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 =

$$(B) + \frac{(A)}{\text{SHOE T.V. DEPTH} \times 0.052} = (C) \text{ _____ ppg}$$

INITIAL MAASP =

((C) - CURRENT MUD WEIGHT) x SHOE T.V. DEPTH x 0.052

= _____ psi

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

SLOW PUMP RATE DATA:	(PL) DYNAMIC PRESSURE LOSS [psi]					
	PUMP NO. 1			PUMP NO. 2		
	Riser	Choke Line	Choke Line Friction	Riser	Choke Line	Choke Line Friction
SPM						
SPM						

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

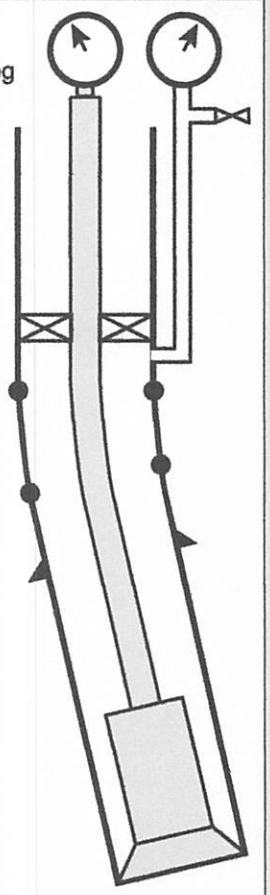
T.V. DEPTH _____ ft

HOLE DATA:

SIZE _____ in

M. DEPTH _____ ft

T.V. DEPTH _____ ft



PRE-RECORDED VOLUME DATA:	LENGTH ft	CAPACITY bbl s/ ft	VOLUME bbls	PUMP STROKES Strokes	TIME minutes
DP - SURFACE TO KOP	x	=		(L) stks	
DP - KOP TO EOB	x	=	+	(M) stks	
DP - EOB TO BHA	x	=	+	(N1) stks	
HEVI WALL DRILL PIPE	x	=	+	(N2) stks	
DRILL COLLAR	x	=	+	(N3) stks	
DRILL STRING VOLUME			(D) bbls	stks	min
DC x OPEN HOLE	x	=			
DP / HWDP x OPEN HOLE	x	=	+		
OPEN HOLE VOLUME			(F) bbls	stks	min
DP x CASING	x	=	(G) +	stks	min
CHOKELINE	x	=	(H) +	stks	min
TOTAL ANNULUS / CHOKELINE VOLUME			(F+G+H) = (I) bbl s	stks	min
TOTAL WELL SYSTEM VOLUME			(D+I) = (J) bbls	stks	min
ACTIVE SURFACE VOLUME			(K) bbl s	stks	
TOTAL ACTIVE FLUID SYSTEM			(J+K) bbls	stks	
MARINE RISER x DP	x	=	bbls	stks	

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KICK DATA : SIDPP [ ] psi SICP [ ] psi PIT GAIN [ ] bbl

KILL MUD WEIGHT

KMW

..... + (CURRENT MUD WEIGHT + SIDPP / TVD x 0.052) / X 0.052 = ... ppg

INITIAL CIRC. PRESSURE

ICP

DYNAMIC PRESSURE LOSS + SIDPP (i.e., Slow Pump Rate up Riser + SIDPP)

..... + ... = ... psi

INITIAL DYNAMIC CASING PRESS AT KILL PUMP RATE

SICP - CHOKE LINE FRICTION

= ..... - ..... = ... psi

FINAL CIRCULATING PRESSURE

FCP

(KILL MUD WEIGHT / CURRENT MUD WEIGHT) x DYNAMIC PRESSURE LOSS (i.e., Slow Pump Rate up Riser)

_____ x ..... = ... psi

DYNAMIC PRESSURE LOSS AT KOP (O)

(i.e., Slow Pump Rate up Riser)

PL + [(FCP-PL) x KOPMD / TDMD] = ... + [(.....-.....) x _____] = ... psi

REMAINING SIDPP AT KOP (P)

SIDPP - [(KMW - CMW) x KOPTVD x 0.052]

= ..... - [(.....-.....) x 0.052 x .....] = ... psi

CIRCULATING PRESS. AT KOP (KOP CP)

(O) + (P) = ... + ... = ... psi

DYNAMIC PRESS. LOSS AT EOB (R)

(i.e., Slow Pump Rate up Riser)

PL + [(FCP-PL) x EOBMD / TDMD] = ... + [(.....-.....) x _____] = ... psi

REMAINING SIDPP AT EOB (S)

SIDPP - [(KMW - CMW) x EOBTVD x 0.052]

