International Well Control Forum
Subsea BOP vertical well kill sheet
(metric/bar units – 0.0981)

Date: _____

Name: _____

Formation strength data:

Surface leak-off pressure from formation strength test **(A)** bar

Fluid density at test **(B)** kg/l

Maximum allowable fluid density =

$$(\mathbf{B}) + \left(\frac{(\mathbf{A})}{\text{casing shoe TVD} \times 0.0981}\right) = \mathbf{(C)}\ \text{kg/l}$$

Initial MAASP =

((**C**) −current fluid density) × 0.0981 × casing shoe TVD

= _____ bar

Current well data:

Subsea BOP data:

Marine riser length _____ m

Choke line length _____ m

Current fluid:

Density _____ kg/l

Casing shoe data:

Size _____ in

MD _____ m

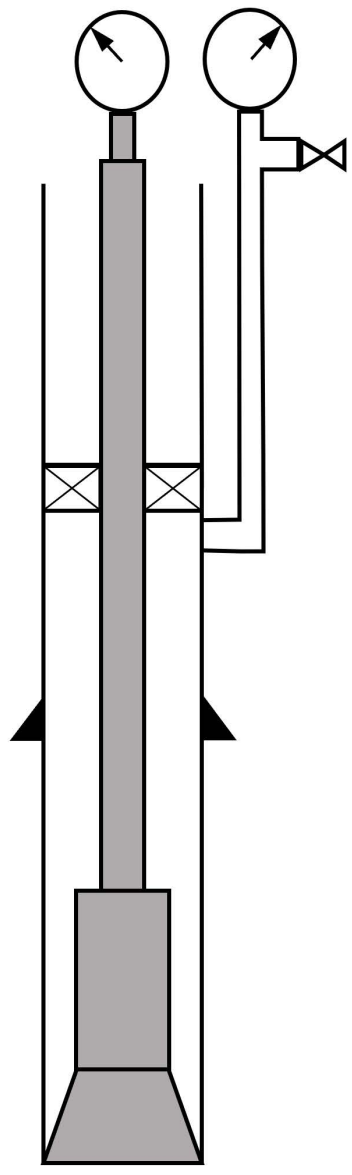
TVD _____ m

Openhole data:

Size _____ in

MD _____ m

TVD _____ m



Pump 1 displacement	Pump 2 displacement
l/stroke	l/stroke

	Circulating pressure at kill rate (SCR)					
	Pump 1			Pump 2		
Kill rate data:	Riser	Choke line	Choke line friction	Riser	Choke line	Choke line friction
SPM						
SPM						

Surface lines volume	**(D)** l	**strokes**

Pre-recorded volume data	**Length m**	**Capacity l/m**	**Volume l**	**Pump strokes**	**Time minutes**
Drillpipe (DP)	**x**	**=**		**volume / pump displacement**	**pump strokes / kill rate**
Heavy weight drillpipe (HWDP)	**x**	**=**	**+**		
Drill collars (DC)	**x**	**=**	**+**		
Drillstring volume	**(E)**		**l**	**(F) strokes**	**min**
DC x openhole	**x**	**=**			
DP/HWDP x openhole	**x**	**=**	**+**		
Openhole volume	**(G)**		**l**	**strokes**	**min**
DP x casing	**(H)** **x**	**=**	**+**	**strokes**	**min**
Choke line	**(I)** **x**	**=**	**+**	**strokes**	**min**
Total annulus/choke line volume	**(G)+(H)+(I)=(J)**		**l**	**strokes**	**min**
Total well system volume	**(E)+(J)=(K)**		**l**	**strokes**	**min**
Active surface pit volume	**(L)**		**l**	**strokes**	
Total active fluid volume	**(D)+(K)+(L)**		**l**	**strokes**	
Marine riser x DP	**x**	**=**	**l**	**strokes**	**min**

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Kick data:

SIDPP [ ] **bar** **SICP** [ ] **bar** **pit gain** [ ] **litres**

Kill fluid density	current fluid density + $\left(\frac{\text{SIDPP}}{\text{TVD} \times 0.0981}\right)$ + _____ = **kg/l**
Initial circulating pressure (ICP)	circulating pressure at kill rate + SIDPP + = **bar**
Final circulating pressure (FCP)	$\left(\frac{\text{kill fluid density}}{\text{current fluid density}}\right)$ × circulating pressure at kill rate _____ × = **bar**

(M) = (ICP) – (FCP) = – = **bar**

$\frac{(\mathbf{M}) \times 100}{(\mathbf{F})}$ = _____ × 100 = $\frac{\text{bar}}{100 \text{ strokes}}$

Initial dynamic casing pressure at kill pump rate	SICP - choke line friction = - = **bar**

strokes	pressure (bar)

static and dynamic drillpipe pressure (bar)

strokes