

ON-LINE TDC
GEOSERVICES

HYDRAULIC REPORT

* 21/ 8/82 TIME 5:31

CAPE SORELL # 1

466599

* DEPTH OF EXECUTION 10304.89 FEET *
* FLOW RATE 317 GPM POWER LAW *

* MUD DATA WEIGHT 9.52 PPG *
* ----- PV 10 CPS *
* YP 10.00 LB/FT2 *
* GEL 3.00 LB/100 FT2 *
* N .7024 *
* K .1900 LB/100 FT2 *

* HOLES VOLUMES WITH PIPES 703.75 BBL *
* ----- WITHOUT PIPES 844.36 BBL *
* ANNULAR 506.25 BBL *
* INSIDE PIPES 117.49 BBL *

* * FROM TO * PIPE * PIPE * HOLE * P.LOSSES* H.P * TYPE* CRITICAL * MUD * CUTTINGS *
* * * ID OD DIAM * * FLOW * VELOCITY VELOCITY *
* * FEET * INCH INCH INCH * PSI * * GPM * FT/MN FT/MN *

SURF.EGPT * * * 21 4 * * *
DR.STRING .00 2790.00 * 3.50 5.00 * 100 33 * * *
DR.STRING 2790.00 9300.00 * 3.50 5.00 * 420 70 * * *
DR.STRING 9300.00 9757.67 * 3.00 5.00 * 62 11 * * *
DR.STRING 9757.67 10331.95 * 2.25 6.25 * 309 57 * * *
*BIT * * * 972 100 * FT/S * 330.1 *
*ANNULUS * 10304.89 9730.61 * 6.25 8.50 * 16 3 * LA 352.4 * 233.8 230.1 *
*ANNULUS * 9730.61 9272.94 * 5.00 8.50 * 5 1 * LA 377.8 * 164.2 160.9 *
*ANNULUS * 9272.94 9002.00 * 5.00 8.50 * 3 1 * LA 377.8 * 164.2 160.9 *
*ANNULUS * 9002.00 2762.94 * 5.00 8.75 * 57 11 * LA 394.4 * 150.5 147.3 *
*ANNULUS * 2762.94 301.00 * 5.00 8.75 * 22 4 * LA 394.4 * 150.5 147.3 *
*ANNULUS * 301.00 .00 * 5.00 17.37 * 0 0 * LA 903.3 * 20.0 25.9 *
* TOTAL * * * 2066 302 * * *

*ANNULAR PRESSURE LOSSES 102 PSI *

*EQUIV.CIRCULATING DENSITY 9.71 PPG *
* MAX DEPTH 35105.33 *

* MUD LAG TIMES S -> B 15.59 MN *
* ----- B -> S 77.76 MN *

* CUTTINGS DATA SIZE .10 IN *
* ----- DENSITY 20.00 PPG *
* LAG TIME 00.20 MN *
* MAX SLIP VELOCITY 3.73 FT/MN *

* BIT DATA SIZE 0.50 INCH *
* ----- NOZZLES 14 14 0 /32NDS *
* NOZZLES EFFICIENCY 95 % *
* BIT P. LOSSES 272 PSI *
* H.H.P RATIO 47.05 % *
* BIT H.H.P 3.165 *
* BIT VELOCITY 330.11 FT/S *