

ON-LINE TDC  
GEOSERVICES

HYDRAULIC REPORT

\* 17/ 8/82 TIME 5:15

CAPE SORELL # 1

466572

\* DEPTH OF EXECUTION 9632.74 FEET \*  
\* FLOW RATE 321 GPM POWER LAW \*

\* MUD DATA WEIGHT 9.10 PPG \*  
\* PV 12 CPS \*  
\* YP 9.00 LB/FT2 \*  
\* GEL 5.00 LB/100 FT2 \*  
\* N .0074 \*  
\* K .1041 LB/100 FT2 \*

\* HOLES VOLUMES WITH PIPES 664.68 BBL \*  
\* WITHOUT PIPES 797.18 BBL \*  
\* ANNULAR 555.40 BBL \*  
\* INSIDE PIPES 109.20 BBL \*

\* FROM TO \* PIPE \* PIPE \* HOLE \* P.LOSSES \* H.P \* TYPE \* CRITICAL \* MUD \* CUTTINGS \*  
\* ID OD DIAM \* FLOW \* VELOCITY VELOCITY \*  
\* INCH INCH INCH \* PSI \* GPM \* FT/MN FT/MN \*

\*SURF.EQPT\* \* 19 4 \*  
\*DR.STRING\* .00 2100.00 \* 3.50 5.00 \* 124 23 \*  
\*DR.STRING\* 2100.00 8610.00 \* 3.50 5.00 \* 303 72 \*  
\*DR.STRING\* 8610.00 9066.89 \* 3.00 5.00 \* 56 11 \*  
\*DR.STRING\* 9066.89 9641.17 \* 2.25 6.25 \* 282 53 \*  
\*BIT \* 955 179 \* FT/S \* 342.6 \*  
\*ANNULUS \* 9632.74 9058.46 \* 6.25 8.50 \* 10 2 \* TU 246.9 \* 237.0 230.8 \*  
\*ANNULUS \* 9058.46 9002.00 \* 5.00 8.50 \* 0 0 \* TU 260.6 \* 166.4 160.6 \*  
\*ANNULUS \* 9002.00 8601.57 \* 5.00 8.75 \* 2 0 \* TU 271.5 \* 152.5 146.7 \*  
\*ANNULUS \* 8601.57 2091.57 \* 5.00 8.75 \* 27 5 \* TU 271.5 \* 152.5 146.7 \*  
\*ANNULUS \* 2091.57 301.00 \* 5.00 8.75 \* 7 1 \* TU 271.5 \* 152.5 146.7 \*  
\*ANNULUS \* 301.00 .00 \* 5.00 17.37 \* 1 0 \* LA 649.6 \* 28.4 25.1 \*  
\* TOTAL \* \* 1063 349 \* \*

\*ANNULAR PRESSURE LOSSES 46 PSI \*

\*EQUIV.CIRCULATING DENSITY 9.19 PPG \*  
\* MAX DEPTH 37789.91 \*

\* MUD LAG TIMES S -> B 14.38 MN \*  
\* B -> S 72.70 MN \*

\* CUTTINGS DATA SIZE .10 IN \*  
\* DENSITY 20.00 PPG \*  
\* LAG TIME 76.74 MN \*  
\* MAX SLIP VELOCITY 6.14 FT/MN \*

\* BIT DATA SIZE 8.50 INCH \*  
\* NOZZLES 14 14 0 /32NDS \*  
\* NOZZLES EFFICIENCY 95 % \*  
\* BIT P. LOSSES 955 PSI \*  
\* H.H.P RATIO 51.24 % \*  
\* BIT H.H.P 3.149 \*  
\* BIT VELOCITY 342.61 FT/S \*