

OFF LINE 10L  
GEOSERVICES

HYDRAULIC REPORT

\* 24/ 8/82 TIME 5:38

CAPE SORELL # 1

\* DEPTH OF EXECUTION 10012.52 FEET \*  
\* FLOW RATE 330 GPM POWER LAW \*

\* MUD DATA WEIGHT 9.66 PPG \*  
\* ----- PV 17 CPS \*  
\* YP 12.00 LB/FT2 \*  
\* GEL 4.00 LB/100 FT2 \*  
\* N .7405 \*  
\* K .2340 LB/100 FT2 \*

\* HOLES VOLUMES WITH PIPES 732.76 BBL \*  
\* ----- WITHOUT PIPES 877.90 BBL \*  
\* ANNULAR 609.55 BBL \*  
\* INSIDE PIPES 123.21 BBL \*

* FROM	TO	* PIPE ID	* PIPE OD	* HOLE DIAM	* P.LOSSES	* H.P	* TYPE	* CRITICAL	* MUD	* CUTTINGS
* FEET		* INCH	* INCH	* INCH	* PSI				* FT/MN	* FT/MN
* SURF. EGPT *					22	4				
* DR. STRING *	.00	3270.00	3.50	5.00	227	44				
* DR. STRING *	3270.00	9780.00	3.50	5.00	453	87				
* DR. STRING *	9780.00	10237.67	3.00	5.00	67	13				
* DR. STRING *	10237.67	10011.95	2.25	6.25	333	64				
* BIT *					1441	277	* FT/S		400.6	
* ANNULUS *	10012.52	10230.24		6.25	8.50	17	3 * LA	356.9	243.6	240.0
* ANNULUS *	10230.24	9780.57		5.00	8.50	6	1 * LA	390.2	171.1	160.0
* ANNULUS *	9780.57	9002.00		5.00	8.50	10	2 * LA	390.2	171.1	160.0
* ANNULUS *	9002.00	3270.57		5.00	8.75	61	12 * LA	400.6	156.8	153.7
* ANNULUS *	3270.57	301.00		5.00	8.75	31	6 * LA	400.6	156.8	153.7
* ANNULUS *	301.00	.00		5.00	17.37	1	0 * LA	1074.4	29.2	27.3
* TOTAL *					2660	513				

\* ANNULAR PRESSURE LOSSES 125 PSI \*  
\* EQUIV. CIRCULATING DENSITY 9.00 PPG \*  
\* MAX DEPTH 27795.60 \*

\* MUD LAG TIMES S -> D 15.69 MN \*  
\* ----- D -> S 77.60 MN \*

\* CUTTINGS DATA SIZE .10 IN \*  
\* ----- DENSITY 20.00 PPG \*  
\* LAG TIME 79.79 MN \*  
\* MAX SLIP VELOCITY 3.62 FT/MN \*

\* BIT DATA SIZE 8.50 INCH \*  
\* ----- NOZZLES 13 13 0 /32NDS \*  
\* NOZZLES EFFICIENCY 95 % \*  
\* BIT P. LOSSES 1441 PSI \*  
\* H.H.P RATIO 54.01 % \*  
\* BIT H.H.P 4.007 \*  
\* BIT VELOCITY 400.55 FT/S \*