

* 2/ 8/82 TIME 5:17

CAPE SORELL # 1

* DEPTH OF EXECUTION 6157.43 FEET
* FLOW RATE 597 GPM POWER LAW

* MUD DATA WEIGHT 9.25 PPG
* PV 11 CPS
* YP 9.00 LB/FT2
* GEL 2.00 LB/100 FT2
* N .6881
* K .2464 LB/100 FT2

* HOLES VOLUMES WITH PIPES 899.58 BBL
* WITHOUT PIPES 962.77 BBL
* ANNULAR 798.93 BBL
* INSIDE PIPES 100.65 BBL

| FROM | TO | PIPE ID | PIPE OD | HOLE DIAM | P. LOSSES | H.P | TYPE | CRITICAL | MUD VELOCITY | CUTTINGS VELOCITY |
|----------------|---------|---------|---------|-----------|-----------|------|------|----------|--------------|-------------------|
| FEET | FEET | INCH | INCH | INCH | PSI | | | | FT/MN | FT/MN |
| * SURF. EQPT * | | | | | | 57 | 20 | | | |
| * DR. STRING * | .00 | 5250.00 | 4.28 | 5.00 | | 359 | 125 | | | |
| * DR. STRING * | 5250.00 | 5706.90 | 3.00 | 5.00 | | 171 | 60 | | | |
| * DR. STRING * | 5706.90 | 5804.22 | 2.25 | 6.25 | | 145 | 51 | | | |
| * DR. STRING * | 5804.22 | 6185.22 | 2.81 | 7.75 | | 175 | 68 | | | |
| * BIT * | | | | | | 875 | 305 | FT/S | 325.3 | |
| * ANNULUS * | 6157.43 | 5776.43 | | 7.75 | 12.25 | 1 | 0 | TU | 563.9 | 162.5 159.0 |
| * ANNULUS * | 5776.43 | 5679.11 | | 6.25 | 12.25 | 0 | 0 | LA | 598.1 | 131.8 128.6 |
| * ANNULUS * | 5679.11 | 5222.21 | | 5.00 | 12.25 | 1 | 0 | LA | 610.2 | 117.0 113.9 |
| * ANNULUS * | 5222.21 | 4144.00 | | 5.00 | 12.25 | 3 | 1 | LA | 610.2 | 117.0 113.9 |
| * ANNULUS * | 4144.00 | 381.00 | | 5.00 | 12.35 | 9 | 3 | LA | 617.7 | 114.7 111.7 |
| * ANNULUS * | 381.00 | .00 | | 5.00 | 17.37 | 0 | 0 | LA | 1020.6 | 52.8 50.5 |
| * TOTAL * | | | | | | 1818 | 633 | | | |

* ANNULAR PRESSURE LOSSES 15 PSI

* EQUIV. CIRCULATING DENSITY 9.30 PPG
* MAX DEPTH 24798.34

* MUD LAG TIMES S -> B 7.88 MN
* B -> S 56.22 MN

* CUTTINGS DATA SIZE .19 IN
* DENSITY 20.00 PPG
* LAG TIME 57.85 MN
* MAX SLIP VELOCITY 3.58 FT/MN

* BIT DATA SIZE 12.25 INCH
* NOZZLES 16 16 16 /32NDS
* NOZZLES EFFICIENCY 95 %
* BIT P. LOSSES 875 PSI
* H.H.P RATIO 48.14 %
* BIT H.H.P 2.505
* BIT VELOCITY 325.30 FT/S