International Well Control Forum

Surface BOP Kill Sheet - Deviated Well (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	
	PUMP NO. 1	PUMP NO. 2
SPM	psi	psi
SPM	psi	psi

CURRENT WELL DATA:

DRILLING MUD DATA:

WEIGHT ____ ppg

GRADIENT ____ psi/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

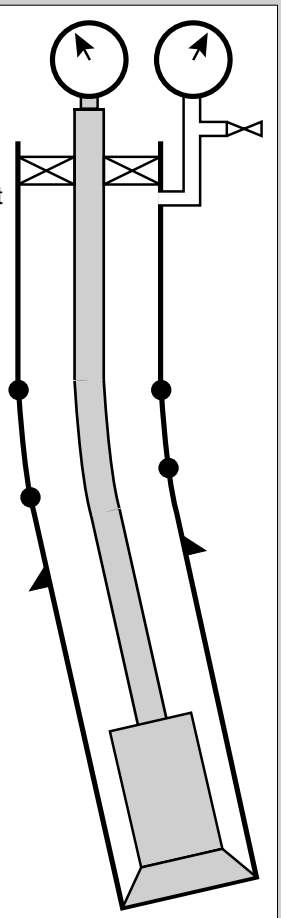
T.V. DEPTH ____ ft

HOLE DATA:

SIZE ____ in

M. DEPTH ____ ft

T.V. DEPTH ____ ft



PRE-RECORDED VOLUME DATA:	LENGTH ft	CAPACITY bbls / 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
TOTAL ANNULUS VOLUME			(F+G) = (H) bbls	stks	min
TOTAL WELL SYSTEM VOLUME			(D+H) = (I) bbls	stks	min
ACTIVE SURFACE VOLUME			(J) bbls		
TOTAL ACTIVE FLUID SYSTEM			(I+J) bbls		

Dr No SD 04/01
(Field Units)
27-01-2000

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KICK DATA :

SIDPP [ ] psi SICP [ ] psi PIT GAIN [ ] bbl

KILL MUD WEIGHT

KMW

..... + $\frac{\text{CURRENT MUD WEIGHT} + \frac{\text{SIDPP}}{\text{TVD x 0.052}}}{\text{X 0.052}}$ = ... ppg

INITIAL CIRC. PRESSURE

ICP

DYNAMIC PRESSURE LOSS + SIDPP

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

FINAL CIRCULATING PRESSURE

FCP

$\frac{\text{KILL MUD WEIGHT}}{\text{CURRENT MUD WEIGHT}}$ x DYNAMIC PRESSURE LOSS

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

DYNAMIC PRESSURE LOSS AT KOP (O)

PL + [(FCP-PL) x $\frac{\text{KOPMD}}{\text{TDMD}}$] = ... + [(.....-.....) x _____] = ... psi

REMAINING SIDPP AT KOP (P)

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

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

CIRCULATING PRESS. AT KOP (KOP CP)

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

DYNAMIC PRESSURE LOSS AT EOB (R)

PL + [(FCP-PL) x $\frac{\text{EOBMD}}{\text{TDMD}}$] = ... + [(.....-.....) x _____] = ... psi

REMAINING SIDPP AT EOB (S)

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

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

CIRCULATING PRESSURE AT EOB (EOB CP)

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

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

$\frac{\text{(T) x 100}}{\text{(L)}}$ = _____ x 100 = ... $\frac{\text{psi}}{\text{100 strokes}}$

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

$\frac{\text{(U) x 100}}{\text{(M)}}$ = _____ X 100 = ... $\frac{\text{psi}}{\text{100 strokes}}$

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

$\frac{\text{(W) x 100}}{\text{(N1+N2+N3)}}$ = _____ X 100 = ... $\frac{\text{psi}}{\text{100 strokes}}$

