International Well Control Forum

Surface BOP Kill Sheet - Vertical Well (Metric/Bar)

DATE : _____

NAME : _____

FORMATION STRENGTH DATA:

SURFACE LEAK -OFF PRESSURE FROM FORMATION STRENGTH TEST **(A)** bar

DRILLING FLUID DENSITY AT TEST **(B)** kg/l

MAX. ALLOWABLE DRILLING FLUID DENSITY =

$$\textbf{(B)} + \frac{\textbf{(A) x 10.2}}{\text{SHOE T.V. DEPTH}} = \textbf{(C)} \text{ kg/l}$$

INITIAL MAASP =

$$\frac{(\textbf{(C)} - \text{Current Density})}{10.2} \times \text{Shoe TVD} = ____ \text{ bar}$$

PUMP NO. 1 DISPL.	PUMP NO. 2 DISPL.
l / stroke	l / stroke

	(PL) DYNAMIC **P**RESSURE **L**OSS [bar]	
SLOW PUMP RATE DATA:	PUMP NO. 1	PUMP NO. 2
SPM		
SPM		

CURRENT WELL DATA::

CURRENT DRILLING FLUID:

DENSITY _____ kg/l

CASING SHOE DATA:

SIZE _____ in

M. DEPTH _____ m

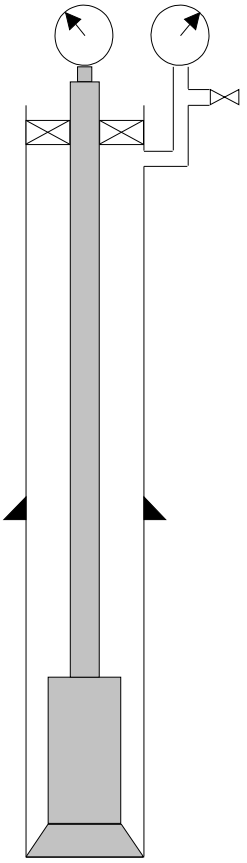
T.V. DEPTH _____ m

HOLE DATA:

SIZE _____ in

M. DEPTH _____ m

T.V. DEPTH _____ m



PRE-RECORDED VOLUME DATA:	LENGTH m	CAPACITY l / m	VOLUME litres	PUMP STROKES stks	TIME minutes
DRILL PIPE	x	=		**VOLUME / PUMP DISPLACEMENT**	**PUMP STROKES / SLOW PUMP RATE**
HEAVY WALL DRILL PIPE	x	=	+		
DRILL COLLARS	x	=	+		
DRILL STRING VOLUME			**(D)** l	**(E)** stks	min
DC x OPEN HOLE	x	=			
DP / HWDP x OPEN HOLE	x	=	+		
OPEN HOLE VOLUME			**(F)** l	stks	min
DP x CASING	x	=**(G)**	+	stks	min
TOTAL ANNULUS VOLUME		**(F+G) = (H)**	l	stks	min
TOTAL WELL SYSTEM VOLUME		**(D+H)** = (I)	l	stks	min
ACTIVE SURFACE VOLUME		**(J)**	l	stks	
TOTAL ACTIVE FLUID SYSTEM		**(I +J)**	l	stks	

Dr No SV 01/01
(BAR-102)
27-01-2000

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KICK DATA : SIDPP [ ] bar SICP [ ] bar PIT GAIN [ ] litres

KILL FLUID DENSITY KMD	CURRENT DRILLING FLUID DENSITY + $\frac{\text{SIDPP x 10.2}}{\text{TVD}}$ ..... + _____ = ... kg / l
INITIAL CIRCULATING PRESSURE ICP	DYNAMIC PRESSURE LOSS + SIDPP ..... + ... = ... bar
FINAL CIRCULATING PRESSURE FCP	$\frac{\text{KILL FLUID DENSITY}}{\text{CURRENT DRILLING FLUID DENSITY}}$ x DYNAMIC PRESSURE LOSS _____ x ..... = ... bar
(K) = ICP - FCP Bar	$\frac{(K) \times 100}{(E)}$ = Bar/100 strokes

STROKES	PRESSURE [bar]

STATIC & DYNAMIC DRILL PIPE PRESSURE [bar] ↑

STROKES →