

* 8/ 7/82 TIME 5:39

CAPE SORELL # 1

466213

* DEPTH OF EXECUTION 1119.64 FEET *
* FLOW RATE 502 GPM POWER LAW *

* MUD DATA WEIGHT 8.60 PPG *
* ----- PV 1 CPS *
* YP 2.00 LB/FT2 *
* GEL .20 LB/100 FT2 *
* N .4406 *
* K .1794 LB/100 FT2 *

* HOLES VOLUMES WITH PIPES 395.43 BBL *
* ----- WITHOUT PIPES 420.28 BBL *
* ANNULAR 379.90 BBL *
* INSIDE PIPES 15.53 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/MIN
* SURF. EQPT					32	11				
* DR. STRING	.00	240.00	4.20	5.00	9	3				
* DR. STRING	240.00	746.89	4.00	5.00	27	9				
* DR. STRING	746.89	1133.94	3.00	7.75	81	27				
* BIT					1773	602	FT/S		400.4	
* ANNULUS	1119.64	732.59	7.75	12.25	1	0	TU	240.9	150.5	150.1
* ANNULUS	732.59	720.00	5.00	12.25	0	0	TU	302.2	114.0	106.8
* ANNULUS	720.00	381.00	5.00	28.00	0	0	LA	1323.6	10.0	16.5
* ANNULUS	381.00	225.70	5.00	16.75	0	0	TU	530.8	55.0	50.1
* ANNULUS	225.70	.00	5.00	16.75	0	0	TU	530.8	55.0	50.1
* TOTAL					1923	653				

* ANNULAR PRESSURE LOSSES 1 PSI *

* EQUIV. CIRCULATING DENSITY 8.61 PPG *
* MAX DEPTH 18007.06 *

* MUD LAG TIMES S -> B 1.12 MN *
* ----- B -> S 27.42 MN *

* CUTTINGS DATA SIZE .10 IN *
* ----- DENSITY 20.00 PPG *
* LAG TIME 30.87 MN *
* MAX SLIP VELOCITY 0.35 FT/MIN *

* BIT DATA SIZE 12.25 INCH *
* ----- NOZZLES 13 13 13 /32NDS *
* NOZZLES EFFICIENCY 75 % *
* BIT P. LOSSES 1773 PSI *
* H.H.P RATIO 92.23 % *
* BIT H.H.P 5.107 *
* BIT VELOCITY 400.39 FT/S *