

# 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) \_\_\_\_\_ ppG

INITIAL MAASP =

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

= \_\_\_\_\_ 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

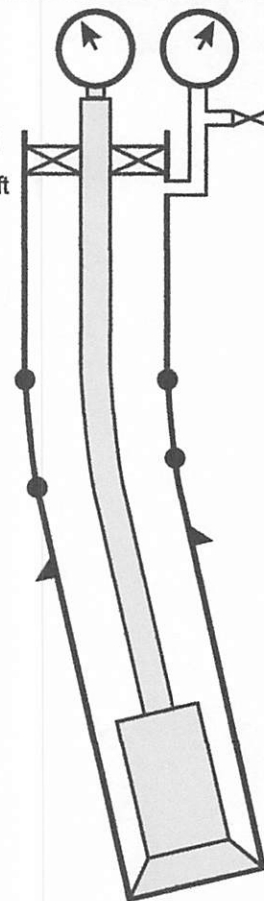
T.V. DEPTH \_\_\_\_\_ ft

### HOLE DATA:

SIZE \_\_\_\_\_ in

M. DEPTH \_\_\_\_\_ ft

T.V. DEPTH \_\_\_\_\_ ft



PUMP NO. 1 DISPL.

PUMP NO. 2 DISPL.

bbbls / stroke

bbbls / stroke

SLOW PUMP  
RATE DATA:

(PL) DYNAMIC PRESSURE LOSS

PUMP NO. 1

PUMP NO. 2

SPM

psi

psi

SPM

psi

psi

PRE-RECORDED  
VOLUME DATA:

LENGTH  
ft

CAPACITY  
bbbls / ft

VOLUME  
bbbls

PUMP STROKES  
strokes

TIME  
minutes

DP - SURFACE TO KOP

x = \_\_\_\_\_ +

DP - KOP TO EOB

x = \_\_\_\_\_ +

DP - EOB TO BHA

x = \_\_\_\_\_ +

HEVI WALL DRILL PIPE

x = \_\_\_\_\_ +

DRILL COLLAR

x = \_\_\_\_\_ +

DRILL STRING VOLUME

(D) \_\_\_\_\_ bbbls

DC x OPEN HOLE

x = \_\_\_\_\_ +

DP / HWDP x OPEN HOLE

x = \_\_\_\_\_ +

OPEN HOLE VOLUME

(F) \_\_\_\_\_ bbbls

DP x CASING

x = (G) \_\_\_\_\_ +

TOTAL ANNULUS VOLUME

(F+G) = (H) \_\_\_\_\_ bbbls

TOTAL WELL SYSTEM VOLUME

(D+H) = (I) \_\_\_\_\_ bbbls

ACTIVE SURFACE VOLUME

(J) \_\_\_\_\_ bbbls

TOTAL ACTIVE FLUID SYSTEM

(I+J) \_\_\_\_\_ bbbls

(L) \_\_\_\_\_ stks

(M) \_\_\_\_\_ stks

(N1) \_\_\_\_\_ stks

(N2) \_\_\_\_\_ stks

(N3) \_\_\_\_\_ stks

\_\_\_\_\_ stks \_\_\_\_\_ min

\_\_\_\_\_ stks \_\_\_\_\_ min

\_\_\_\_\_ stks \_\_\_\_\_ min

\_\_\_\_\_ stks \_\_\_\_\_ min

\_\_\_\_\_ stks \_\_\_\_\_ min

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## KICK DATA :

SIDPP  psi

SICP  psi

PIT GAIN  bbl

## KILL MUD WEIGHT

KMW

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

## INITIAL CIRC. PRESSURE

ICP

DYNAMIC PRESSURE LOSS + SIDPP

$$\text{DYNAMIC PRESSURE LOSS} + \text{SIDPP} = \text{psi}$$

## FINAL CIRCULATING PRESSURE

FCP

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

## DYNAMIC PRESSURE LOSS AT KOP (O)

$$\text{PL} + \left[ (\text{FCP} - \text{PL}) \times \frac{\text{KOPMD}}{\text{TDMD}} \right] = \text{psi}$$

## REMAINING SIDPP AT KOP (P)

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

## CIRCULATING PRESS. AT KOP (KOP CP)

$$(\text{O}) + (\text{P}) = \text{psi}$$

## DYNAMIC PRESSURE LOSS AT EOB (R)

$$\text{PL} + \left[ (\text{FCP} - \text{PL}) \times \frac{\text{EOBMD}}{\text{TDMD}} \right] = \text{psi}$$

## REMAINING SIDPP AT EOB (S)

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

## CIRCULATING PRESSURE AT EOB (EOB CP)

$$(\text{R}) + (\text{S}) = \text{psi}$$

$$(\text{T}) = \text{ICP} - \text{KOP CP} = \text{psi}$$

$$\frac{(\text{T}) \times 100}{(\text{L})} = \frac{\text{psi}}{100 \text{ strokes}}$$

$$(\text{U}) = \text{KOP CP} - \text{EOB CP} = \text{psi}$$

$$\frac{(\text{U}) \times 100}{(\text{M})} = \frac{\text{psi}}{100 \text{ strokes}}$$

$$(\text{W}) = \text{EOB CP} - \text{FCP} = \text{psi}$$

$$\frac{(\text{W}) \times 100}{(\text{N1} + \text{N2} + \text{N3})} = \frac{\text{psi}}{100 \text{ strokes}}$$

## International Well Control Forum

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STATIC & DYNAMIC DRILL PIPE PRESSURE [psi] 

**STROKES** →

STROKES	PRESSURE
	[psi]

[illegible]