International Well Control Forum

Surface BOP Kill Sheet - Vertical Well (S.I. Units)

DATE : _____

NAME : _____

FORMATION STRENGTH DATA:

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

DRILLING FLUID DENSITY AT TEST **(B)** kg/m³

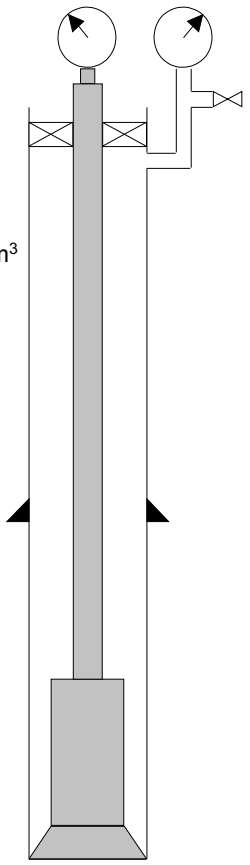
MAX. ALLOWABLE DRILLING FLUID DENSITY =

(B) + $\frac{\textbf{(A) x 102}}{\text{SHOE T.V. DEPTH}}$ = **(C)** kg/m³

INITIAL MAASP =

$\frac{\textbf{(C)} - \text{Current Density}}{102} \times \text{Shoe TVD}$ = _____ kPa

CURRENT WELL DATA:



CURRENT DRILLING FLUID:

DENSITY _____ kg/m³

CASING SHOE DATA:

SIZE _____ mm

M. DEPTH _____ m

T.V. DEPTH _____ m

HOLE DATA:

SIZE _____ mm

M. DEPTH _____ m

T.V. DEPTH _____ m

PUMP NO. 1 DISPL.	PUMP NO. 2 DISPL.
m³ / stroke	m³ / stroke

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

PRE-RECORDED VOLUME DATA:	LENGTH m	CAPACITY m³ / m	VOLUME m³	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	

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KICK DATA : SIDPP [ ] kPa SICP [ ] kPa PIT GAIN [ ] m^3

KILL FLUID DENSITY KMD	CURRENT DRILLING FLUID DENSITY + $\frac{SIDPP \times 102}{TVD}$ ..... + _____ = kg/m^3
INITIAL CIRCULATING PRESSURE ICP	DYNAMIC PRESSURE LOSS + SIDPP ..... + ... = kPa
FINAL CIRCULATING PRESSURE FCP	$\frac{\text{KILL FLUID DENSITY}}{\text{CURRENT DRILLING FLUID DENSITY}}$ x DYNAMIC PRESSURE LOSS _____ x ..... = kPa

(K) = ICP - FCP kPa | $\frac{(K) \times 100}{(E)}$ = kPa/100 strokes

STROKES	PRESSURE [kPa]

STATIC & DYNAMIC DRILL PIPE PRESSURE [kPa] ⟶

STROKES ⟶