ON-LINE TDC
GEOSERVICES HYDRAULIC REPORT

466412

27/ 7/82 TIME 5:28 CAPE SORELL # 1

DEPTH OF EXECUTION 4420.00 FEET
FLOW RATE 520 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	657.70 BBL
----------	WITHOUT PIPES	709.50 BBL
	ANNULAR	587.99 BBL
	INSIDE PIPES	69.71 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						43	13				
DR.STRING	.00	3510.00	4.28	5.00		183	56				
DR.STRING	3510.00	3966.90	3.00	5.00		131	40				
DR.STRING	3966.90	4062.15	2.25	6.25		108	33				
DR.STRING	4062.15	4440.15	2.81	7.75		147	45				
BIT						2041	619	FT/S		503.9	
ANNULUS	4420.00	4144.00		7.75	12.25	1	0	TU	296.7	141.6	135.1
ANNULUS	4144.00	4042.00		7.75	12.35	0	0	TU	299.5	137.8	131.3
ANNULUS	4042.00	3946.75		6.25	12.35	0	0	TU	293.8	112.3	106.9
ANNULUS	3946.75	3489.85		5.00	12.35	0	0	TU	284.9	99.9	93.6
ANNULUS	3489.85	381.00		5.00	12.35	3	1	TU	284.9	99.9	93.6
ANNULUS	381.00	.00		5.00	17.37	0	0	TU	409.2	46.0	40.0
TOTAL						2659	807				

ANNULAR PRESSURE LOSSES 4 PSI

EQUIV.CIRCULATING DENSITY 9.02 PPG
MAX DEPTH 16081.10

MUD LAG TIMES	S -> B	5.63 MN
----------	B -> S	47.49 MN

CUTTINGS DATA	SIZE	.10 IN
----------	DENSITY	20.00 PPG
	LAG TIME	51.31 MN
	MAX SLIP VELOCITY	6.51 FT/MN

BIT DATA	SIZE	12.25 INCH
--------	NOZZLES	12 12 12 /32NDS
	NOZZLES EFFICIENCY	95 %
	BIT P. LOSSES	2041 PSI
	H.H.P RATIO	76.77 %
	BIT H.H.P	5.254
	BIT VELOCITY	503.85 FT/S