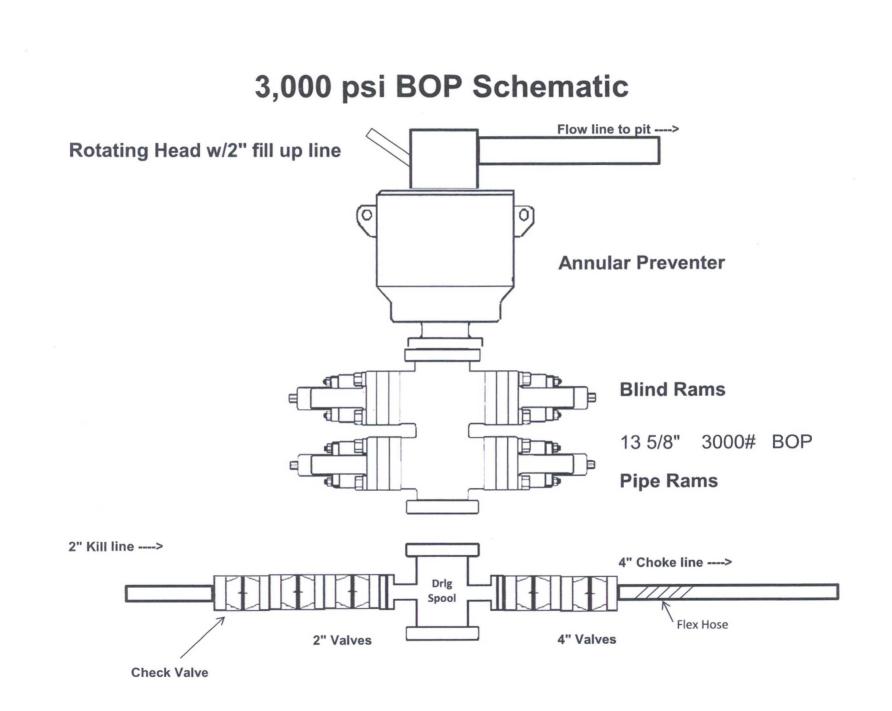


the second s





Internal Hydrostatic Test Certificate

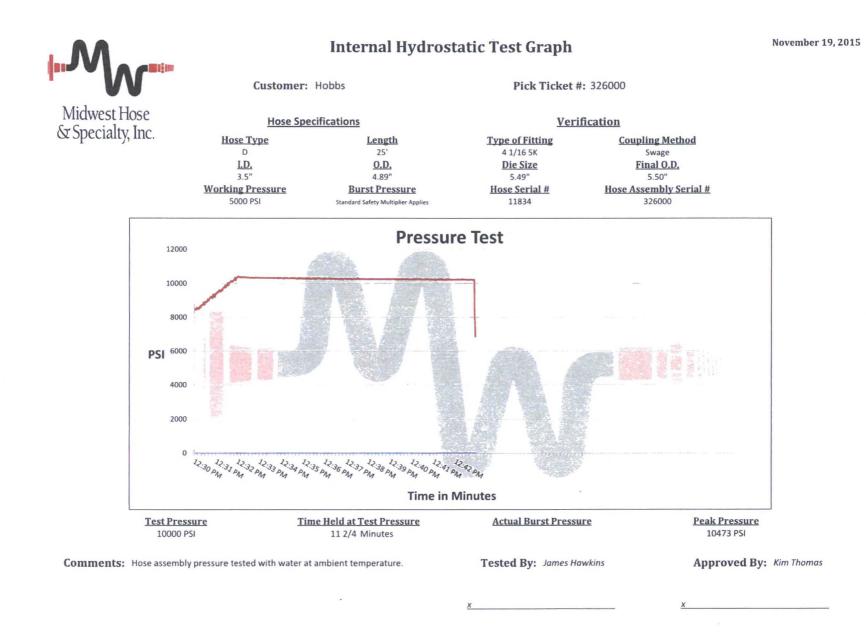
Customer	nation	Hose Spec	ose Specifications		
Lustonier	Hobbs	Hose Assembly Type	Rotary/Vibrator		
WWH Sales Representative	Ryan Rynolds	Certification	API 7K/FSL Level 2		
Date Assembled	11/19/2015	Hose Grade	D		
location Assembled	ОКС	Hose Working Pressure	5000		
Sales Order #	271739	Hose Lot # and 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	ttings	a second second		
End A		End B			
Stem (Part and Revision #)	R3.5X64WB	Stem (Part and Revision #)	R3.5X64WB		
Stem (Heat #)	A144783	Stem (Heat #)	A144783		
Eerrule (Part and Revision #)	RF3.5	Ferrule (Part and Revision #)	RF3.5		
Ferrule (Heat #)	J1628	Ferrule (Heat #)	J1628		
Connection . Flange Hammer Union Par	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"		
WITH MARKED STREET	Hydrostatic T	est Requirements			
Test Pressure (psi)	10,000	Hose assembly was test	ed with ambient water		
Test Pressure Hold Time (minutes)	11 1/2	temper	ature.		

