

## CORE ANALYSIS RESULTS

Company CONOCO, INC. Formation See Below File RP-3-3174  
Well Nmalco 11 No. 1 Core Type Sidewall Date Report 12-14-81  
Field Chaco Slope Drilling Fluid GeI Chem Analysts GG;DS  
County McKinley State N.M. Elev. 6220 KB Location SW,SW Sec.11-20N-12W

### Lithological Abbreviations

|                                      |                                              |                                                                 |                                          |                                           |                                                     |                                         |                                                          |                                          |
|--------------------------------------|----------------------------------------------|-----------------------------------------------------------------|------------------------------------------|-------------------------------------------|-----------------------------------------------------|-----------------------------------------|----------------------------------------------------------|------------------------------------------|
| SAND - SD<br>SHALE - SH<br>LIME - LM | DOLOMITE - DOL<br>CHERT - CH<br>GYPSUM - GYP | ANHYDRITE - ANHY<br>CONGLOMERATE - CONG<br>FOSSILIFEROUS - FOSS | SANDY - SDY<br>SHALY - SHY<br>LIMY - LMY | FINE - FN<br>MEDIUM - MED<br>COARSE - CSE | CRYSTALLINE - XLM<br>GRAIN - GRN<br>GRANULAR - GRNL | BROWN - BRN<br>GRAY - GR<br>VUGGY - VGY | FRACTURED - FRAC<br>LAMINATION - LAM<br>STYLOLITIC - STY | SLIGHTLY - SL/<br>VERY - V/<br>WITH - W/ |
|--------------------------------------|----------------------------------------------|-----------------------------------------------------------------|------------------------------------------|-------------------------------------------|-----------------------------------------------------|-----------------------------------------|----------------------------------------------------------|------------------------------------------|

| SAMPLE<br>NUMBER  | DEPTH<br>FEET | PERMEABILITY<br>MILLIDARCY | POROSITY<br>PER CENT | RESIDUAL SATURATION<br>PER CENT PORE |                | SAMPLE DESCRIPTION<br>AND REMARKS |
|-------------------|---------------|----------------------------|----------------------|--------------------------------------|----------------|-----------------------------------|
|                   |               |                            |                      | OIL                                  | TOTAL<br>WATER |                                   |
| 23                | 3216          |                            | 15.7                 | 0.0                                  | 83.4           | SD-GRY,vf grn                     |
|                   | 3228          |                            | *                    | *                                    | *              | SD-WHT,vf grn,fri                 |
| 24                | 3262          |                            | 18.5                 | 3.8                                  | 68.1           | SD-BRN,vf grn                     |
| DAKOTA FM.        |               |                            |                      |                                      |                |                                   |
|                   | 3273          |                            | *                    | *                                    | *              | SD-L BRN,vf grn,mud,fri           |
|                   | 3275          |                            | *                    | *                                    | *              | SD-WHT,vf grn,fri                 |
| 25                | 3283          |                            | 21.3                 | 0.0                                  | 89.2           | SD-WHT,vf grn                     |
| 26                | 3323          |                            | 12.0                 | 0.0                                  | 77.5           | SD-WHT,vf grn,sl/shl lam          |
|                   | 3333          |                            | *                    | *                                    | *              | SD-WHT,vf grn,fri                 |
| BRUSHIE BASIN FM. |               |                            |                      |                                      |                |                                   |
|                   | 3471          |                            | *                    | *                                    | *              | SD-WHT,f-m grn,fri                |
|                   | 3474          |                            | *                    | *                                    | *              | Mud                               |
| ENTRADA FM.       |               |                            |                      |                                      |                |                                   |
| 27                | 4519          |                            | 17.1                 | 0.0                                  | 52.6           | SD-WHT,vf grn                     |
| 28                | 4523          |                            | 22.0                 | 0.0                                  | 76.8           | SD-L GRY,vf grn                   |
| 29                | 4530          |                            | 17.6                 | 0.0                                  | 76.2           | SD-BRN,f-m grn                    |
| 30                | 4548          |                            | 17.3                 | 0.0                                  | 78.0           | SD-BRN,f-m grn                    |

