

Surface BOP Vertical Well Kill Sheet (API Field Units)

DATE : _____

NAME : _____

FORMATION STRENGTH DATA:

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

INITIAL MAASP =

$$((C) - \text{CURRENT MUD DENSITY}) \times \text{SHOE T.V. DEPTH} \times 0.052 \\ = \boxed{\quad} \text{ psi}$$

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

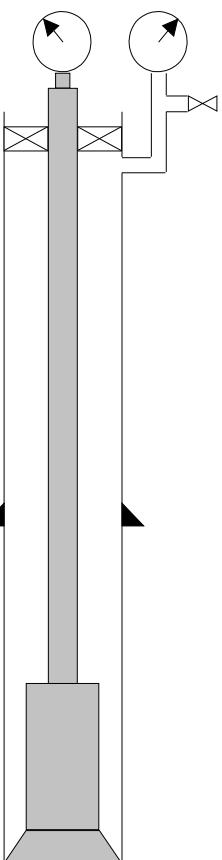
SPM

SPM

CURRENT WELL DATA:

CURRENT DRILLING MUD:

DENSITY ppg



CASING SHOE DATA:

SIZE inch

M. DEPTH feet

T.V. DEPTH feet

HOLE DATA:

SIZE inch

M. DEPTH feet

T.V. DEPTH feet

PRE-RECORDED
VOLUME DATA:

LENGTH
feet

CAPACITY
bbls / foot

VOLUME
barrels

PUMP STROKES
strokes

TIME
minutes

DRILL PIPE

x =

VOLUME

PUMP STROKES

HEAVY WALL DRILL PIPE

x = +

PUMP DISPLACEMENT
SLOW PUMP RATE

DRILL COLLARS

x = +

DRILL STRING VOLUME

(D)

bbls

(E)

strokes

Min

DC x OPEN HOLE

x =

DP / HWDP x OPEN HOLE

x = +

OPEN HOLE VOLUME

(F)

bbls

strokes

Min

DP x CASING

x = (G) +

strokes

Min

TOTAL ANNULUS VOLUME

(F+G) (H)

bbls

strokes

Min

TOTAL WELL SYSTEM VOLUME

(D+H)

bbls

strokes

Min

ACTIVE SURFACE VOLUME

(J)

bbls

strokes

TOTAL ACTIVE FLUID SYSTEM

(I + J)

bbls

strokes

Surface BOP Vertical Well Kill Sheet (API Field Units)

DATE : _____

NAME : _____

KICK DATA : SIDPP psi SICP psi PIT GAIN barrels

KILL MUD DENSITY	CURRENT MUD DENSITY + $\frac{\text{SIDPP}}{(\text{TVD} \times 0.052)}$
KMD	$\dots \dots \dots + \frac{\dots}{\dots \times 0.052} = \dots \dots \dots$ ppg

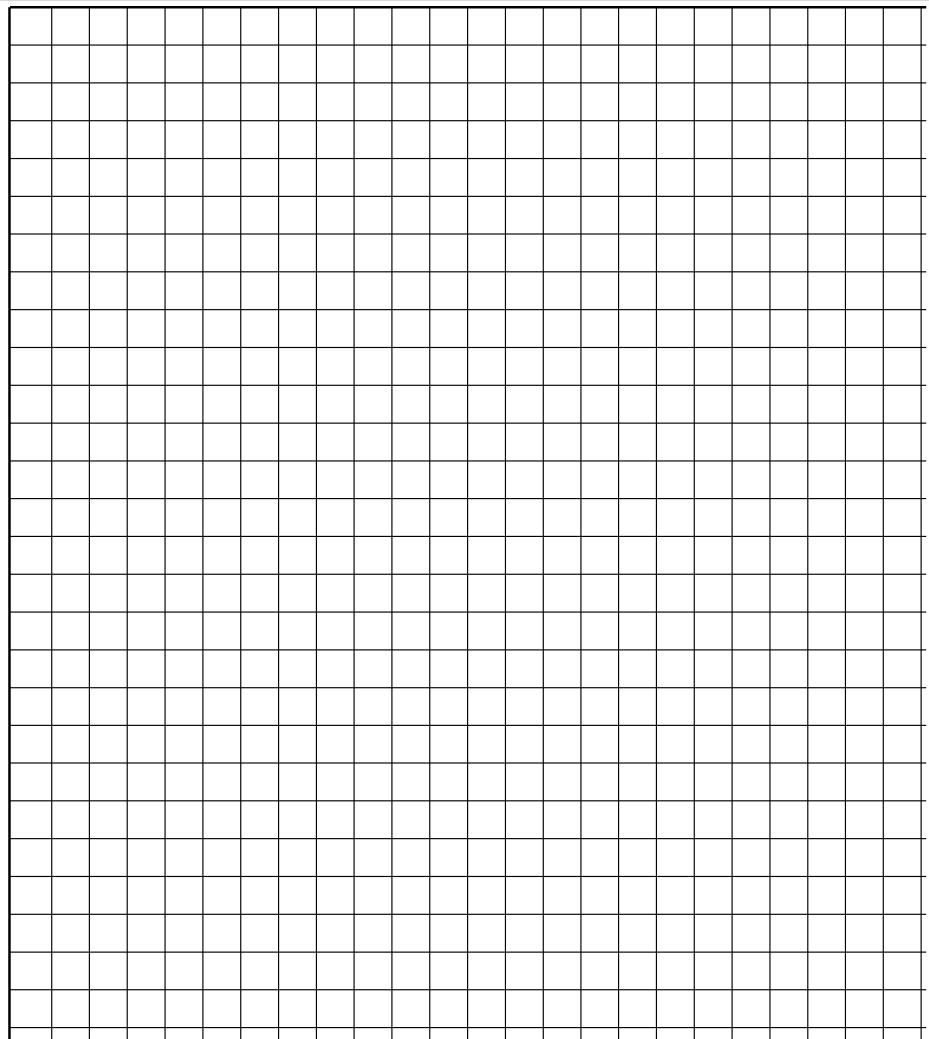
INITIAL CIRCULATING PRESSURE	DYNAMIC PRESSURE LOSS + SIDPP $\dots \dots \dots + \dots \dots \dots = \dots \dots \dots$
ICP	psi

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

$(K) = ICP - FCP = \dots \dots \dots - \dots \dots \dots = \dots \dots \dots$	psi	$\frac{(K) \times 100}{(E)} = \dots \dots \dots \times 100 = \dots \dots \dots$	psi 100 strokes
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STROKES PRESSURE
[psi]

STATIC & DYNAMIC DRILL PIPE PRESSURE [psi] —————



STROKES —————