30-025,42100

## **BLOWOUT PREVENTOR SCHEMATIC Minimum Requirements OPERATION** : Intermediate and Production Hole Sections Minimum System Pressure Rating : 5,000 psi SIZE PRESSURE DESCRIPTION Α **Bell Nipple** N/A в 13 5/8 5,000 psi Annular Flowline to Shaker c 5,000 psi 13 5/8 **Pipe Ram** D Δ 5.000 psi 13 5/8 **Blind Rom** Fill Up Line Е 13 5/8" 5.000 psi Mud Cross F DSA As required for each hole size R C-Sec **B**-Sec 13-5/8" 5K x 11" 5K A-Sec 13-3/8" SOW x 13-5/8" 5K **Kill Line** C SIZE PRESSURE DESCRIPTION 2" 5,000 psi **Gate Valve** 2-5,000 psi Gate Valve 2" 5,000 psl **Check Valve** D Choke Line to Choke Manifold- 3" Kill Line- 2" minimum minimum **Choke Line** 68 Е 0 PRESSURE DESCRIPTION SIZE 5,000 psi **Gate Valve** 3" HCR Valve 5,000 psi HCR Valve 3" **Installation Checklist** The following item must be verified and checked off prior to pressure testing of BOP equipment. The installed BOP equipment meets at least the minimum requirements (rating, type, size, configuration) as shown on this schematic. Components may be substituted for equivalent equipment rated to higher pressures. Additional components may be put into place as long as they meet or exceed the minimum pressure rating of the system. All valves on the kill line and choke line will be full opening and will allow straight though flow. The kill line and choke line will be straight unless turns use tee blocks or are targeted with running tess, and will be anchored to prevent whip and reduce vibration. Manual (hand wheels) or automatic locking devices will be installed on all ram proventers. Hand wheels will also be installed on all manual valves on the choke line and kill line. A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve will remain open unless accumulator is inoperative. Upper kelly cock valve with handle will be available on rig floor along with safety valve and subs to fit all drill string connections in use. After Installation Checklist is complete, fill out the information below and email to Superintendent and Drilling Engineer Wellname: **Representative:** Date:

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		Minin	our Donuiron		
			num Requirer		
	The following it	Closing Unit a em must be performed			er well prior to low/high
				d after 6 months on th	
L_ w	recharge pressure for c vith nitrogen gas only. hrough the end of the w	lested precharge pres	sures must be recor	ded for each individual	s may be further charged bottle and kept on location
one that		Minimum acceptable operating pressure	Desired precharge pressure	Maximum acceptable precharge pressure	Minimum acceptable precharge pressure
applies	1500 psi	1500 psi	750 psi	800 psi	700 psi
	2000 psi	2000 psi	1000 psi	1100 psi	900 psi
	3000 psi	3000 psi	1000 psi	1100 psi	900 psi
	ams, close the annular pressure (see table abov vith test pressure recor Accumulator fluid reserv	preventer, and retain a e) on the closing mani ded and kept on locati oir will be double the (	minimum of 200 ps fold without the use on through the end o usable fluid volume (	above the maximum of of the closing pumps. If the well of the accumulator sys	This test will be performe tem capacity. Fluid level
b	vill be maintained at ma be recorded. Reservoir ( ocation through the end	luid level will be recor	ndations. Usable flu ded along with man	id volume will be reco ufacturer's recommenc	rded. Reservior capacity lation. All will be kept on
	Closing unit system will preventers.	have two independent	power sources (not	counting accumulator	bottles) to close the
v	Power for the closing un when the closing valve r accumulator pump is "O	nanifold pressure decr	eases to the pre-set	times so that the pum level. It is recommend	ps will automatically start ded to check that air line (
(i p	if used) plus close the a	nnular preventer on th eptable precharge pres	e smallest size drill ssure (see table abo	pipe within 2 minutes ve) on the closing man	ly-operated choke line val and obtain a minimum of 2 ifold. Test pressure and
	Aaster controls for the E III preventer and the ch		cated at the accum	ilator and will be capa	ble of opening and closing
я	Remote controls for the loor (not in the dog hou	BOPE system will be r			and located on the rig
F	Record accumulator tes	ts in drilling reports an	d IADC sheet		
		BOPE T	est Checklist		
	TI	e following item must	be ckecked off prior	to beginning test	
<b>–</b> 8	SLM will be given at leas	at 4 hour notice prior to	beginning BOPE te	sting	
<u> </u>	alve on casing head be	low test plug will be o	pen		
<b>–</b> 1	est will be performed u	sing clear water.			
	The follow	ving item must be perfe	ormed during the BO	PE testing and then ch	ecked off
f	BOPE will be pressure to ollowing related repairs party on a test chart and	, and at a minimum of	30 days intervals. T	est pressure and times	ressure is broken, s will be recorded by a 3여
T	fest plug will be used				
R	Ram type preventer and	all related well contro	l equipment will be t	ested to 250 psi (low)	and 5,000 psi (high).
A	Annular type preventer v	vill be tested to 250 ps	i (low) and 3,500 ps	i (high).	
	Valves will be tested from the working pressure side with all down stream valves open. The check valve will be held open to test the kill line valve(s)				
E	Each pressure test will l	e held for 10 minutes	with no allowable le	ak off.	
<b>N</b>	laster controls and rem	ote controis to the clo	sing unit (accumula	tor) must be function to	ested as part of the BOP to
F	Record BOP tests and p	essures in drilling repo	orts and IADC sheet		
	Installation Checklist is ny/all BOP and accumu				lent and Drilling Engineer
	Welina Representati				

