

Arco Oil & Gas  
Langley-Meyers #1 Well  
Lea County, New Mexico

Field: Deep Langley

Laboratory: Midland, Texas  
File No: 10150341  
Date: 9-5-85  
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FULL DIAMETER CORE ANALYSIS

| SAMPL. NO. | DEPTH FEET  | PERMEABILITY TO AIR MAX. 90° | POROSITY PERCENT | SATURATION WTR OIL | GRAIN DENSITY | LITHOLOGY | FLUORESCENCE                            |
|------------|-------------|------------------------------|------------------|--------------------|---------------|-----------|-----------------------------------------|
| 53         | 9411.0-12.0 | .21                          | 0.6              | 27.4               | 0.0           | 2.71      | LS, LTGY, VFXLN, VTFRAC MINERAL         |
| 54         | 9412.0-13.0 | .21                          | 0.6              | 35.7               | 0.0           | 2.71      | LS, LTGY, VFXLN, FOSS MINERAL           |
| 55         | 9413.0-14.0 | .43                          | 0.5              | 49.0               | 10.0          | 2.70      | LS, LTGY, VFXLN, FOSS MINERAL           |
| 56         | 9414.0-15.0 | .25                          | 0.4              | 34.5               | 2.9           | 2.69      | LS, LTGY, VFXLN, FOSS MINERAL           |
| 57         | 9415.0-16.0 | .49                          | 1.4              | 22.6               | 0.0           | 2.69      | LS, LTGY, VFXLN, FOSS MINERAL           |
| 58         | 9416.0-17.0 | .46                          | 2.6              | 27.3               | 0.0           | 2.71      | LS, LTGY, VFXLN, FOSS, PPP MINERAL      |
| 59         | 9417.0-18.0 | .27                          | 2.2              | 23.9               | 0.0           | 2.69      | LS, LTGY, VFXLN, FOSS, PPP MOTT YL      |
| 60         | 9418.0-19.0 | .12                          | 1.5              | 18.2               | 9.0           | 2.69      | LS, LTGY, VFXLN, FOSS, PPP MOTT YL      |
| 61         | 9419.0-20.0 | 7.4                          | 5.4              | 15.9               | 0.0           | 2.70      | LS, LTGY, VFXLN, FOSS, ABNT PPP MOTT YL |
| 62         | 9420.0-21.0 | 40.                          | 8.4              | 14.9               | 11.2          | 2.71      | LS, LTGY, VFXLN, FOSS, ABNT PPP MOTT YL |
| 63         | 9421.0-22.0 | .85                          | 1.6              | 22.3               | 0.0           | 2.71      | LS, LTGY, VFXLN, FOSS, PPP MOTT YL      |
| 64         | 9422.0-23.0 | .85                          | 0.6              | 15.3               | 5.7           | 2.71      | LS, LTGY, BREX, VTFRAC, FOSS MINERAL    |
|            | 9423.0-26.0 |                              |                  |                    |               |           | LOST CORE                               |