International Well Control Forum

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

DATE : _____

NAME : _____

FORMATION STRENGTH DATA:

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

DRILLING FLUID DENS. AT TEST **(B)** kg/l

MAX. ALLOWABLE DRILLING FLUID DENSITY =

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

INITIAL MAASP =

(**(C)** - Current Density) x Shoe TVD x 0.0981

= _____ bar

CURRENT WELL DATA:

SUBSEA BOP DATA:

MARINE RISER LENGTH _____ m

CHOKELINE LENGTH _____ m

DRILLING FLUID:

DENSITY _____ kg/l

CASING SHOE DATA:

SIZE _____ in

M. DEPTH _____ m

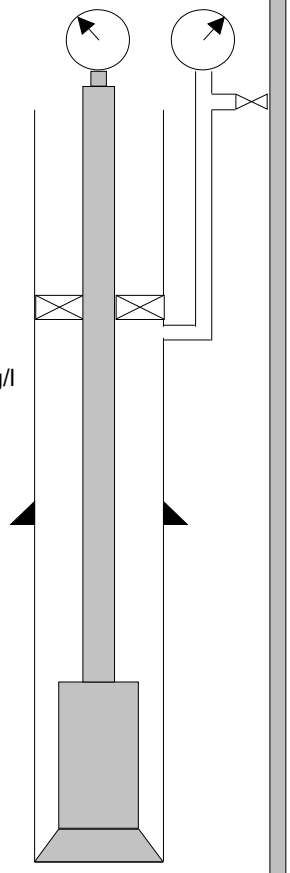
T.V. DEPTH _____ m

HOLE DATA:

SIZE _____ in

M. DEPTH _____ m

T.V. DEPTH _____ m



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

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

PRE-RECORDED VOLUME DATA:	LENGTH m	CAPACITY l / m	VOLUME litres	PUMP STROKES stks	TIME minutes
DRILL PIPE	x		=	VOLUME / PUMP DISPLACEMENT	
HEVI WALL DRILL PIPE	x		=		
DRILL COLLAR	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
CHOKELINE	x		= **(H)** +	stks	min
TOTAL ANNULUS/CHOKELINE VOLUME			**(F+G+H) = (I)** l	stks	min
TOTAL WELL SYSTEM VOLUME			**(D+I) = (J)** l	stks	min
ACTIVE SURFACE VOLUME			**(K)** l	stks	
TOTAL ACTIVE FLUID SYSTEM			**(J+K)** l	stks	
MARINE RISER x DP	x		= l	stks	

Dr No SSV 02/01
(BAR-981)
27-01-2000

International Well Control Forum

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

DATE : _____

NAME : _____

KICK DATA : SIDPP _____ bar SICP _____ bar PIT GAIN _____ litres

KILL FLUID DENSITY

KMD

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

..... + $\frac{\qquad\qquad}{\text{X 0.0981}}$ = 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

(L) = ICP - FCP = ... - ..... = ... bar

$\frac{\text{(L) x 100}}{\text{(E)}}$ = $\frac{\text{X 100}}{\qquad}$ = $\frac{\text{bar}}{\text{100 strokes}}$

INITIAL DYNAMIC CASING PRESSURE AT KILL PUMP RATE

SICP - CHOKE LINE FRICTION ..... - ..... = bar

STROKES	PRESSURE [bar]

STATIC & DYNAMIC DRILL PIPE PRESSURE [bar] ↑

STROKES →