

CASING AND CEMENTING REPORT

WELL NAME	Para et al Netla	CASING TYPE	Intermediate
LOCATION	M-23	DATE	Dec. 30, 1998
SUPERVISOR	DAVE WILSON	HOLE SIZE(mm)	222
CEMENTERS	NOWSCO	T.D. (mKB)	1889

CASING

(as run in the hole - from the bottom, not including marker jts)

# JOINTS	O.D.	kg/m	GRADE	COUPLING	RGE	MAKE	LENGTH (m)
142	177.8	34.26	J-55	8 rd	2 & 3	IPSCO	1889.25
						GUIDE SHOE	0.35
						FLOAT COLLAR	0.35
						STAGE COLLAR	
						MARKER JOINT	
						MARKER JOINT	
						TOTAL ON HOOK	1889.95
						Stick Up	0.95
						LANDED AT	1889.00
						Top of Float Collar	1874.71
						Top of Stage Collar	
						Top of Marker Jt #1	
						Top of Marker Jt #2	
						Joints Out	198.57
						Total Casing on Location	2087.82
						Cut Off Length	

CASING BOWL		ELEVATIONS	
MAKE		K.B. Elev.	278.25
TYPE		GROUND Elev.	273.10
SIZE/RATING		KB-GRD	5.15
SER #		KB-CBF	5.55

SCRATCHERS & STOP RINGS			
Type and Total No. Run:			
Intervals Scratched:			

CENTRALIZERS			
Type and Total No. Run:	Bow Spring	25	
Joint #'s Centralized:	1,2,4,7 then every 7th joint to 450m		
(& Where Placed)			
Stage Tool/ECP			

CEMENT

ITEM	Tonnes	Class	Type	Additives	Kg/m3	Vol	Rate
Pre-Flush			Diesel		900	3m3	1m3/min
			H2O	Nowflush	1000	3m3	1m3/min
Filler	15	"G"	1/1/02	.1 %R-6	1683	14.04	1m3/min
				.5% T-10			
Tail-in	24	"G"	0-1-0	.2 % R-6	1901	18.20	.7m3/min
				.5 % T-10			
Displacement			INVERT		1000	38.50	1.03m3/min

CEMENTING

Start Mix Time (hrs)	3:04	Mud Wt (kg/m3)	1000	Vol. Cmt Returns (m3)	Nil
Start Displ. Time (hrs)	3:56	Mud Vis (sec/l)	56	Vol. Lost Returns (m3)	Nil
Bump Plug Time (hrs)	4:30	YP (Pa)	1.92	Calc Cmt Top (mKB)	450
Bump Plug Press (KPa)	3600	Opn Hole Vol. (r)	24	Csg Rotated?	
Floats Held OK?	Yes	From (mKB)	450	Slips Set With (daN)	50000
Pipe Recip. Until (m3 left)	Yes	To (mKB)	1889	Cmt Bin Requested?	YES
Pipe Rot. Until (m3 left)		Cmt Head Type	Plug Loaded	Ball Nipple Welded On?	
Cement Vol. Based on?	24m3	Init St Wt (daN)	56,000	Protector Plate On?	
plus % Excess	20%	Final St Wt (daN)	50,000	Primary Seal Install.?	Yes

COMMENTS

No problems encountered while cementing well