ON-LINE TDC
GEOSERVICES

HYDRAULIC REPORT

17/ 8/82 TIME 18:26

CAPE SORELL # 1

466579

DEPTH OF EXECUTION 9890.00 FEET
FLOW RATE 334 GPM

POWER LAW

| MUD DATA | | | |
|---|---|---|---|
| WEIGHT | 9.21 | PPG | |
| PV | 13 | CPS | |
| YP | 9.00 | LB/FT2 | |
| GEL | 5.00 | LB/100 FT2 | |
| N | .8194 | | |
| K | .1026 | LB/100 FT2 | |

| HOLES VOLUMES | | | |
|---|---|---|---|
| WITH PIPES | 679.71 | BBL | |
| WITHOUT PIPES | 815.24 | BBL | |
| ANNULAR | 567.21 | BBL | |
| INSIDE PIPES | 112.50 | BBL | |

| | FROM FEET | TO FEET | PIPE ID INCH | PIPE OD INCH | HOLE DIAM INCH | P.LOSSES PSI | H.P | TYPE | CRITICAL FLOW GPM | MUD VELOCITY FT/MN | CUTTINGS VELOCITY FT/MN |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SURF.EQPT | | | | | | 21 | 4 | | | | |
| DR.STRING | .00 | 2370.00 | 3.50 | 5.00 | | 153 | 30 | | | | |
| DR.STRING | 2370.00 | 8880.00 | 3.50 | 5.00 | | 421 | 82 | | | | |
| DR.STRING | 8880.00 | 9337.67 | 3.00 | 5.00 | | 62 | 12 | | | | |
| DR.STRING | 9337.67 | 9911.95 | 2.25 | 6.25 | | 310 | 60 | | | | |
| BIT | | | | | | 1044 | 203 | FT/S | | 356.2 | |
| ANNULUS | 9890.00 | 9315.72 | | 6.25 | 8.50 | 11 | 2 | TU | 254.0 | 246.4 | 240.4 |
| ANNULUS | 9315.72 | 9002.00 | | 5.00 | 8.50 | 2 | 0 | TU | 266.2 | 173.1 | 167.3 |
| ANNULUS | 9002.00 | 8858.05 | | 5.00 | 8.75 | 1 | 0 | TU | 276.9 | 158.6 | 152.9 |
| ANNULUS | 8858.05 | 2348.05 | | 5.00 | 8.75 | 29 | 6 | TU | 276.9 | 158.6 | 152.9 |
| ANNULUS | 2348.05 | 381.00 | | 5.00 | 8.75 | 9 | 2 | TU | 276.9 | 158.6 | 152.9 |
| ANNULUS | 381.00 | .00 | | 5.00 | 17.37 | 1 | 0 | LA | 649.2 | 29.5 | 26.3 |
| TOTAL | | | | | | 2063 | 401 | | | | |

ANNULAR PRESSURE LOSSES 51 PSI

EQUIV.CIRCULATING DENSITY 9.31 PPG
MAX DEPTH 34702.08

| MUD LAG TIMES | | |
|---|---|---|
| S -> B | 14.16 | MN |
| B -> S | 71.41 | MN |

| CUTTINGS DATA | | |
|---|---|---|
| SIZE | .10 | IN |
| DENSITY | 20.00 | PPG |
| LAG TIME | 75.13 | MN |
| MAX SLIP VELOCITY | 5.99 | FT/MN |

| BIT DATA | | |
|---|---|---|
| SIZE | 8.50 | INCH |
| NOZZLES | 14 14 0 | /32NDS |
| NOZZLES EFFICIENCY | 95 | % |
| BIT P. LOSSES | 1044 | PSI |
| H.H.P RATIO | 50.62 | % |
| BIT H.H.P | 3.581 | |
| BIT VELOCITY | 356.24 | FT/S |