PRESSURE TEST DATA SHEET

MBARI 600m Ti Sphere Housing

Chris Ferrier

Test Technician:	
Design Engineer:	Mark Greise

Date:	14 JAN 14
Test Tank:	20" Chamber

Test Pressure (psi):	9620
Housing S/N:	1001104
Drawing/Rev No:	1001104DWG

Max Rate (psi/min):	500
End Cap S/N:	1001102 REV A
Soak Time	1 hr

TEST PROCEDURE:

1. Seal Article to be tested and check for large leaks w/ 30-50 psi shop air pressure and/or vacuum if test fitting exists on test article.
2. Bring article to test pressure specified above, do not exceed maximum pressurization rate. Record time
3. Hold at test pressure +/- 2% for 1 minute
4. Bring article to ambient pressure, do not exceed maximum pressurization rate
5. Hold at ambient pressure for 1 minute
6. Repeat step 2-5 for a total of 5 times and hold at test pressure for soak time specified above.
7. Record time test article reaches last ambient pressure.
8. Disassemble test article and inspect for leaks and/or permanent deformation.
9. Record all significant observation on data sheet.

Cycle No.	Start Time	Max Hold Press (psi)	Min Hold Press (psi)	Comments
1	0833 - 909	9620	190 - 1min	9:09 - 1000psi - 1MCN
2	0917 - 935	9620	70	
3	943 - 1009	9620	70	10 09
4	~~1020~~ 1043	9620 - 1020	1212 70	1019
5	1050	1110 - 1 hr - hold	end 70	9580 after Soak
6				
7		12 15 finish		
8				
9	120	Finish inspection & rec rate		
10				
Test Complete				

Comments: ~ 40psi drop - 1218 Finish - drain & inspect

Inspection revealed no damage to housing or O-rings and no water intrusion. Wood particles from plugs were found in base, recommend cleaning and new O-rings used prior to assembly for sub sea use

Test Complete	Satisfactory	Not Satisfactory	Date
Test Technician			1/14/14
Test Engineer			