= ..... - [(.....-.....) x 0.052 x .....] = ... psi

CIRCULATING PRESS. AT EOB (EOB CP)

(R) + (S) = ... + ... = ... psi

(T) = ICP - KOP CP = ... - ..... = ... psi

(T) x 100 / (L) = _____ X 100 = ... psi / 100 strokes

(U) = KOP CP - EOB CP = ... - ..... = ... psi

(U) x 100 / (M) = _____ X 100 = ... psi / 100 strokes

(W) = EOB CP - FCP = ... - ..... = ... psi

(W) x 100 / (N1+N2+N3) = _____ X 100 = ... psi / 100 strokes

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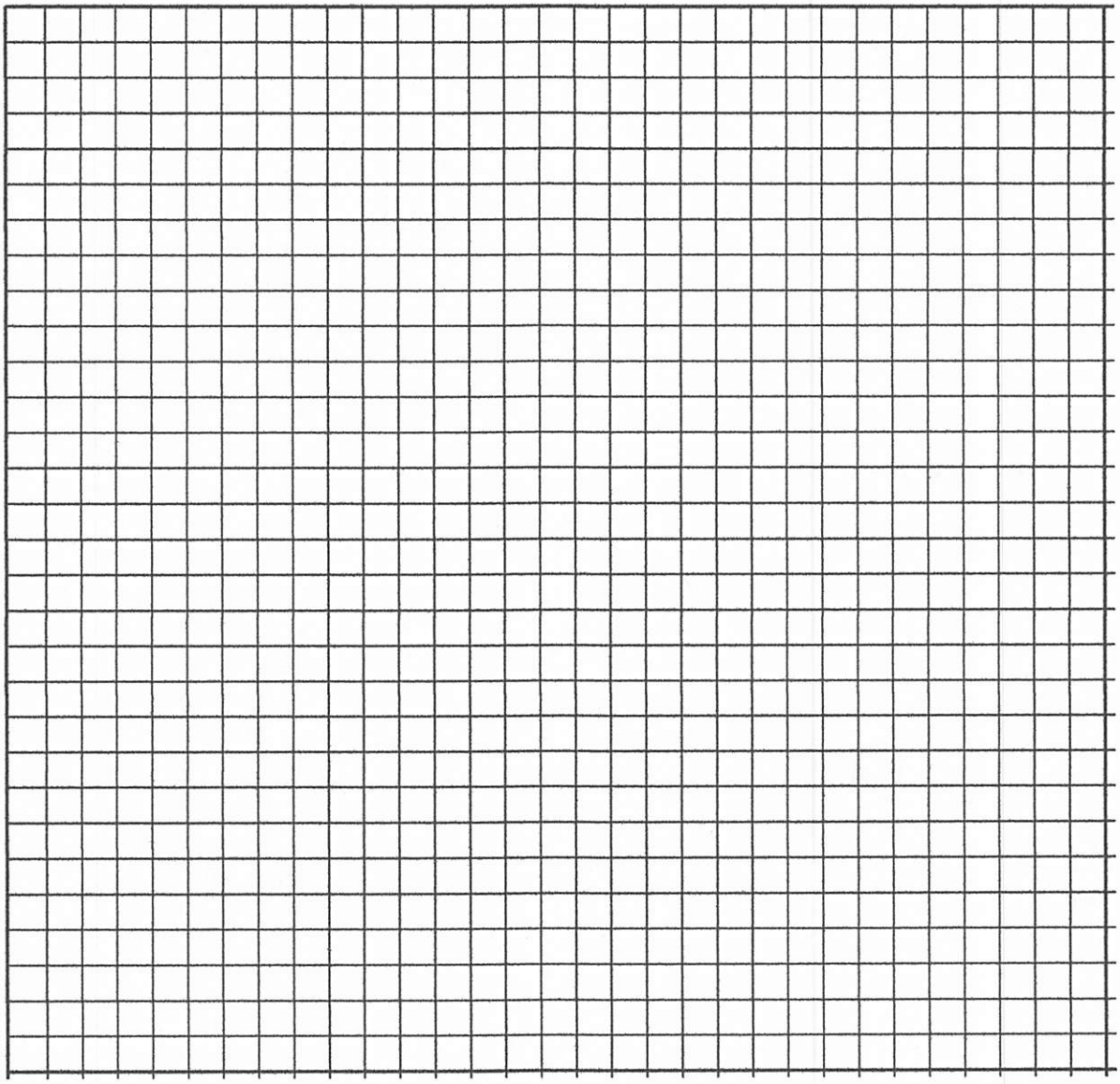

STROKES	PRESSURE [psi]