

\* 7/ 7/82 TIME 21:43

CAPE SORELL # 1

46630S

\*\*\*\*\*  
\* DEPTH OF EXECUTION 720.00 FEET \*  
\* FLOW RATE 700 GPM \*  
\* BINGHAM \*

\* MUD DATA \*  
\* WEIGHT 8.57 PPG \*  
\* PV 9 CPS \*  
\* YP 10.00 LB/FT2 \*  
\* GEL 2.00 LB/100 FT2 \*  
\* N .6130 \*  
\* K .3717 LB/100 FT2 \*

\* HOLES VOLUMES \*  
\* WITH PIPES 341.84 BBL \*  
\* WITHOUT PIPES 362.02 BBL \*  
\* ANNULAR 331.35 BBL \*  
\* INSIDE PIPES 10.49 BBL \*

FROM	TO	PIPE ID	PIPE OD	HOLE DIAM	P.LOSSES	H.P	TYPE	CRITICAL	MUD FLOW	CUTTINGS VELOCITY
FEET	FEET	INCH	INCH	INCH	PSI				GPM	FT/MN
*SURF. EGPT*						73	30			
*DR. STRING*	.00	456.89	4.00	5.00		55	23			
*DR. STRING*	456.89	843.94	3.00	7.75		187	76			
*BIT						2557	1044	FT/S		577.9
*ANNULUS	720.00	720.00		7.75	12.25	0	0	LA	841.4	198.6
*ANNULUS	720.00	381.00		7.75	28.00	1	0	LA	6405.8	23.7
*ANNULUS	381.00	332.95		7.75	16.75	0	0	LA	1989.9	77.8
*ANNULUS	332.95	.00		5.00	16.75	1	0	LA	2287.3	67.1
* TOTAL*						2074	1174			

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\* ANNULAR PRESSURE LOSSES 2 PSI \*

\* EQUIV. CIRCULATING DENSITY 8.61 PPG \*  
\* MAX DEPTH 3666.32 \*

\* MUD LAG TIMES \*  
\* S -> B .63 MN \*  
\* B -> S 19.88 MN \*

\* CUTTINGS DATA \*  
\* SIZE .10 IN \*  
\* DENSITY 20.00 PPG \*  
\* LAG TIME 21.02 MN \*  
\* MAX SLIP VELOCITY 3.74 FT/MN \*

\* BIT DATA \*  
\* SIZE 12.25 INCH \*  
\* NOZZLES 13 13 13 /32NDS \*  
\* NOZZLES EFFICIENCY 95 % \*  
\* BIT P. LOSSES 2557 PSI \*  
\* H.H.P RATIO 88.95 % \*  
\* BIT H.H.P 8.859 \*  
\* BIT VELOCITY 577.93 FT/S \*