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\* 277 7782 TIME 5:34 CAPE SORRELL # 1  
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\* DEPTH OF EXECUTION 4329.67 FEET  
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\* 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

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\* 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. COPT *												
* DR. STRING *	.00	3420.00	4.20	5.00		52	8					
* DR. STRING *	3420.00	3076.90	3.00	5.00		30	6					
* DR. STRING *	3076.90	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	293.0	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	301.00	5.00	12.35		5	1	LA	284.9	50.1	44.0	
* ANNULUS	301.00	.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 81615.50

\* 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