

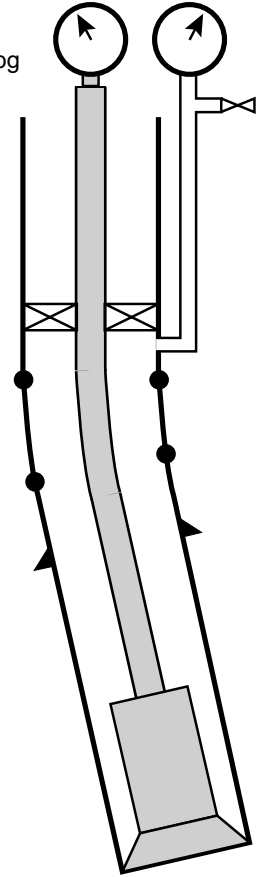
International Well Control Forum
Subsea BOP Deviated Well Kill Sheet (API Field Units)

DATE : _____

NAME : _____

FORMATION STRENGTH DATA:
 SURFACE LEAK -OFF PRESSURE FROM
 FORMATION STRENGTH TEST (A) psi
 MUD WEIGHT AT TEST (B) ppg
 MAXIMUM ALLOWABLE MUD WEIGHT =
 $(B) + \frac{(A)}{\text{SHOE T.V. DEPTH} \times 0.052} = \text{(C)} \text{ ppg}$
 INITIAL MAASP =
 $((C) - \text{CURRENT MUD WEIGHT}) \times \text{SHOE T.V. DEPTH} \times 0.052$
 = psi

CURRENT DRILLING MUD:
 WEIGHT ppg
 SUBSEA BOP DATA:
 MARINE RISER LENGTH ft
 CHOKELINE LENGTH ft
 DEVIATION DATA:
 KOP M.D. ft
 KOP T.V.D. ft
 EOB M.D. ft
 EOB T.V.D. ft



CASING SHOE DATA:
 SIZE in
 M. DEPTH ft
 T.V. DEPTH ft
 HOLE DATA:
 SIZE in
 M. DEPTH ft
 T.V. DEPTH ft

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

(PL) DYNAMIC PRESSURE LOSS [psi]						
SLOW PUMP RATE DATA:	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 ft	CAPACITY bbl s/ ft	VOLUME bbls	PUMP STROKES Strokes	TIME minutes
DP - SURFACE TO KOP	x	=		(L) <input type="text"/> stks	
DP - KOP TO EOB	x	=	+	(M) <input type="text"/> stks	
DP - EOB TO BHA	x	=	+	(N1) <input type="text"/> stks	
HEVI WALL DRILL PIPE	x	=	+	(N2) <input type="text"/> stks	
DRILL COLLAR	x	=	+	(N3) <input type="text"/> stks	
DRILL STRING VOLUME			(D) <input type="text"/> bbls	<input type="text"/> stks	<input type="text"/> min
DC x OPEN HOLE	x	=			
DP / HWDP x OPEN HOLE	x	=	+		
OPEN HOLE VOLUME			(F) <input type="text"/> bbls	<input type="text"/> stks	<input type="text"/> min
DP x CASING	x	= (G)	+	<input type="text"/> stks	<input type="text"/> min
CHOKELINE	x	= (H)	+	<input type="text"/> stks	<input type="text"/> min
TOTAL ANNULUS / CHOKELINE VOLUME		(F+G+H) = (I)	<input type="text"/> bbl s	<input type="text"/> stks	<input type="text"/> min
TOTAL WELL SYSTEM VOLUME		(D+I) = (J)	<input type="text"/> bbls	<input type="text"/> stks	<input type="text"/> min
ACTIVE SURFACE VOLUME		(K)	<input type="text"/> bbl s	<input type="text"/> stks	
TOTAL ACTIVE FLUID SYSTEM		(J+K)	<input type="text"/> bbls	<input type="text"/> stks	
MARINE RISER x DP	x	=	<input type="text"/> bbls	<input type="text"/> stks	

International Well Control Forum

Subsea BOP Kill Sheet - Deviated Well (API Field Units)

DATE : _____

NAME : _____

KICK DATA : SIDPP psi SICP psi PIT GAIN bbl

KILL MUD WEIGHT	$\text{CURRENT MUD WEIGHT} + \frac{\text{SIDPP}}{\text{TVD} \times 0.052}$
KMW + = ppg

INITIAL CIRC. PRESSURE ICP	$\text{DYNAMIC PRESSURE LOSS} + \text{SIDPP}$
 + = psi

INITIAL DYNAMIC CASING PRESS AT KILL PUMP RATE	$\text{SICP} - \text{CHOKE LINE FRICTION}$
	= - = psi

FINAL CIRCULATING PRESSURE FCP	$\frac{\text{KILL MUD WEIGHT}}{\text{CURRENT MUD WEIGHT}} \times \text{DYNAMIC PRESSURE LOSS}$
 x = psi

DYNAMIC PRESSURE LOSS AT KOP (O)	$\text{PL} + \left[(\text{FCP} - \text{PL}) \times \frac{\text{KOPMD}}{\text{TDMD}} \right] = \dots + \left[(\dots - \dots) \times \dots \right] = \dots \text{ psi}$
----------------------------------	---

REMAINING SIDPP AT KOP (P)	$\text{SIDPP} - \left[(\text{KMW} - \text{CMW}) \times \text{KOPTVD} \times 0.052 \right]$
	= - \left[(\dots - \dots) \times 0.052 \times \dots \right] = psi

CIRCULATING PRESS. AT KOP (KOP CP)	$(O) + (P) = \dots + \dots = \dots \text{ psi}$
------------------------------------	---

