

* 15/ 7/82 TIME 5:53

CAPE SORRELL # 1

466865

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*****
* DEPTH OF EXECUTION 3517.10 FEET
* FLOW RATE 501 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 719.53 BBL
* ----- WITHOUT PIPES 766.90 BBL
* ANNULAR 665.56 BBL
* INSIDE PIPES 53.96 BBL
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FROM	TO	PIPE ID	PIPE OD	HOLE DIAM	P. LOSSES	H.P	TYPE	CRITICAL	MUD	CUTTINGS
FEET	FEET	INCH	INCH	INCH	PSI				FT/MN	FT/MN
SURF. EGPT					30	9				
DR. STRING	.00	2610.00	4.28	5.00	95	28				
DR. STRING	2610.00	3066.89	3.00	5.00	91	27				
DR. STRING	3066.89	3536.78	2.81	7.75	127	37				
*BIT					1313	384	FT/S		413.4	
*ANNULUS	3517.10	3047.21		7.75	12.25	1	0	TU	128.2	136.4
*ANNULUS	3047.21	2590.32		5.00	12.25	0	0	TU	127.6	98.1
*ANNULUS	2590.32	1393.00		5.00	12.25	1	0	TU	127.6	98.1
*ANNULUS	1393.00	381.00		5.00	18.75	0	0	TU	213.0	37.6
*ANNULUS	381.00	.00		5.00	17.37	0	0	TU	194.4	44.3
* TOTAL					1658	484				35.8

*ANNULAR PRESSURE LOSSES 2 PSI

*EQUIV. CIRCULATING DENSITY 8.61 PPG
 * MAX DEPTH 28569.37

* MUD LAG TIMES S -> B 4.53 MN
 * B -> S 55.83 MN

* CUTTINGS DATA SIZE .10 IN
 * DENSITY 29.00 PPG
 * LAG TIME 67.57 MN
 * MAX SLIP VELOCITY 9.64 FT/MN

* BIT DATA SIZE 12.25 INCH
 * NOZZLES 13 13 13 /32NDS
 * NOZZLES EFFICIENCY 95 %
 * BIT P. LOSSES 1313 PSI
 * H.H.P. RATIO 79.17 %
 * BIT H.H.P. 3.255
 * BIT VELOCITY 413.41 FT/S