

* 15/ 8/82 TIME 20:10

CAPE SOPELL # 1

466557

* DEPTH OF EXECUTION 9233.03 FEET

* FLOW RATE 351 GPM

POWER LAW

* MUD DATA WEIGHT 8.92 PPG

* PV 20 CPS

* YP 10.00 LB/FT2

* GEL 6.00 LB/100 FT2

* N .0745

* K .1027 LB/100 FT2

* HOLES VOLUMES WITH PIPES 641.78 BBL

* WITHOUT PIPES 769.13 BBL

* ANNULAR 537.19 BBL

* INSIDE PIPES 104.59 BBL

FROM	TO	PIPE ID	PIPE OD	HOLE DIAM	*P.LOSSES	H.P	*TYPE	CRITICAL	MUD	CUTTINGS
FEET	FEET	INCH	INCH	INCH	PSI				VELOCITY	VELOCITY
									FT/MN	FT/MN

SURF.COPT					24	5				
DR.STRING	.00	1710.00	3.50	5.00	129	26				
DR.STRING	1710.00	8220.00	3.50	5.00	492	101				
DR.STRING	8220.00	8677.67	3.00	5.00	72	15				
DR.STRING	8677.67	9242.05	2.25	6.25	355	73				
*BIT					671	138	FT/S		290.1	
*ANNULUS	9233.03	9002.00	6.25	8.50	5	1	TU	333.9	259.5	253.9
*ANNULUS	9002.00	8668.65	6.25	8.75	5	1	TU	347.6	229.7	224.1
*ANNULUS	8668.65	8210.98	5.00	8.75	2	0	TU	348.8	167.0	161.7
*ANNULUS	8210.98	1700.98	5.00	8.75	34	7	TU	348.8	167.0	161.7
*ANNULUS	1700.98	381.00	5.00	8.75	7	1	TU	348.8	167.0	161.7
*ANNULUS	381.00	.00	5.00	17.37	1	0	LA	748.9	31.1	27.9
* TOTAL*					1798	369				

*ANNULAR PRESSURE LOSSES 54 PSI

*EQUIV.CIRCULATING DENSITY 9.03 PPG

* MAX DEPTH 33393.12

* MUD LAG TIMES S -> B 12.50 MN

* B -> S 64.20 MN

* CUTTINGS DATA SIZE .10 IN

* DENSITY 20.00 PPG

* LAG TIME 67.30 MN

* MAX SLIP VELOCITY 5.60 FT/MN

* BIT DATA SIZE 8.50 INCH

* NOZZLES 13 13 13 /32NDS

* NOZZLES EFFICIENCY 95 %

* BIT P. LOSSES 671 PSI

* H.H.P RATIO 37.33 %

* BIT H.H.P 2.424

* BIT VELOCITY 290.14 FT/S