DYNAMIC PRESS. LOSS AT EOB (R)	$\text{PL} + \left[(\text{FCP} - \text{PL}) \times \frac{\text{EOBMD}}{\text{TDMD}} \right] = \dots + \left[(\dots - \dots) \times \dots \right] = \dots \text{ psi}$
--------------------------------	---

REMAINING SIDPP AT EOB (S)	$\text{SIDPP} - \left[(\text{KMW} - \text{CMW}) \times \text{EOBTVD} \times 0.052 \right]$
	= - \left[(\dots - \dots) \times 0.052 \times \dots \right] = psi

CIRCULATING PRESS. AT EOB (EOB CP)	$(R) + (S) = \dots + \dots = \dots \text{ psi}$
------------------------------------	---

(T) = ICP - KOP CP = - = psi	$\frac{(T) \times 100}{(L)} = \frac{\dots \times 100}{\dots} = \dots \frac{\text{psi}}{100 \text{ strokes}}$
--	--

(U) = KOP CP - EOB CP = - = psi	$\frac{(U) \times 100}{(M)} = \frac{\dots \times 100}{\dots} = \dots \frac{\text{psi}}{100 \text{ strokes}}$
---	--

(W) = EOB CP - FCP = - = psi	$\frac{(W) \times 100}{(N1+N2+N3)} = \frac{\dots \times 100}{\dots} = \dots \frac{\text{psi}}{100 \text{ strokes}}$
--	---

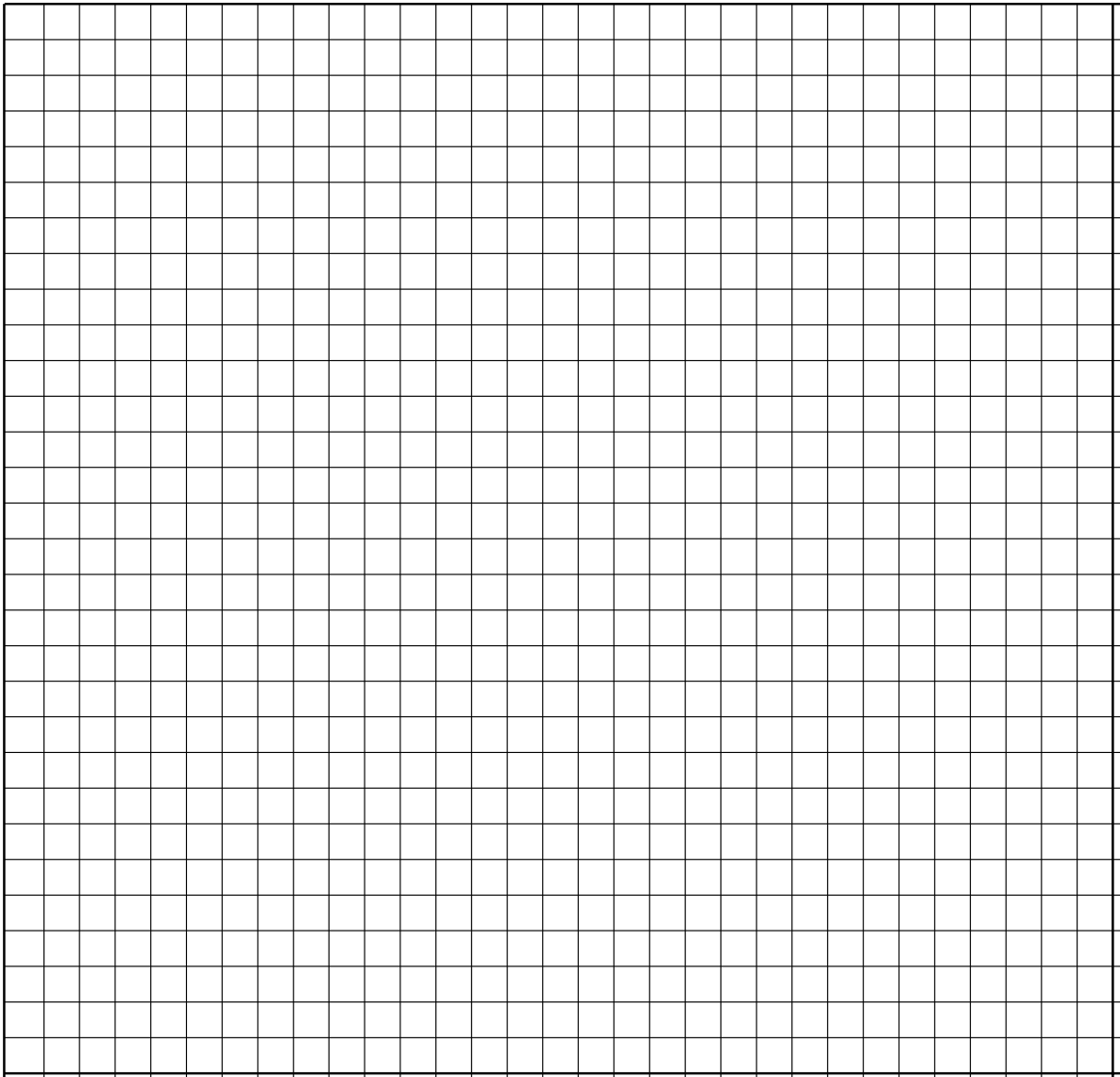
International Well Control Forum

DATE : _____

Subsea BOP Kill Sheet - Deviated Well (API Field Units)

NAME : _____

STATIC & DYNAMIC DRILL PIPE PRESSURE [psi] →



STROKES →

STROKES | PRESSURE
[psi]
