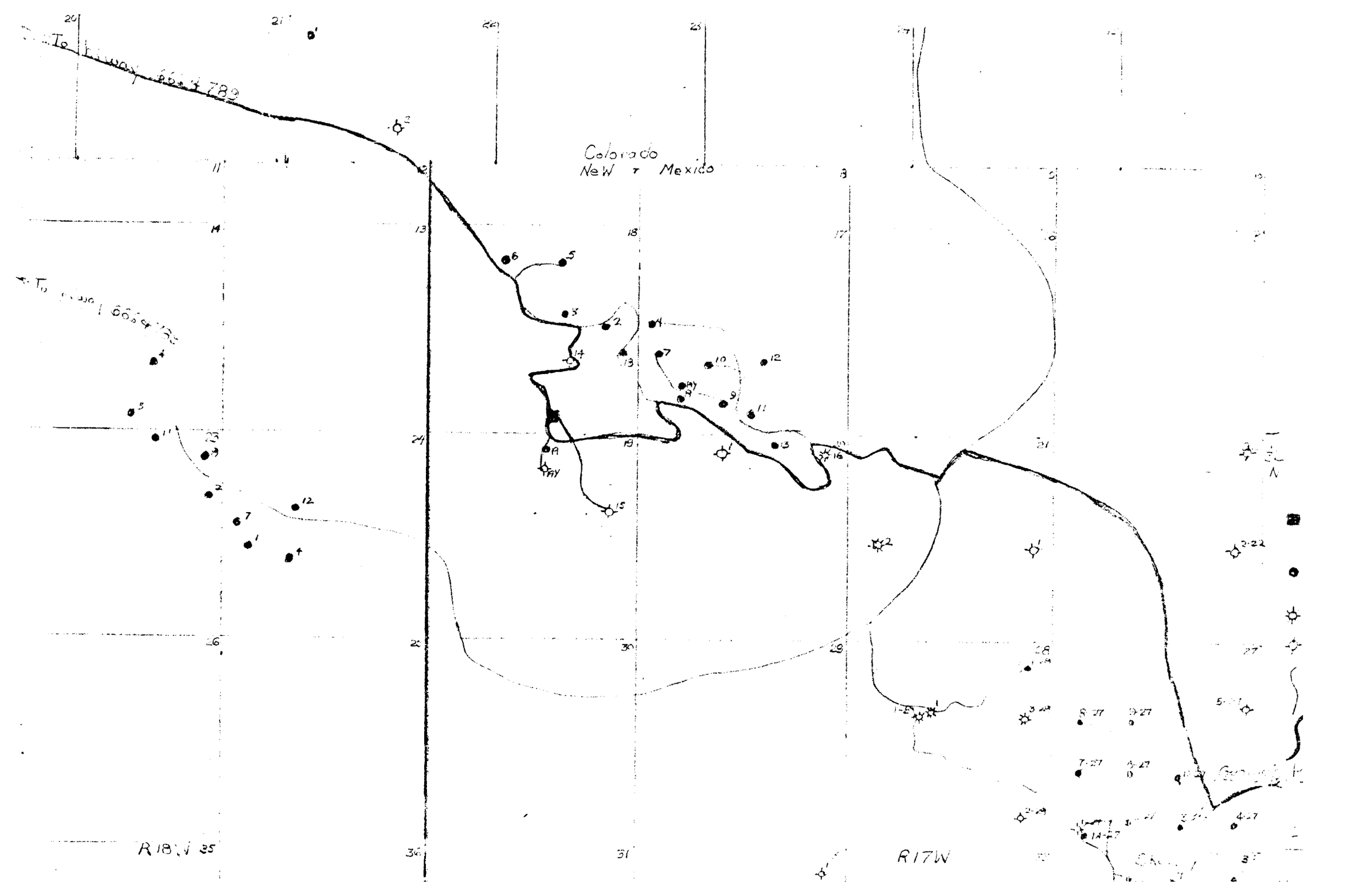
8. No camp will be used.

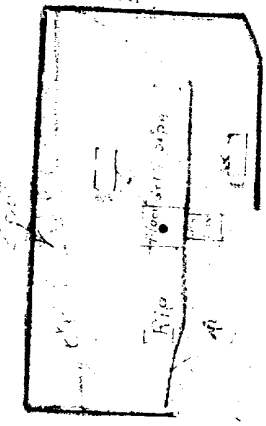
9. No airstrip will be used.

10. Location and layout is shown on plot #1. The location will not be compacted, except what accures with normal traffic and use.

11. Plans for restoring are shown on plot #1. The entire location will be leveled and reseeded if the well is dry. The area needed for a location is shown on plot #1 is enclosed in red. The area needed if the well is successful is shown in red hashes, also the area to be restored and reseeded if the well is successful is shown in green hashes. The top soil will be left at each end of the cutting and waste pits to be used again in covering the waste and re-seeding. The seed required for this area and mixture needed will be used to reseed.

12. The area is generally shaly in the vallies with 200' to 300' steep cliffs to Mesa Verde bluffs on top. Cuts and fills are shown on plot number 1.


To Highway 666 & 789
Colorado
New Mexico
To Highway 666 & 789
R18W
R17W


Access Road
Fire

CL-811-B

0-18-32N-17W

# CORE LABORATORIES, INC.

*Petroleum Reservoir Engineering*

DALLAS, TEXAS

Company WOOSLEY OIL COMPANY Formation LOWER GALLUP Page 1 of 1

Well NO. 21 NAVAJO AA Cores DIA. CONV. 3½" File RP-3 9103-2593

Field NORTH MANY ROCKS Drilling Fluid AIR-MIST Date Report 7-26-73

County SAN JUAN State NEW MEXICO Elevation 5440 GL Analysts REB-RM

Location 1874FEL-300FSL Sec. 18 T32N R17W Remarks CONVENTIONAL CORE ANALYSIS

## CORE ANALYSIS RESULTS

*(Figures in parentheses refer to footnote remarks)*

| SAMPLE NUMBER | DEPTH FEET | PERMEABILITY MILLIDARCYS HORIZONTAL $K_A$ | PERMEABILITY MILLIDARCYS VERTICAL | POROSITY PERCENT | RESIDUAL SATURATION % VOLUME OIL % PORE | RESIDUAL SATURATION TOTAL WATER % PORE | PROBABLE PRODUCTION | REMARKS |
|---|---|---|---|---|---|---|---|---|
| 1 | 1420-21 | 9.3 | 0.2 | 13.9 | 22.3 | 51.0 | | Ss gry fn calc shl lam |
| 2 | 1421-22 | 16 | 5.6 | 15.0 | 22.6 | 44.0 | | Ss gry fn calc shl lam |
| 3 | 1422-23 | 0.3 | 0.1 | 12.1 | 17.4 | 52.2 | | Ss gry fn calc shl lam |
| 4 | 1423-24 | 1.2 | 0.2 | 7.8 | 17.9 | 48.7 | | Ss gry fn-med calc shl lam |

RECEIVED
MAR 8 1976
OIL CON. COM.
DIST. 3

RECEIVED
MAR 5 1976
U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

NOTE: SERVICE NO. 5-A, 1-B.

(*) REFER TO ATTACHED LETTER.
(1) INCOMPLETE CORE RECOVERY—INTERPRETATION RESERVED.
(2) OFF LOCATION ANALYSES—NO INTERPRETATION OF RESULTS.