

\* 22/ 8/82 TIME 22:12

CAPE SORELL # 1

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\* DEPTH OF EXECUTION 10611.11 FEET \*  
\* FLOW RATE 334 GPM POWER LAW \*

\* MUD DATA WEIGHT 9.70 PPG \*  
\* PV 17 CPS \*  
\* YP 10.00 LB/FT2 \*  
\* GEL 3.00 LB/100 FT2 \*  
\* N .7726 \*  
\* K .1940 LB/100 FT2 \*

466610

\* HOLES VOLUMES WITH PIPES 721.37 BBL \*  
\* WITHOUT PIPES 865.85 BBL \*  
\* ANNULAR 600.31 BBL \*  
\* INSIDE PIPES 121.06 BBL \*

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

\*SURF.EQPT\* \* \* \* 23 4 \* \* \* \*  
\*DR.STRING\* .00 3090.00 \* 3.50 5.00 \* 221 43 \* \* \* \*  
\*DR.STRING\* 3090.00 9600.00 \* 3.50 5.00 \* 465 91 \* \* \* \*  
\*DR.STRING\* 9600.00 10057.67 \* 3.00 5.00 \* 60 13 \* \* \* \*  
\*DR.STRING\* 10057.67 10631.95 \* 2.25 6.25 \* 342 67 \* \* \* \*  
\*BIT \* \* \* \* 1484 289 \* FT/S \* 413.9 \* \*  
\*ANNULUS \* 10611.11 10036.03 \* 6.25 8.50 \* 16 3 \* LA 330.2 \* 246.8 241.0 \*  
\*ANNULUS \* 10036.03 9579.16 \* 5.00 8.50 \* 5 1 \* LA 364.6 \* 173.4 170.0 \*  
\*ANNULUS \* 9579.16 9002.00 \* 5.00 8.50 \* 6 1 \* LA 364.6 \* 173.4 170.0 \*  
\*ANNULUS \* 9002.00 3069.16 \* 5.00 8.75 \* 55 11 \* LA 300.9 \* 150.9 155.6 \*  
\*ANNULUS \* 3069.16 301.00 \* 5.00 8.75 \* 25 5 \* LA 300.9 \* 150.9 155.6 \*  
\*ANNULUS \* 301.00 .00 \* 5.00 17.37 \* 0 0 \* LA 964.8 \* 29.6 27.5 \*  
\* TOTAL \* \* \* 2710 520 \* \* \* \*

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\*ANNULAR PRESSURE LOSSES 107 PSI \*

\*EQUIV.CIRCULATING DENSITY 2.89 PPG \*  
\* MAX DEPTH 20005.63 \*

\* MUD LAG TIMES S -> B 15.21 MN \*  
\* B -> S 75.44 MN \*

\* CUTTINGS DATA SIZE .10 IN \*  
\* DENSITY 20.00 PPG \*  
\* LAG TIME 77.73 MN \*  
\* MAX SLIP VELOCITY 5.01 FT/MN \*

\* BIT DATA SIZE 8.50 INCH \*  
\* NOZZLES 13 13 0 /32NDS \*  
\* NOZZLES EFFICIENCY 95 % \*  
\* BIT P. LOSSES 1484 PSI \*  
\* H.H.P RATIO 54.70 % \*  
\* BIT H.H.P 5.101 \*  
\* BIT VELOCITY 413.89 FT/S \*

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