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 =

(B) + $\frac{\textbf{(A)}}{\text{SHOE T.V. DEPTH x 0.0981}}$ = **(C)** kg/l

INITIAL MAASP =

(**(C)** - CURRENT DENSITY) x SHOE T.V. DEPTH x 0.0981

= bar

CURRENT WELL DATA::

CURRENT DRILLING FLUID:

DENSITY kg/l

CASING SHOE DATA:

SIZE in

M. DEPTH m

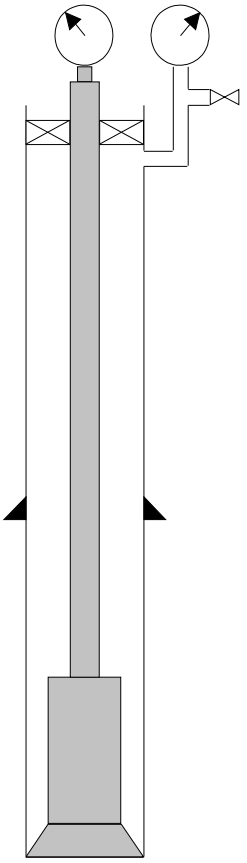
T.V. DEPTH m

HOLE DATA:

SIZE in

M. DEPTH m

T.V. DEPTH m



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		

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 SV02/01
(BAR 981)
27-Jan-2000

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DATE : _____

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

KILL FLUID DENSITY

KMD

CURRENT DRILLING FLUID DENSITY + $\frac{\text{SIDPP}}{\text{TVD x 0.0981}}$

..... + _____ = ... kg / l
x 0.0981

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

$\frac{\text{(K) x 100}}{\text{(E)}}$ = Bar/100 strokes

STROKES	PRESSURE [bar]

STATIC & DYNAMIC DRILL PIPE PRESSURE [bar] ↑

STROKES →