Schlumberger

2" DIAL INDICATOR

| | |
|---|---|
| COMPANY | MECHANICAL ENERGY CORPORATION |
| WELL | 1 |
| FIELD | COUNTY |
| LOCATION | COUNTY |
| SEC | 4 TWP 23S RGE 26E |
| | 1640' NORTH & 1320' WEST |
| | OF SOUTH EAST CORN |
| | SEC. 4 T23S-R26E |
| | COUNTY |
| | COUNTY |
| | STATE |
| | STATE |
| PERMANENT DATUM | GL |
| LOG MEASURED FROM | KB 7.5 ft |
| DRILL MEASURED FROM | KB |
| API SERIAL NO. | |
| DATE | 29 NOV 84 |
| RUN NO. | 1 |
| TYPE FLUID IN HOLE | GEL |
| DENSITY | 9.7 |
| VISCOSITY | 45 |
| PH | 9.0 |
| FLUID LOSS | 5.6 |
| SOURCE OF SAMPLE | FLOWLINE |
| RM @ MEAS. TEMPERATURE | 3.016 @ 74.0 F |
| RMF @ MEAS. TEMPERATURE | 2.720 @ 74.0 F |
| RMC @ MEAS. TEMPERATURE | 3.720 @ 74.0 F |
| SOURCE RMF/RMC | MEAS/MEAS |
| RM @ BHT | 1.691 @ 147.2 F |
| RMF @ BHT | 1.563 @ 147.2 F |
| RMC @ BHT | 1.953 @ 147.2 F |
| TIME CIRC. STOPPED | 18:56 11-28 |
| TIME LOGGER ON BTM. | 06:45 11-29 |
| MAX. REC. TEMP. | 147.2 F |
| LOGGING UNIT NO. | 8178 |
| LOGGING UNIT LOC. | SACRAMENTO |
| RECORDED BY | SUTER |
| WITNESSED BY | ALGER/MEYER |
| ELEVATION | GL 745.5 ft |
| | KB 753.0 ft |
| | DF 752.5 ft |
| | GL 745.5 ft |
| PERMANENT DATUM | GL |
| ELEVATION | 745.5 ft |
| LOG MEASURED FROM | KB 7.5 ft |
| DRILL MEASURED FROM | KB |
| DATE | 29 NOV 84 |
| RUN NO. | 1 |
| DEPTH-DRILLER | 1000 ft |
| DEPTH-LOGGER | 1000 ft |
| BTM. LOG INTERVAL | 1000 ft |
| TOP LOG INTERVAL | 0 ft |
| CASING-DRILLER | 9 5/8 @ 0 ft |
| CASING-LOGGER | 9 5/8 @ 0 ft |
| BIT SIZE | 7 7/8 in |
| TYPE FLUID IN HOLE | GEL/LIGNO. |
| DENSITY | 9.7 LB/G |
| VISCOSITY | 45 S |
| PH | 9.0 |
| FLUID LOSS | 5.6 C3 |
| SOURCE OF SAMPLE | FLOWLINE |
| RM @ MEAS. TEMPERATURE | 3.016 OHMM AT 52.0 DEGF |
| RMF @ MEAS. TEMPERATURE | 2.720 OHMM AT 52.0 DEGF |
| RMC @ MEAS. TEMPERATURE | 3.720 OHMM AT 47.0 DEGF |
| SOURCE RMF/RMC | MEAS/MEAS |
| RM AT BHT | 1.691 OHMM AT 98.0 DEGF |
| RMF AT BHT | 1.563 OHMM AT 98.0 DEGF |
| RMC AT BHT | 1.953 OHMM AT 98.0 DEGF |
| TIME CIRC. STOPPED | 18:56 11-28 |
| TIME LOGGER ON BTM. | 06:45 11-29 |
| MAX. REC. TEMP. | 98.0 DEGF |
| LOGGING UNIT NO. | 8178 |
| LOGGING UNIT LOC. | SACRAMENTO |
| RECORDED BY | SUTER |
| WITNESSED BY | ALGER/MEYER |
| OTHER SERVICES | DIPLOG |
| | DSN/SDL/AL |
| | BHC |

