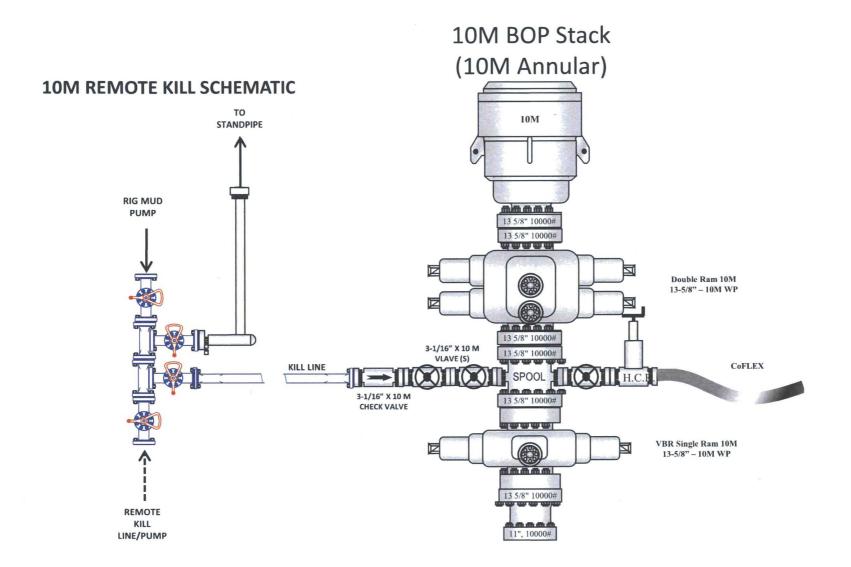
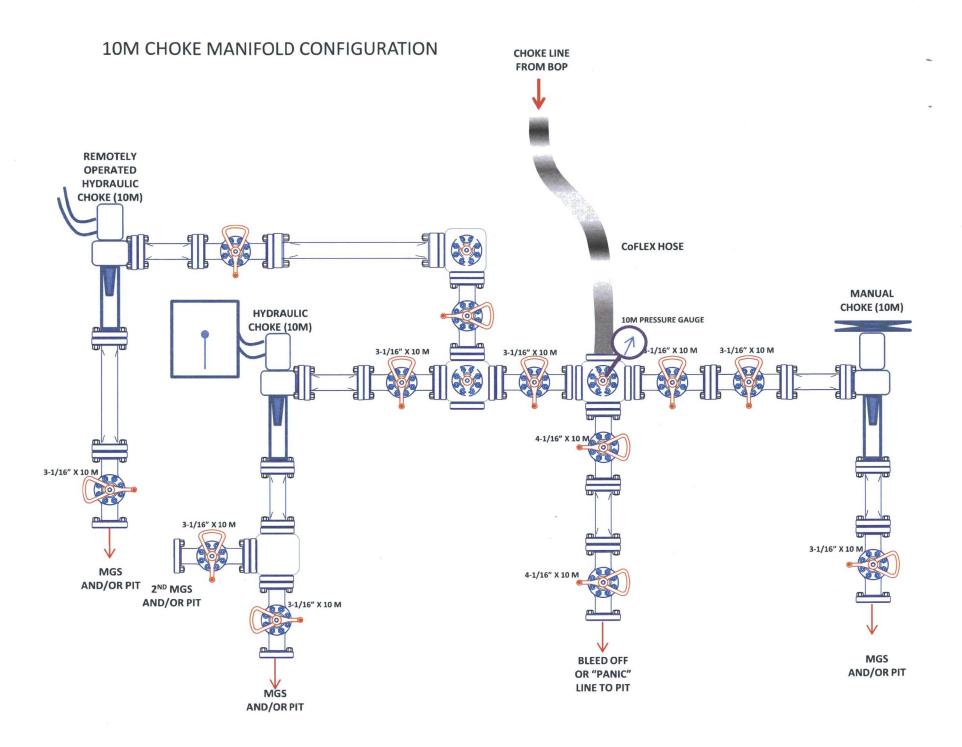
