ON-LINE TDC
GEOSERVICES

HYDRAULIC REPORT

466414

27/ 7/82 TIME 3:34

CAPE SORELL # 1

DEPTH OF EXECUTION 4329.67 FEET
FLOW RATE 261 GPM

POWER LAW

MUD DATA	WEIGHT	9.00 PPG
--------	PV	11 CPS
	YP	5.00 LB/FT2
	GEL	3.00 LB/100 FT2
	N	.8845
	K	.0523 LB/100 FT2
HOLES VOLUMES	WITH PIPES	645.13 BBL
----------	WITHOUT PIPES	696.34 BBL
	ANNULAR	577.01 BBL
	INSIDE PIPES	68.11 BBL

	FROM	TO	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						13	2				
DR.STRING	.00	3420.00	4.28	5.00		52	8				
DR.STRING	3420.00	3876.90	3.00	5.00		30	6				
DR.STRING	3876.90	3972.15	2.25	6.25		31	5				
DR.STRING	3972.15	4350.15	2.81	7.75		43	6				
BIT						513	78	FT/S		252.5	
ANNULUS	4329.67	4144.00		7.75	12.25	1	0	LA	296.7	71.0	64.6
ANNULUS	4144.00	3951.67		7.75	12.35	1	0	LA	299.5	69.1	62.8
ANNULUS	3951.67	3856.42		6.25	12.35	0	0	LA	293.8	56.3	50.1
ANNULUS	3856.42	3399.52		5.00	12.35	1	0	LA	284.9	50.1	44.0
ANNULUS	3399.52	381.00		5.00	12.35	5	1	LA	284.9	50.1	44.0
ANNULUS	381.00	.00		5.00	17.37	0	0	LA	409.2	23.1	17.2
TOTAL						696	106				

ANNULAR PRESSURE LOSSES 7 PSI

EQUIV.CIRCULATING DENSITY 9.03 PPG
MAX DEPTH 01615.50

MUD LAG TIMES	S -> B	10.98 MN
----------	B -> S	92.99 MN
CUTTINGS DATA	SIZE	.10 IN
----------	DENSITY	20.00 PPG
	LAG TIME	109.0 MN
	MAX SLIP VELOCITY	6.34 FT/MN
BIT DATA	SIZE	12.25 INCH
--------	NOZZLES	12 12 12 /32NDS
	NOZZLES EFFICIENCY	95 %
	BIT P. LOSSES	513 PSI
	H.H.P RATIO	73.69 %
	BIT H.H.P	.661
	BIT VELOCITY	252.51 FT/S