Schlumberger

COMPUTED LOG
PRESENTATION

COUNTY L.INCOLN
FIELD
STATE OKLA.
WELL

COMPANY COLORADO OIL AND GAS CORPORATION
WELL BARNES
FIELD
COUNTY LINCOLN STATE OKLAHOMA
Other Services: DIPLOG

| Date | Run No. | Depth Driller | Depth Logger | Bottom Log Interval | Top Log Interval | Casing Driller | Casing Logger | Bit Size |
|---|---|---|---|---|---|---|---|---|
| 3-1-70 | ONE | 3800 | 3798 | 3798 | SURF. | 8 5/8 @ 300 | | 7 7/8 |

| Type Fluid in Hole | Density | Viscosity | pH | Fluid Loss | Source of Sample | Rm @ Meas. Temp. | Rmf @ Meas. Temp. | Rmc @ Meas. Temp. | Source Rmf / Rmc |
|---|---|---|---|---|---|---|---|---|---|
| DRILLING MUD | 9.2 | 40 | 10.5 | 8.4 | PIT | .75 @ 74 | | | |

| Time Since Circ. | Max. Rec. Temp. | Equip. Location | Recorded By | Witnessed By |
|---|---|---|---|---|
| 8 HRS. | 74 | | | |

| Run No. | Bit No. | From | To | Hole Size | Casing Size | Wgt. | Type Fluid |
|---|---|---|---|---|---|---|---|
| ONE | 1 | SURF. | 3800 | 7 7/8 | 8 5/8 @ 300 | | |

| Run No. | Tool Type | Serial No. | Position |
|---|---|---|---|
| ONE | DIPLOG | 1 | |

Total Units: The well name, location and formation, otherwise data were furnished by the customer.

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except to the extent of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 7 of our General Terms and Conditions as set out in our current Price Schedule.

REMARKS: * G.R. & F.E. NOT AVAILABLE ON THE FIELD LOG. SI IS COMPUTED AFTER Sp AND F1 ARE CORRECTED FOR BACKGROUND.

| ZONE | START | STOP |
|---|---|---|
| 1 | 1000 | 1200 |
| 2 | 1250 | 3000 |

| WEIGHTED TOTAL FLAG | WEIGHTED TOTAL FLAG | WEIGHTED TOTAL FLAG | WEIGHTED TOTAL FLAG |
|---|---|---|---|
| 0 100 | 0 100 | 100 0 | 0 100 |
| PATTERN 1 FLAG | PATTERN 2 FLAG | PATTERN 3 FLAG | PATTERN 5 FLAG |
| 0 50 | 0 10 | 10 0 | 0 10 |
| SIGMA VS RATIO | SIGMA VS $F_1$ | SIGMA VS $SI_{CH}$ 1 100 | SIGMA VS GR |

2600
2700
2800
2900
3000
3100
3200
CASE 2 B
CASE 1 A
3300
3400
3500
3600
3700
3800
3900
4000