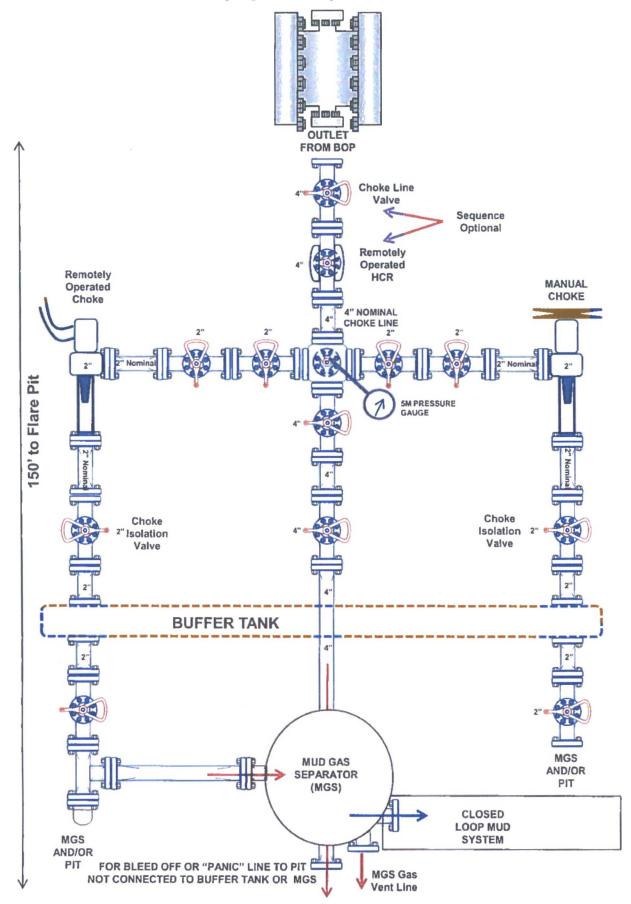
10M BOP Stack

