

\* 31/ 7/82 TIME 7: 2

CAPE SORELL # 1

466441

\* DEPTH OF EXECUTION 5345.66 FEET  
\* FLOW RATE 583 GPM

POWER LAW

\* MUD DATA WEIGHT 9.31 PPG  
\* PV 11 CPS  
\* YP 10.00 LB/FT2  
\* GEL 4.00 LB/100 FT2  
\* N .7199  
\* K .1908 LB/100 FT2

\* HOLES VOLUMES WITH PIPES 706.50 BBL  
\* WITHOUT PIPES 844.44 BBL  
\* ANNULAR 700.31 BBL  
\* INSIDE PIPES 86.18 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*					55	19				
*DR. STRING*	.00	4435.56	4.28	5.00	292	99				
*DR. STRING*	4435.56	4892.46	3.00	5.00	165	56				
*DR. STRING*	4892.46	4989.78	2.25	6.25	140	48				
*DR. STRING*	4989.78	5370.78	2.81	7.75	187	64				
*BIT					839	285	FT/S		317.7	
*ANNULUS	5345.66	4964.66		7.75	12.25	1	0	TU	509.4	158.7
*ANNULUS	4964.66	4867.34		6.25	12.25	0	0	TU	534.4	128.7
*ANNULUS	4867.34	4410.44		5.00	12.25	1	0	TU	541.3	114.2
*ANNULUS	4410.44	4144.00		5.00	12.25	0	0	TU	541.3	114.2
*ANNULUS	4144.00	381.00		5.00	12.35	4	1	TU	547.7	112.8
*ANNULUS	381.00	-.00		5.00	17.37	1	0	LA	887.2	51.6
* TOTAL*					1685	573				49.0

\*ANNULAR PRESSURE LOSSES 7 PSI

\*EQUIV. CIRCULATING DENSITY 9.33 PPG  
\* MAX DEPTH 23699.39

\* MUD LAG TIMES S -> B 6.21 MN  
\* B -> S 50.46 MN

\* CUTTINGS DATA SIZE .10 IN  
\* DENSITY 20.00 PPG  
\* LAG TIME 52.16 MN  
\* MAX SLIP VELOCITY 5.17 FT/MN

\* BIT DATA SIZE 12.25 INCH  
\* NOZZLES 16 16 16 /32NDS  
\* NOZZLES EFFICIENCY 95 %  
\* BIT P. LOSSES 839 PSI  
\* H.H.P RATIO 49.79 %  
\* BIT H.H.P 2.421  
\* BIT VELOCITY 317.69 FT/S