

ON-LINE TDC
GEOSSERVICES

HYDRAULIC REPORT

CAPE SORELL # 1

466629

* 26/ 8/82 TIME 1: 3

* DEPTH OF EXECUTION 11050.66 FEET POWER LAW *
* FLOW RATE 330 GPM *

* MUD DATA WEIGHT 9.60 PPG *
* PV 17 CPS *
* YP 11.00 LB/FT2 *
* GEL 3.00 LB/100 FT2 *
* N .7485 *
* K .2340 LB/100 FT2 *

* HOLES VOLUMES WITH PIPES 746.55 BBL *
* WITHOUT PIPES 896.70 BBL *
* ANNULAR 620.43 BBL *
* INSIDE PIPES 126.06 BBL *

* FROM	TO	* PIPE ID	* PIPE OD	* HOLE DIA	* P.LOSSES	* H.P.	* TYPE	* CRITICAL	* MUD FLOW	* CUTTINGS VELOCITY
FEET	FEET	INCH	INCH	INCH	PSI				GPM	FT/MN
SURF.EGPT					22	4	*			
DR.STRING	.00	3510.00	3.50	5.00	243	47	*			
DR.STRING	3510.00	10020.00	3.50	5.00	451	87	*			
DR.STRING	10020.00	10477.67	3.00	5.00	66	13	*			
DR.STRING	10477.67	11051.95	2.25	6.25	331	64	*			
*BIT					1432	276	FT/S		408.7	
*ANNULUS	11050.66	10476.38		6.25	8.50	16	3	LA	358.8	243.7
*ANNULUS	10476.38	10010.71		5.00	8.50	5	1	LA	392.2	171.2
*ANNULUS	10010.71	9002.00		5.00	8.50	12	2	LA	392.2	171.2
*ANNULUS	9002.00	3500.71		5.00	8.75	54	10	LA	410.7	156.9
*ANNULUS	3500.71	381.00		5.00	8.75	31	6	LA	410.7	156.9
*ANNULUS	381.00	.00		5.00	17.37	0	0	LA	1000.0	29.2
* TOTAL					2664	513	*			

* ANNULAR PRESSURE LOSSES 110 PSI *

* EQUIV.CIRCULATING DENSITY 9.61 PPG *
* MAX DEPTH 30454.07 *

* MUD LAG TIMES S -> B 16.84 MN *
* B -> S 70.97 MN *

* CUTTINGS DATA SIZE .10 IN *
* DENSITY 20.00 PPG *
* LAG TIME 81.19 MN *
* MAX SLIP VELOCITY 3.64 FT/MN *

* BIT DATA SIZE 8.50 INCH *
* NOZZLES 13 13 0 /32NDS *
* NOZZLES EFFICIENCY 95 % *
* BIT P. LOSSES 1432 PSI *
* H.H.P RATIO 53.77 % *
* BIT H.H.P 4.060 *
* BIT VELOCITY 408.60 FT/S *