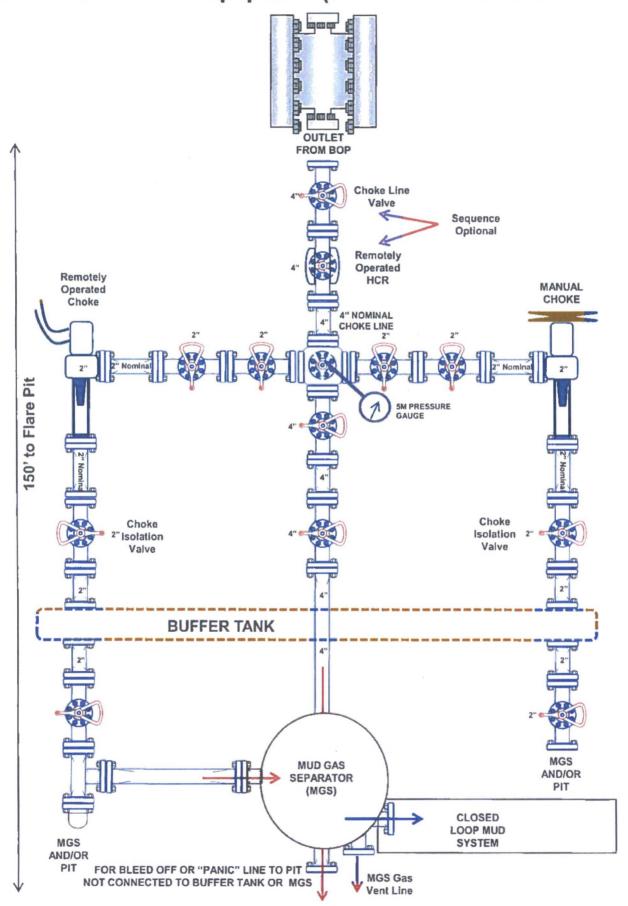




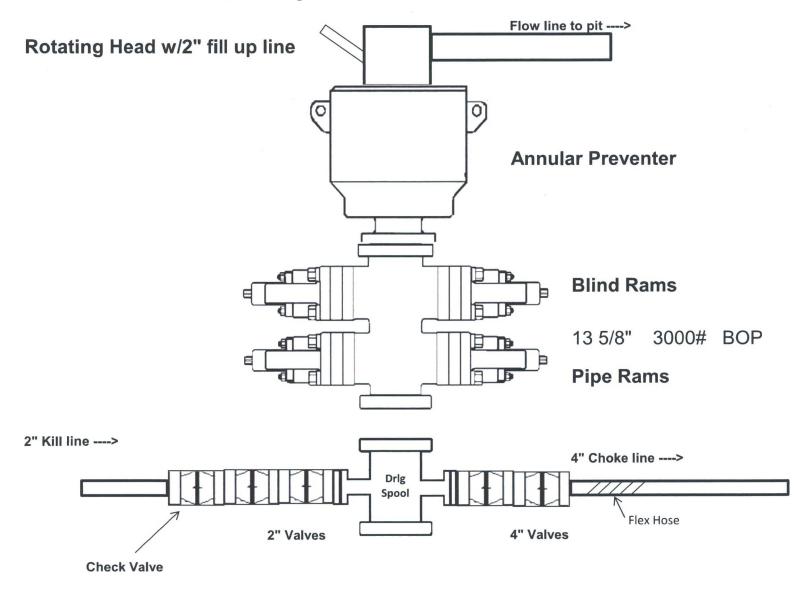
3M Choke Manifold Equipment (WITH MGS + CLOSED LOOP)



5M Choke Manifold Equipment (WITH MGS + CLOSED LOOP)



3,000 psi BOP Schematic





Internal Hydrostatic Test Certificate

General Information		Hose Specifications	
Customer	Hobbs	Hose Assembly Type	Rotary/Vibrator
MWH Sales Representative	Ryan Rynolds	Certification	API 7K/FSL Level 2
Date Assembled	11/19/2015	Hose Grade	D
Location Assembled	ОКС	Hose Working Pressure	5000
Sales Order #	271739	Hose Lot # and Date Code	11834 11/14
Customer Purchase Order #	302337	Hose I.D. (Inches)	3.5"
Assembly Serial # (Pick Ticket #)	326000	Hose O.D. (Inches)	4.89"
Hose Assembly Length	25'	Armor (yes/no)	No
	Fi	ittings	
End A		End B	
Stem (Part and Revision #)	R3.5X64WB	Stem (Part and Revision #)	R3.5X64WB
Stem (Heat #)	A144783	Stem (Heat #)	A144783
Ferrule (Part and Revision #)	RF3.5	Ferrule (Part and Revision #)	RF3.5
Ferrule (Heat #)	J1628	Ferrule (Heat #)	J1628
Connection . Flange Hammer Union Part	4-1/16 5000	Connection (Part #)	4-1/16 5000
Connection (Heat #)	14032501	Connection (Heat #)	1404H321
Nut (Part #)	N/A	Nut (Part#)	N/A
Nut (Heat#)	N/A	Nut (Heat #)	N/A
Dies Used	5.49"	Dies Used	5.49"
	Hydrostatic T	est Requirements	
Tost Prossure (-:)	10,000	Hose assembly was tested with ambient water temperature.	
Test Pressure (psi)			



Certificate of Conformity				
Customer: Hobbs	to the state of th	Customer P.O.# 302337		
Sales Order # 271739		Date Assembled: 11/19/2015		
	Specif	ications		
Hose Assembly Type:	Rotary/Vibrator			
Assembly Serial #	326000	Hose Lot # and Date Code	11834 11/14	
Hose Working Pressure (psi)	5000	Test Pressure (psi)	10000	

We hereby certify that the above material supplied for the referenced purchase order to be true according to the requirements of the purchase order and current industry standards.

