

**CORE LABORATORIES, INC.**  
*Petroleum Reservoir Engineering*

DALLAS, TEXAS

PHILLIPS PETROLEUM COMPANY  
 20350 TR. 3202 WELL #010 #8

DATE

: 11-26-81

FORMATION

: GRAYBURG/SAN ANDRES

FILE NO : 3202-12680

ANALYSTS : REINHEIMER

**FULL DIAMETER ANALYSIS**

| SAMPLE<br>NUMBER | DEPTH<br>FEET | PERM<br>MAXIMUM | PERM<br>90 DEG | HE<br>POR | OIL%<br>PORE | WTR%<br>PORE | GRAIN<br>DEN | DESCRIPTION                                     |
|------------------|---------------|-----------------|----------------|-----------|--------------|--------------|--------------|-------------------------------------------------|
| 129              | 4554.0-55.0   | 0.05            | 0.02           | 13.1      | 27.4         | 53.1         | 2.79         | DOL SHY SL/ANHY SL/SDY VF SL/V<br>FOSS          |
| 130              | 4555.0-56.0   | 0.04            | 0.04           | 14.0      | 22.1         | 58.6         | 2.77         | DOL SHY SL/ANHY SL/SDY VF SL/V                  |
| 131              | 4556.0-57.0   | 5.8             | 0.83           | 9.0       | 15.3         | 76.2         | 2.70         | DOL SL/ANHY SL/SHY SL/SDY SL/V<br>FOSS          |
| 132              | 4557.0-58.0   | 0.72            | 0.35           | 8.8       | 22.4         | 74.1         | 2.80         | DOL SL/ANHY SL/SHY SL/SDY SL/V<br>FOSS STY      |
| 133              | 4558.0-59.0   | 0.40            | 0.36           | 4.3       | 31.8         | 60.2         | 2.80         | DOL SL/ANHY SL/SHY SL/SDY SL/V<br>FOSS STY      |
| 134              | 4559.0-60.0   | 0.05            | 0.05           | 2.2       | 9.5          | 85.7         | 2.82         | DOL SL/ANHY SL/SHY SL/SDY SL/F<br>SL/V FOSS STY |
| 135              | 4560.0-61.0   | <0.01           |                | 1.9       | 4.4          | 68.6         | 2.84         | DOL SL/ANHY SL/SHY SL/SDY SL/V<br>FOSS STY      |
| 136              | 4561.0-67.0   |                 |                |           |              |              |              | NA DOL SHY STY                                  |
| 136              | 4567.0-68.0   | 0.32            | 0.22           | 10.3      | 9.8          | 45.7         | 2.68         | DOL SL/ANHY SL/SHY SL/SDY SL/V<br>FOSS STY      |
| 137              | 4568.0-69.0   | 0.31            | 0.21           | 11.5      | 11.3         | 49.2         | 2.66         | DOL SL/SHY SL/SDY PP SHLAM                      |
| 137              | 4569.0-82.0   |                 |                |           |              |              |              | NA DOL ANHY SHLAM STY                           |
| 138              | 4582.0-83.0   | <0.01           | <0.01          | 4.3       | 27.7         | 42.6         | 2.86         | DOL SL/ANHY SL/SHY SL/V SHLAM<br>STY            |
| 139              | 4583.0-99.0   |                 |                |           |              |              |              | NA DOL ANHY SHLAM STY                           |
| 139              | 4599.0- 0.0   | 0.36            | 0.12           | 1.2       | 36.4         | 36.4         | 2.91         | DOL V/ANHY SL/SHY SHLAM                         |
| 140              | 4600.0- 1.0   | 0.34            | 0.13           | 1.7       | 40.0         | 20.0         | 2.89         | DOL V/ANHY SHLAM                                |
| 141              | 4601.0- 2.0   | 0.23            | 0.22           | 2.7       | 7.1          | 42.9         | 2.88         | DOL ANHY SL/SHY SHLAM                           |
| 142              | 4602.0- 3.0   | 47.             | 41.            | 10.6      | 34.2         | 16.5         | 2.87         | DOL ANHY PP                                     |
| 143              | 4603.0- 4.0   | 49.             | 37.            | 9.9       | 16.8         | 26.9         | 2.83         | DOL SL/ANHY PP                                  |
| 144              | 4604.0- 5.0   | 15.             | 9.4            | 5.4       | 27.1         | 25.4         | 2.90         | DOL SL/ANHY PP                                  |
| 145              | 4605.0- 6.0   | 26.             | 26.            | 9.5       | 23.5         | 26.1         | 2.86         | DOL SL/ANHY PP                                  |
| 146              | 4606.0- 7.0   | 8.6             | 2.7            | 1.7       | 12.5         | 43.7         | 2.93         | DOL ANHY VF SL/V SHLAM FOSS                     |
| 147              | 4607.0- 8.0   | 342.            | 266.           | 14.8      | 28.4         | 24.2         | 2.87         | DOL SL/ANHY PP FOSS                             |

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