

* 5/ 8/82 TIME 5:19

CAPE SORELL # 1

* DEPTH OF EXECUTION 7000.64 FEET *
* FLOW RATE 542 GPM POWER LAW *

* MUD DATA WEIGHT 9.12 PPG *
* ----- PV 13 CPS *
* YP 14.00 LB/FT2 *
* GEL 5.00 LB/100 FT2 *
* N .6679 *
* K .3374 LB/100 FT2 *

* HOLES VOLUMES WITH PIPES 1016.9 BBL *
* ----- WITHOUT PIPES 1085.7 BBL *
* ANNULAR 901.37 BBL *
* INSIDE PIPES 115.57 BBL *

* 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 *	* FROM *	* TO *	* PIPE ID INCH *	* PIPE OD INCH *	* HOLE DIAM INCH *	* P.LOSSES PSI *	* H.P *	* TYPE *	* CRITICAL *	* MUD GPM *	* VELOCITY FT/MN *	* CUTTINGS VELOCITY FT/MN *
DR.STRING	.00	6090.00	4.28	5.00		358	113					
DR.STRING	6090.00	6546.90	3.00	5.00		147	47					
DR.STRING	6546.90	6644.22	2.25	6.25		125	39					
DR.STRING	6644.22	7025.22	2.81	7.75		167	53					
*BIT *						711	225	FT/S			295.4	
*ANNULUS *	7000.64	6619.64	7.75	12.25		3	1	LA		682.5	147.6	144.6
*ANNULUS *	6619.64	6522.32	6.25	12.25		1	0	LA		728.2	119.7	117.0
*ANNULUS *	6522.32	6065.42	5.00	12.25		2	1	LA		745.9	106.2	103.7
*ANNULUS *	6065.42	4144.00	5.00	12.25		8	3	LA		745.9	106.2	103.7
*ANNULUS *	4144.00	381.00	5.00	12.35		15	5	LA		755.3	104.2	101.7
*ANNULUS *	381.00	-.00	5.00	17.37		1	0	LA		1261.5	40.0	46.1
* TOTAL *						1587	502					

* ANNULAR PRESSURE LOSSES 30 PSI *

* EQUIV. CIRCULATING DENSITY 9.20 PPG *
* MAX DEPTH 31078.16 *

* MUD LAG TIMES S -> B 8.96 MN *
* ----- B -> S 69.85 MN *

* CUTTINGS DATA SIZE .10 IN *
* ----- DENSITY 20.00 PPG *
* LAG TIME 71.69 MN *
* MAX SLIP VELOCITY 3.03 FT/MN *

* BIT DATA SIZE 12.25 INCH *
* ----- NOZZLES 16 16 16 /32NBS *
* NOZZLES EFFICIENCY 95 % *
* BIT P. LOSSES 711 PSI *
* H.H.P. RATIO 44.79 % *
* BIT H.H.P. 1.907 *
* BIT VELOCITY 295.41 FT/S *