MHSI-008 Rev. 0.0 Proprietary

	Midwest Hose & Specialty, Inc.
Certifie	cate of Conformity
Customer: Hobbs	Customer P.O.# 302337
Sales Order # 271739	Date Assembled: 11/19/2015
S	pecifications
Hose Assembly Type: Rotary/Vibra	tor
Assembly Serial # 326000	Hose Lot # and Date Code 11834 11/14
Hose Working Pressure (psi) 5000	Test Pressure (psi) 10000
Ve hereby certify that the above material support o the requirements of the purchase order and Supplier: Midwest Hose & Specialty, Inc. 1312 S I-35 Service Rd Oklahoma City, OK 73129 Comments:	olied for the referenced purchase order to be true according current industry standards.
Approved By Afrim Atomas	Date 11/19/2015

3

MHSI-009 Rev.0.0 Proprietary

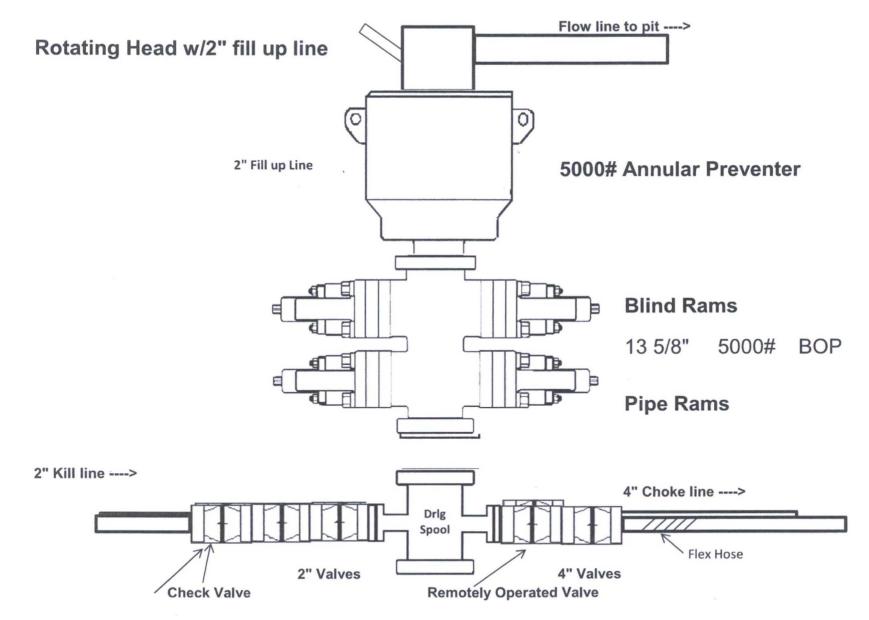


Hose Assembly & Test Report

Mar Midwest Hose & Specialty, Ind		y & Test Report			
General Inform	A REAL PROPERTY OF A REAL PROPER	HoseSpecifications			
Customer	Hobbs	Hose Assembly Type	chowe + kill		
Date Assembled	6-26-14	Certification	APE 7K		
Location Assembled	DIEC	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)	J. 5 indheis		
Hose Assembly Length (Feet and Inches)	50 Fuer	Hose O.D. (Inches)	5.49		
Contact Information Phone #		Armor (yes/no)	YES		
CARDEN STATES	Fit	tings	the same say of the same and the same same same same same same same sam		
End A	an a	End B	Contract on the Arrival Association and whether an experimentary of the Arrival Statements		
Stem (Part and Revision #)	R3.5XL4WD	Stem (Part and Revision #)	R3.5x644B		
Stem (Heat #)	13/14050225	Stem (Heat #)	13114050225		
Stem (Rockwell Hardness HRB #)		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 #)	Amongo		
Connection (Part #)	4/10 5K	Connection (Part #)	4"/16 5K		
Connection (Heat #)	VJJLD	Connection (Heat #)	V3360		
Connection (Brinell Hardness HB #)	-	Connection (Brinell Hardness HB #)	-		
Stress Relief #	17614	Stress Relief #	17614		
Nelding #	MKR	Welding #	MKR		
(-ray #	-	X-ray #			
TURBUS CARD	Assembly I	nformation	and the second second		
End A		End B	01100		
skive O.D. (Inches)	5.04	Skive O.D. (Inches)	4.42		
wager Dies (1st pass)	5.62	Swager Dies (1st pass)	5.53		
Swager Dies (2nd pass)		Swager Dies (2nd pass)	10		
Final Swage O.D. (Inches)	5.1.4	Final Swage O.D. (Inches)	2210		
ompression % (See Crimp Calculator)	14/10 //	Compression % (See Crimp Calculator)	6610		
waged By	Janes	17th	maaanaataanataa kata oo sood a tiritiin ahaa dhidii (6994)		
1 1	1	t Requirements	121/1		
Test Pressure (psi)	10.000	Hold Time (minutes)	1214		
rested By	lose Assembly bas here and	Juate Testea Isfactorily tested in accordance with MHSI	6-26-14 Infocedure 8.2.4.2		
nus a to certify that the above h	Final Ver	and a local sector of the sect			
Luc gu	(e) No	Hammer Unions	Yes to		
Index and the second seco	Yes No	Safety Clamps	Yes dtd		
hird Party Witness	Customer or Third Par				
<u>A</u>					

MHSI-004 Rev. 3.0 Proprietary

5,000 psi BOP Schematic



Casing Program

Hole Size	Casing Interval		Csg. Size	Wei		Conn.	SF	SF Burst	SF
Hole Size	From	То	Usg. S	(lb		Conn.	Collapse	SF Burst	Body
17.5"	0	895	13.37	5" 68	3 J55	STC	4.76	0.79	11.09
12.25"	0	11887	9.625	" 4	7 L80	BTC	1.28	1.15	1.94
8.5"	0	22,439	5.5"	23	3 P110	втс	2.01	2.12	2.51
BLM Minimum Safety Factor				1.125	1	1.6 Dry 1.8 Wet			

Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse. Surface burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface and All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h