Supplier:

Midwest Hose & Specialty, Inc. 3312 S I-35 Service Rd

Oklahoma City, OK 73129

Comments:

Approved By	Date
Kim Shamas	11/19/2015

November 19, 2015



Internal Hydrostatic Test Graph

Customer: Hobbs

Pick Ticket #: 326000

Hose Specifications

Hose Type D LD 3.5" Working Pressure

5000 PSI

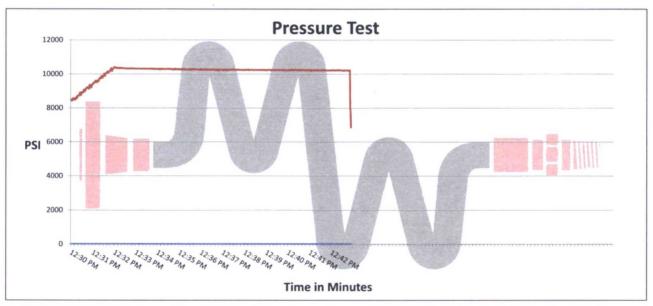
Length
25'
O.D.
4.89"
Burst Pressure
Standard Safety Multiplier Applies

Verification

Type of Fitting
4 1/16 5K
Die Size
5.49"
Hose Serial #
11834

Swage
Final O.D.
5.50"
Hose Assembly Serial #
326000

Coupling Method



Test Pressure 10000 PSI <u>Time Held at Test Pressure</u> 11 2/4 Minutes **Actual Burst Pressure**

Peak Pressure 10473 PSI

Comments: Hose assembly pressure tested with water at ambient temperature.

Tested By: James Hawkins

Approved By: Kim Thomas

X

Hose Assembly General Information		Hose Specifications	
Customer	Hobbs	Hose Assembly Type	choul + kil
Date Assembled	6-26-14	Certification	APITK
Location Assembled	· DIC C	Hose Grade	D
Saies Order#	216297	Hose Working Pressure	5,000
Customer Purchase Order #	237512	Hose Lot #	8309
Hose Assembly Serial #	260212	Hose Date Code	04/12
Pick Ticket Line Item	. 0010	Hose I.D. (Inches)	3.5 indhes
Hose Assembly Length (Feet and Inches)	50 fur	Hose O.D. (Inches)	5.49
Contact Information Phone #		Armor (yes/no)	Yes
	Fitt	ings	ALTO DE LA ROYA
End A		End B	
Stem (Part and Revision #)	R3.5 X L4 WD	Stem (Part and Revision #)	R3.5x 64 4B
Stem (Heat #)	13/14050225	Stem (Heat #)	13114050225
Stem (Rockwell Hardness HRB N)		Stem (Rockwell Hardness HRB#)	_
Ferrule (Part and Revision #)	RF 3, 5	Ferrule (Port and Revision #)	RF3.5
Ferrule (Heat #)	126151	Ferrule (Heat #)	372114
Ferrule (Rockwell Hardness HRB #)	-	Ferrule (Rockwell Hardness HRB #)	-
Connection (Part #)	41/16 5K	Connection (Part #)	4 1/16 5K
Connection (Heat #)	V 3360	Connection (Heat #)	V3360
Connection (Brinell Hardness HB #)	-	Connection (Brine'll Hardness HB #)	_
Stress Relief #	17614	Stress Relief #	17614
Nelding #	MKR	Welding #	MKR
K-ray #	-	X-ray #	-
The second second second	Assembly I	nformation	BALL THE PROPERTY OF THE PARTY OF
End A		End B	
Skive O.D. (Inches)	5.04	Skive O.D. (Inches)	14.92
Swager Dies (1st pass)	5.62	Swager Dies (1st pass)	5.53
Swager Dies (2nd pass)	_	Swager Dies (2nd pass)	
Final Swage O.D. (Inches)	5.64	Final Swage O.D. (Inches)	5.48
Compression % (See Crimp Calculator)	9400 A	Compression % (See Crimp Calculator)	2210
waged By	nances	Hh.	
AND THE PROPERTY OF THE PARTY O	Hydrostatic Tes	t Requirements	A STATE OF
Test Pressure (psi)	10,000	Hold Time (minutes)	1314
Tested By Markes	Woh	Date Tested sfactorily tested in accordance with MHSI p	6-26-14

Customer or Third Party Witnessed By:

Hammer Unions

Safety Clamps

(b)

nird Party Witness

No

1

Yes

Yes

5,000 psi BOP Schematic