TYPE FLUID IN HOLE: GEL/LIGNO.
DENSITY: 9.7 LB/G
VISCOSITY: 45 S
PH: 9.0
FLUID LOSS: 5.6 C3
SOURCE OF SAMPLE: FLOWLINE
RM: 3.016 OHMM AT 52.0 DEGF
RMF: 2.720 OHMM AT 52.0 DEGF
RMC: 3.720 OHMM AT 47.0 DEGF
SOURCE RMF/RMC: MEAS/MEAS
RM AT BHT: 1.691 OHMM AT 98.0 DEGF
RMF AT BHT: 1.563 OHMM AT 98.0 DEGF
RMC AT BHT: 1.953 OHMM AT 98.0 DEGF

TIME CIRC. STOPPED: 18:56 11-28
TIME LOGGER ON BTM.: 06:45 11-29

MAX. REC. TEMP: 98.0 DEGF

LOGGING UNIT NO: 8178
LOGGING UNIT LOC.: SACRAMENTO
RECORDED BY: SUTER
WITNESSED BY: ALGER/MEYER

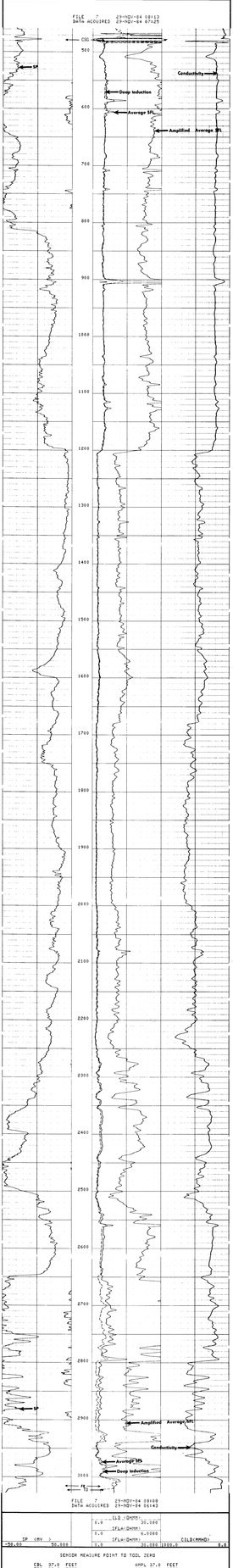
REMARKS:

SALINITY: 1,500 PPM CL-
CENTRALIZATION: RUBBER FINS AND CMEZ
REPEAT: DONE AT TOP DUE TO HOLE CONDITIONS

EQUIPMENT NUMBERS-

| | | | |
|---|---|---|---|
| DIC 1422 | DIC 1149 | IEM 686 | MCD 1567 |
| DLS 346 | DLC 1589 | DLM 393 | IDM 1839 |

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 INTERPRETATION; AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILFUL 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 OUR GENERAL TERMS AND CONDITIONS AS SET OUT IN OUR CURRENT PRICE SCHEDULE.




SENSOR MEASURE POINT TO TOOL ZERO

| | | | | | |
|---|---|---|---|---|---|
| CBL | 37.0 | FEET | AMPL | 37.0 | FEET |
| TTB | 35.5 | FEET | TTA | 36.0 | FEET |
| TT1 | 36.0 | FEET | TT2 | 37.0 | FEET |
| CALS | 36.5 | FEET | IPAT | 34.5 | FEET |
| SFL | 6.4 | FEET | ILD | 9.4 | FEET |
| ILM | 9.4 | FEET | SP | 0.0 | FEET |
| TENS | 0.0 | FEET | IPAR | 2.5 | FEET |
| MDIS | 20.8 | FEET | | | |

F=F-METER:

| NAME | VALUE | UNIT | NAME | VALUE | UNIT |
|---|---|---|---|---|---|
| WTV1 | WF1 | | BUS | 16 | |
| BSIN | 3 | US | BSEL | 255 | US |
| BTV | 1.000 | | DTOC | 0.0000 | |
| DTF | 189.000 | US/F | DTOS | 55.6000 | US/F |
| ISM | 16.0000 | OHMM | DIEC | 0.00000 | MMHO |
| FPHI | SPHI | | MIEC | 5.40000 | MMHO |
| FMUN | 1.00000 | | FDIP | 2.00000 | |
| RS | 7.87500 | IN | BHS | OPEN | |
| FW | NORM | | DIS | 0.0 | F |

TAPE NOT MADE