ON-LINE TDC
GEOSERVICES

HYDRAULIC REPORT

466438

31/ 7/82 TIME 5:29

CAPE SORELL # 1

DEPTH OF EXECUTION 5330.00 FEET
FLOW RATE 560 GPM

POWER LAW

MUD DATA	WEIGHT	9.25 PPG
--------	PV	12 CPS
	YP	10.00 LB/FT2
	GEL	4.00 LB/100 FT2
	N	.7370
	K	.1817 LB/100 FT2
HOLES VOLUMES	WITH PIPES	703.04 BBL
----------	WITHOUT PIPES	842.16 BBL
	ANNULAR	698.13 BBL
	INSIDE PIPES	85.71 BBL

	FROM FEET	TO FEET	PIPE ID INCH	PIPE OD INCH	HOLE DIAM INCH	P.LOSSES PSI	H.P	TYPE	CRITICAL FLOW GPM	MUD VELOCITY FT/MN	CUTTINGS VELOCITY FT/MN
SURF.EQPT						52	17				
DR.STRING	.00	4405.59	4.28	5.00		274	89				
DR.STRING	4405.59	4862.49	3.00	5.00		156	51				
DR.STRING	4862.49	4957.74	2.25	6.25		129	42				
DR.STRING	4957.74	5347.74	2.81	7.75		181	59				
BIT						1314	429	FT/S		398.7	
ANNULUS	5330.00	4940.00		7.75	12.25	1	0	TU	519.5	152.5	148.7
ANNULUS	4940.00	4844.75		6.25	12.25	0	0	TU	541.7	123.7	120.2
ANNULUS	4844.75	4387.85		5.00	12.25	0	0	TU	546.5	109.7	106.5
ANNULUS	4387.85	4144.00		5.00	12.25	0	0	TU	546.5	109.7	106.5
ANNULUS	4144.00	381.00		5.00	12.35	4	1	TU	552.9	107.6	104.4
ANNULUS	381.00	.00		5.00	17.37	1	0	LA	805.0	49.6	47.0
TOTAL						2111	690				

ANNULAR PRESSURE LOSSES 6 PSI

EQUIV.CIRCULATING DENSITY 9.28 PPG
MAX DEPTH 21363.32

MUD LAG TIMES	S -> B	6.43 MN
----------	B -> S	52.36 MN
CUTTINGS DATA	SIZE	.10 IN
----------	DENSITY	20.00 PPG
	LAG TIME	54.17 MN
	MAX SLIP VELOCITY	3.79 FT/MN
BIT DATA	SIZE	12.25 INCH
--------	NOZZLES	14 14 14 /32NDS
	NOZZLES EFFICIENCY	95 %
	BIT P. LOSSES	1314 PSI
	H.H.P RATIO	62.24 %
	BIT H.H.P	3.642
	BIT VELOCITY	398.65 FT/S