

International Well Control Forum

Surface BOP Deviated Well Kill Sheet (Field Units)

DATE : _____

NAME : _____

FORMATION STRENGTH DATA:

SURFACE LEAK -OFF PRESSURE FROM FORMATION STRENGTH TEST psi

DRILLING FLUID DENS. AT TEST ppg

MAX. ALLOWABLE DRILLING FLUID DENSITY =
 $(B) + \frac{(A)}{\text{SHOE T.V. DEPTH} \times 0.052} = (C)$ ppg

INITIAL MAASP =
 $((C) - \text{CURR. DENS.}) \times \text{SHOE T.V. DEPTH} \times 0.052$
 = psi

CURRENT WELL DATA:

DRILLING FLUID DATA:

DENSITY 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

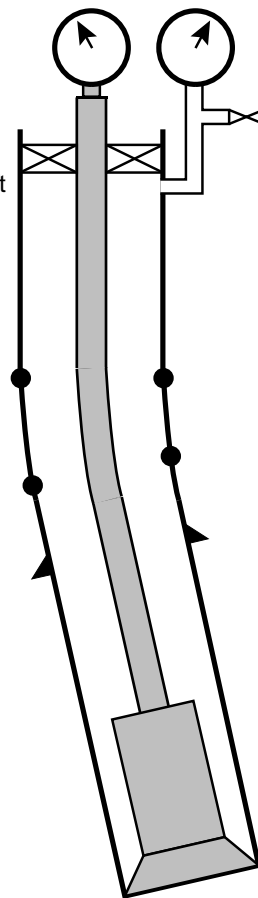
T.V. DEPTH ft

HOLE DATA:

SIZE in

M. DEPTH ft

T.V. DEPTH ft



PUMP NO. 1 DISPL.	PUMP NO. 2 DISPL.
bbl / stroke	bbl / 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 bbl / ft	VOLUME bbl	PUMP STROKES stks	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"/> bbl	<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"/> bbl	<input type="text"/> stks	<input type="text"/> min
DP x CASING	x	=	(G) <input type="text"/> bbl	<input type="text"/> stks	<input type="text"/> min
TOTAL ANNULUS VOLUME			(F+G) = (H) <input type="text"/> bbl	<input type="text"/> stks	<input type="text"/> min
TOTAL WELL SYSTEM VOLUME			(D+H) = (I) <input type="text"/> bbl	<input type="text"/> stks	<input type="text"/> min
ACTIVE SURFACE VOLUME			(J) <input type="text"/> bbl		
TOTAL ACTIVE FLUID SYSTEM			(I+J) <input type="text"/> bbl		

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KICK DATA :

SIDPP psi

SICP psi

PIT GAIN bbl

KILL FLUID DENSITY	CURRENT DRILLING FLUID DENSITY	+	$\frac{\text{SIDPP}}{\text{TVD} \times 0.052}$		
KMD	+	$\frac{\text{.....}}{\text{.....} \times 0.052}$	= ppg

INITIAL CIRC. PRESS. ICP	DYNAMIC PRESSURE LOSS	+	SIDPP		
.....	+	= psi

FINAL CIRCULATING PRESSURE FCP	$\frac{\text{KILL FLUID DENSITY}}{\text{CURRENT DRILLING FLUID DENSITY}}$	x	DYNAMIC PRESSURE LOSS		
.....	$\frac{\text{.....}}{\text{.....}}$	x	= psi

DYNAMIC PRESSURE LOSS AT KOP (O)	$PL + \left[(FCP-PL) \times \frac{KOPMD}{TDMD} \right]$	=	+	$\left[(\text{.....} - \text{.....}) \times \frac{\text{.....}}{\text{.....}} \right]$	= psi
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REMAINING SIDPP AT KOP (P)	$SIDPP - \left[(KMD - OMD) \times 0.052 \times KOPTVD \right]$	=	-	$\left[(\text{.....} - \text{.....}) \times 0.052 \times \text{.....} \right]$	= psi
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CIRCULATING PRESS. AT KOP (KOP CP)	(O) + (P) =	+	= psi
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DYNAMIC PRESS. LOSS AT EOB (R)	$PL + \left[(FCP-PL) \times \frac{EOBMD}{TDMD} \right]$	=	+	$\left[(\text{.....} - \text{.....}) \times \frac{\text{.....}}{\text{.....}} \right]$	= psi
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REMAINING SIDPP AT EOB (S)	$SIDPP - \left[(KMD - OMD) \times 0.052 \times EOBTVD \right]$	=	-	$\left[(\text{.....} - \text{.....}) \times 0.052 \times \text{.....} \right]$	= psi
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CIRCULATING PRESS. AT EOB (EOB CP)	(R) + (S) =	+	= psi
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(T) = ICP - KOP CP = - = psi	$\frac{(T) \times 100}{(L)}$	=	$\frac{\text{.....} \times 100}{\text{.....}}$	=	$\frac{\text{psi}}{100 \text{ strokes}}$
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(U) = KOP CP - EOB CP = - = psi	$\frac{(U) \times 100}{(M)}$	=	$\frac{\text{.....} \times 100}{\text{.....}}$	=	$\frac{\text{psi}}{100 \text{ strokes}}$
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(W) = EOB CP - FCP = - = psi	$\frac{(W) \times 100}{(N1+N2+N3)}$	=	$\frac{\text{.....} \times 100}{\text{.....}}$	=	$\frac{\text{psi}}{100 \text{ strokes}}$
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