



CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

COMPANY HUNT OIL COMPANY FILE NO. WP-3-2013  
WELL MOREMAN NO. 1 DATE 10-27-62 ENGRS BOONE  
FIELD WILDCAT FORMATION DEVONIAN ELEV. 3778' DF  
COUNTY LEA STATE NEW MEXICO DRUG FLD WATER BASE MUD CORES DIAMOND 3 1/2"  
LOCATION 1980 FN & EL SEC 8-T15S-R38E REMARKS SAMPLED AS DIRECTED BY CLIENT

## COMPLETION COREGRAPH

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SAND



LIMESTONE



CONGLOMERATE



CHERT



ANHYDRITE



SHALE



COLOMITE



COAL



### SAMPLE CHARACTERISTICS

F: Fractured L: Laminated FG: MG, CG Type Grain Size S: Stylolitic V: Vuggy

### PROBABLE PRODUCTION

O: Oil W: Water G: Gas T: Transitional

### TOTAL WATER

PERCENT PORE SPACE

75 50 25

### OIL SATURATION

PERCENT PORE SPACE

25 50 75

### WHOLE-CORE ANALYSIS

| SAMPLE<br>NUMBER    | DEPTH<br>FEET | PERMEABILITY MD        |      | POROSITY<br>% | RESIDUAL<br>SATURATION<br>% PORE SPACE |                | PERMEABILITY    |    | POROSITY X---X |   | OIL SATURATION X---X |    |    |
|---------------------|---------------|------------------------|------|---------------|----------------------------------------|----------------|-----------------|----|----------------|---|----------------------|----|----|
|                     |               | * Horizontal Perm Plug |      |               | OIL                                    | TOTAL<br>WATER | M.D. D.A.R.Y.S. |    | PERCENT        |   | PERCENT PORE SPACE   |    |    |
|                     |               | HORIZONTAL<br>MAX.     | 90°  |               |                                        |                | 20              | 10 | 10             | 5 | 25                   | 50 | 75 |
| WHOLE-CORE ANALYSIS |               |                        |      |               |                                        |                |                 |    |                |   |                      |    |    |
|                     |               |                        |      |               |                                        |                |                 |    |                |   | 13184                |    |    |
|                     |               |                        |      |               |                                        |                |                 |    |                |   | 13185                |    |    |
|                     |               |                        |      |               |                                        |                |                 |    |                |   |                      |    |    |
| 1                   | 13190.0-91.3  | 0.5                    | <0.1 | 1.6           | 0.0                                    | 78.5           | V               |    |                |   | 13190                |    |    |
| 2                   | 13191.3-93.0  | 4.7                    | 3.9  | 2.0           | 0.0                                    | 65.5           | FV              |    |                |   |                      |    |    |
| 3                   | 93.0-94.7     | 5.0                    | 4.3  | 2.1           | 0.0                                    | 64.2           | FV              |    |                |   |                      |    |    |
|                     |               |                        |      |               |                                        |                |                 |    |                |   | 13195                |    |    |
| 4                   | 13194.7-96.1  | 2.0                    | 0.7  | 1.9           | 0.0                                    | 69.7           | FV              |    |                |   |                      |    |    |
| 5                   | 96.1-97.5     | 7.3                    | 3.0  | 3.0           | 0.0                                    | 66.5           | FV              |    |                |   |                      |    |    |
| 6                   | 13197.5-99.0  | 13                     | 8.5  | 3.9           | 0.0                                    | 70.7           | FV              |    |                |   |                      |    |    |
| 7                   | 99.0-00.8     | 11                     | 6.0  | 5.6           | 0.0                                    | 48.9           | V               |    |                |   | 13200                |    |    |
| 8                   | 13200.8-02.0  | 4.0                    | 0.6  | 2.9           | 0.0                                    | 76.3           | F               |    |                |   |                      |    |    |
| 9                   | 02.0-03.8     | 4.1                    | <0.1 | 2.2           | 0.0                                    | 80.8           | F               |    |                |   |                      |    |    |
| 10                  | 13203.8-05.5  | 12                     | 2.6  | 2.1           | 0.0                                    | 63.6           | FV              |    |                |   | 13205                |    |    |
| 11                  | 13205.5-06.7  | *0.1                   | *0.1 | 2.2           | 0.0                                    | 80.0           | FV              |    |                |   |                      |    |    |
| 12                  | 06.7-08.3     | *0.1                   | *0.1 | 1.8           | 0.0                                    | 73.9           | F               |    |                |   |                      |    |    |
| 13                  | 13208.3-10.0  | *0.1                   | *0.1 | 3.2           | 0.0                                    | 73.2           | F               |    |                |   | 13210                |    |    |
| 14                  | 10.0-11.3     | *0.1                   | *0.1 | 1.9           | 0.0                                    | 72.8           | FV              |    |                |   |                      |    |    |
| 15                  | 11.3-12.6     | 17                     | 5.3  | 1.8           | 0.0                                    | 71.3           | FV              |    |                |   |                      |    |    |
| 16                  | 13212.6-13.9  | 7.7                    | 4.3  | 2.0           | 0.0                                    | 71.2           | FV              |    |                |   |                      |    |    |
| 17                  | 13.9-15.1     | 2.3                    | 1.5  | 2.9           | 0.0                                    | 70.7           | FV              |    |                |   | 13215                |    |    |
| 18                  | 15.1-16.8     | 8.0                    | 3.2  | 3.2           | 0.0                                    | 84.8           | FV              |    |                |   |                      |    |    |
| 19                  | 13216.8-18.0  | *0.1                   | *0.1 | 2.6           | 0.0                                    | 71.0           | F               |    |                |   |                      |    |    |
| 20                  | 18.0-19.0     | *0.1                   | *0.1 | 2.2           | 0.0                                    | 79.8           | F               |    |                |   | 13219                |    |    |