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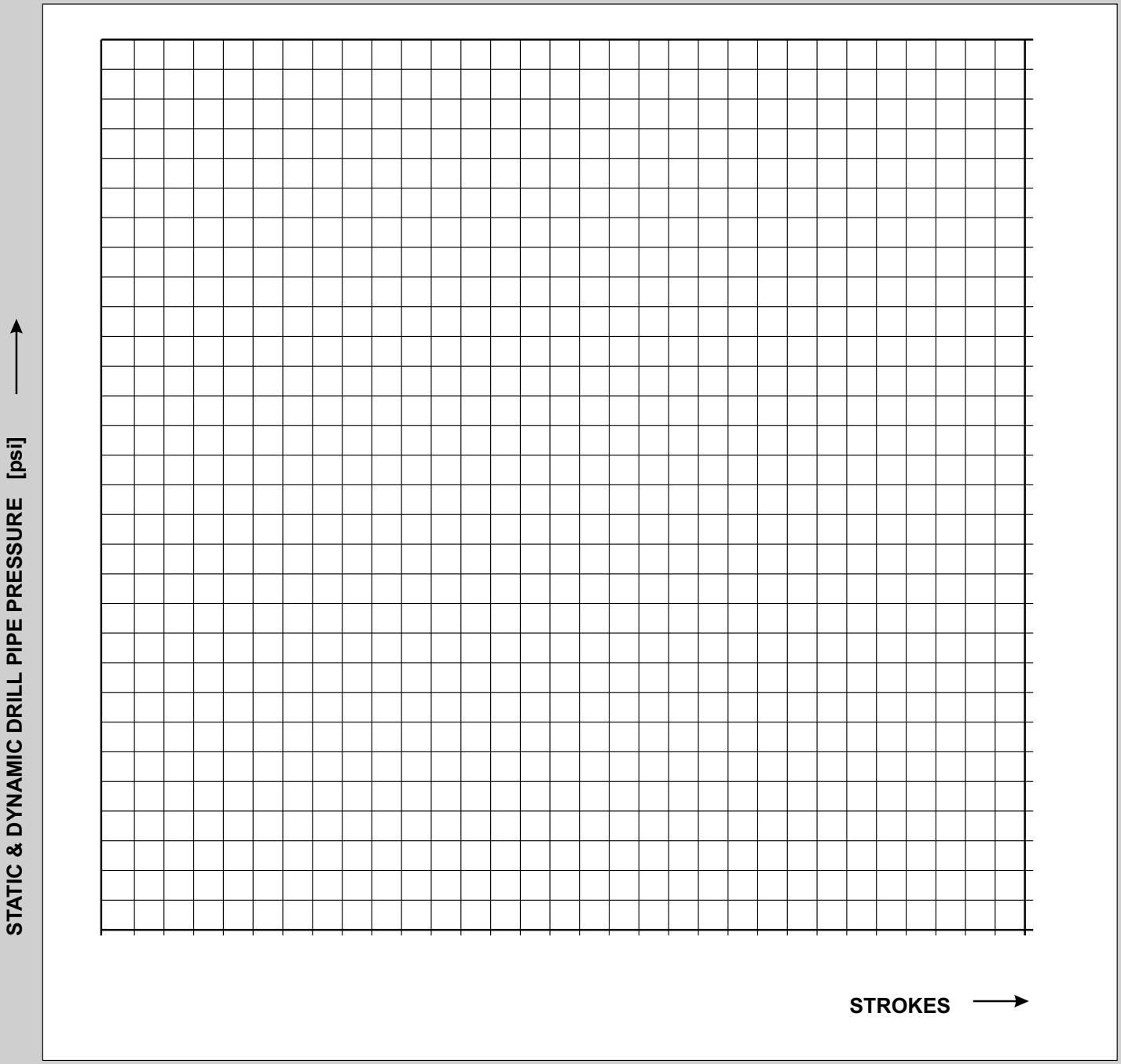

STROKES	PRESSURE [psi]																													