

* 16/ 7/82 TIME 5:39

CAPE SORELL # 1

466372

* DEPTH OF EXECUTION 4158.00 FEET *
* FLOW RATE 473 GPM POWER LAW *

* MUD DATA WEIGHT 8.60 PPG *
* PV 3 CPS *
* YP 1.00 LB/FT2 *
* GEL .10 LB/100 FT2 *
* N .0231 *
* K .0230 LB/100 FT2 *

* HOLES VOLUMES WITH PIPES 808.53 BBL *
* WITHOUT PIPES 860.41 BBL *
* ANNULAR 743.43 BBL *
* INSIDE PIPES 65.15 BBL *

FROM	TO	PIPE ID	PIPE OD	HOLE DIAM	P.LOSSES	H.P	TYPE	CRITICAL	MUD	CUTTINGS
FEET	FEET	INCH	INCH	INCH	PSI				GPM	FT/MIN
SURF.EGPT						27	8			
DR.STRING	.00	3240.00	4.28	5.00		106	29			
DR.STRING	3240.00	3696.89	3.00	5.00		82	23			
DR.STRING	3696.89	4166.78	2.81	7.75		115	32			
*BIT						1170	323	FT/S		390.2
*ANNULUS	4158.00	3688.11		7.75	12.25	1	0	TU	128.2	128.7 119.1
*ANNULUS	3688.11	3231.22		5.00	12.25	0	0	TU	127.6	92.6 83.5
*ANNULUS	3231.22	1393.00		5.00	12.25	1	0	TU	127.6	92.6 83.5
*ANNULUS	1393.00	381.00		5.00	18.75	0	0	TU	213.0	35.5 27.1
*ANNULUS	381.00	-.00		5.00	17.37	0	0	TU	194.4	41.8 33.4
* TOTAL*						1502	414			

*ANNULAR PRESSURE LOSSES 2 PSI *

*EQUIV.CIRCULATING DENSITY 8.61 PPG *
* MAX DEPTH 36721.44 *

* MUD LAG TIMES S -> D 5.79 MN *
* B -> S 66.87 MN *

* CUTTINGS DATA SIZE .10 IN *
* DENSITY 20.00 PPG *
* LAG TIME 88.15 MN *
* MAX SLIP VELOCITY 9.60 FT/MIN *

* BIT DATA SIZE 12.25 INCH *
* NOZZLES 13 13 13 /32NDS *
* NOZZLES EFFICIENCY 95 % *
* BIT P. LOSSES 1170 PSI *
* H.H.P RATIO 77.89 % *
* BIT H.H.P 2.736 *
* BIT VELOCITY 390.18 FT/S *