AMOCO AUST 5 Oct 95 Tijana No 1 Date : Time : 3[illegible]

329340 Core #2.

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	24.00	cP
YIELD POINT	14.00	lb/cft^2
POWER LAW k	.4863	
POWER LAW n	.7063	
DEPTH	2788.60	m (9149')
VERTICAL DEPTH	2788.47	m
DEPTH OF RETURNS	2788.50	m
CUTTINGS BULK DENSITY	2.10	spc grv
MUD DENSITY	9.34	lb/gal
ACTIVE SURFACE MUD VOLUME	298	bbl
FLOW RATE	250	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	500	psi
PUMP gal/stk	4.96	gal/stk
BIT NOZZLES	19, 19, 19	

CALCULATED RESULTS:

FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.00	104.55	104.55	18.750/ 5.000	18.8	172.9	LAMINAR	.1
104.55	1651.4	1546.9	12.347/ 5.000	48.1	246.0	LAMINAR	8.7
1651.4	2474.9	823.47	12.250/ 5.000	49.0	247.9	LAMINAR	4.8
2474.7	2642.3	167.38	12.250/ 5.000	49.0	247.9	LAMINAR	1.0
2642.0	2788.6	146.35	12.250/ 8.000	71.2	334.2	LAMINAR	2.7

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.250	6.375	5.000	4.276
12.250	6.375	5.000	3.000
12.250	8.000	8.000	2.875

MUD HYDROSTATIC	9.34 lb/gal		
FLOW CONTRIBUTION	.04 lb/gal		
CUTTINGS CONTRIBUTION	.00 lb/gal		
EQUIVALENT CIRCULATING DENSITY	9.38 lb/gal		
SURFACE PRESSURE LOSS	8 psi	NOZZLE VELOCITY	96.6 ft/sec
PIPEBORE PRESSURE LOSS	299 psi	HYDRAULIC POWER	11.3 hp
ANNULAR PRESSURE LOSS	17 psi	JET IMPACT FORCE	116.7 lbs
BIT PRESSURE LOSS	78 psi	% OF PRESS LOSS AT BIT	19
TOTAL CALC. PRESS LOSS	403 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 50 s.p.m.	
1) Pipe Capacity	6420	153	1294	25.7	
2) Pipe Displacement	3947	94	796	15.8	
3) Total Annulus	48671	1159	9813	194.7	<- LAG
4) Mud in active pits	12495	298	2519	50.0	
Circulation (1) + (3)	55091	1312	11107	220.4	
Hole Volume (1)+(2)+(3)	59038	1406	11903	236.2	
Total Mud Circulation	67586	1609	13626	270.3	
HOLE OUT OF GAUGE:					
CIRCULATION CORRECTION FACTOR =	1.0564				
Corrected Annulus	51778	1233	10439	207.1	<- LAG
Corrected Hole	62145	1480	12529	248.6