Bill Reports Cost Centers Us	ers Roles Files SEARCH	kittie Log Ou
New Cost Center New U	ser New Role	
Show Client		
Name	Oceangate Inc.	
Address	1205 Craftsman Way, Suite 112 Everett, WA 98201	
Admin Phone		
Technical Phone		
Admin Email		
Technical Email		
Bill Reports	21Dec Oceangate: \$2000.00 01/04/22 OTS2568 Paid 20AugOceangate: \$2600.00 08/27/20 OTS2343 Paid 20JulyOceangate: \$1160.00 07/28/20 OTS2332 Paid 18MayOceangate: \$800.00 05/29/18 OTS1833 Paid 16JulOceangate: \$3115.00 07/25/16 OTS1247 Paid OceanGate PV Mar 2016: \$800.00 03/30/16 OTS1147 Paid OceanGate PV Feb 2016: \$480.00 03/02/16 OceanGate PV Dec 2015: \$485.00 01/08/16 OTS1087 Paid APL Dyer/OceanGate PV December 2015: \$0.00 01/07/16	
Total Bills: \$11,440.00		
Cost Center	Pressure Test Vessel	
Projects	APL Dyer/ OceanGate	

Bill Reports Cost Centers Us	ers Roles	Files	SEARCH	kittie	Log Ou
New Cost Center New U	ser New F	Role			
Bill Report					
Incremental #	OTS2568				
Reference #	21Dec Oceanga	ate			
PO #	30Nov_1Dec Pr	ressure Testing			
Total	\$2000.00				
Bill Notes	Payment poste	d on 2/24/22.			
Client	Oceangate Inc.				
Cost Center	Pressure Test V	essel			
Service Begin Date	01-04-2022				
Service End Date	01-04-2022				
Invoice Date	01-05-2022				
Date Paid	01-05-2022				
Items	Total	Description	Hours/Qty	Rate	
	\$2000.00	Pressure Testing	Hours/Qty: 12.5	Rate: \$166.00/hr	

Bill Reports Cost Centers Us	ers Roles	Files	EARCH	kittie Log Ou
New Cost Center New U	ser New I	Role		
Bill Report				
Incremental #	OTS2343			
Reference #	20AugOceanga	ate		
PO #	August 2020 P	ressure Testing		
Total	\$2600.00			
Bill Notes	Payment poste	d on 9/28/20		
Client	Oceangate Inc.			
Cost Center	Pressure Test V	essel		
Service Begin Date	08-27-2020			
Service End Date	08-27-2020			
Invoice Date	08-28-2020			
Date Paid	08-28-2020			
Items	Total	Description	Hours/Qty	Rate
	<u>\$2600.00</u>	Aug20 Pressure Testing	Hours/Qty: 16.25	Rate: \$166.00/hr

Bill Reports Cost Centers Us	ers Roles	Files	SEARCH	kittie Lo	g Ou
New Cost Center New U	ser New F	Role			
Bill Report					
Incremental #	OTS2332				
Reference #	20JulyOceanga	te			
PO #	27JulyPressure	Test			
Total	\$1160.00				
Bill Notes	Payment posted	d on 8/24/20			
Client	Oceangate Inc.				
Cost Center	Pressure Test Ve	essel			
Service Begin Date	07-28-2020				
Service End Date	07-28-2020				
Invoice Date	07-29-2020				
Date Paid	07-29-2020				
Items	Total	Description	Hours/Qty	Rate	
	<u>\$1160.00</u>	Pressure Test	Hours/Qty: 7.25	Rate: \$166.00/hr	

Bill Reports Cost Centers Us	ers Roles	Files	SEARCH	kittie	Log Out
New Cost Center New Us	ser New	Role			
Bill Report					
Incremental #	OTS1833				
Reference #	18MayOceang	ate			
Worktag	99zz				
PO #	10May18 Pres	sure test			
Total	\$800.00				
Bill Notes	Payment poste	ed on 6/11/18			
Client	Oceangate Inc	<u>.</u>			
Cost Center	Pressure Test	<u>/essel</u>			
Service Begin Date	05-10-2018				
Service End Date	05-10-2018				
Invoice Date	06-01-2018				
Date Paid	06-01-2018				
Items	Total	Description	Hours/Qty	Rate	
	\$800.00	Pressure Test	Hours/Qty: 5.0	Rate: \$166.00/hr	

Bill Reports Cost Centers Us	ers Roles	Files		kittie Log Out
New Cost Center New Us	ser New	Role	_	
Bill Report				
Incremental #	OTS1247			
Reference #	16JulOceanga	ate		
Worktag	99zz			
PO #	7Jul16 Pressu	re Test		
Total	\$3115.00			
Bill Notes	Payment post	ed on 9/20/16		
Client	Oceangate Ind	<u>).</u>		
Cost Center	Pressure Test	Vessel		
Service Begin Date	07-07-2016			
Service End Date	07-07-2016			
Invoice Date	08-03-2016			
Date Paid	08-02-2016			
Items	Total	Description	Hours/Qty	Rate
	<u>\$75.00</u>	Replacement Filters and Cleanup Equipment	Hours/Qty: 75.0	Rate: \$1.00each
	<u>\$1920.00</u>	Cleanup and repairs	Hours/Qty: 12.0	Rate: \$166.00/hr
	<u>\$1120.00</u>	Setup and pressure test	Hours/Qty: 7.0	Rate: \$166.00/hr

Bill Reports Cost Centers Us	ers Roles	Files	SEARCH	kittie Log Out
New Cost Center New Us	ser New	Role		
Bill Report				
Incremental #	OTS1147			
Reference #	OceanGate P	/ Mar 2016		
Worktag	99zz			
PO #	11Mar16 Pres	sure Test		
Total	\$800.00			
Bill Notes	Payment post	ed on 4/14/16		
Client	Oceangate Ind	<u>).</u>		
Cost Center	Pressure Test	Vessel		
Service Begin Date	03-11-2016			
Service End Date	03-11-2016			
Invoice Date	03-31-2016			
Date Paid	03-31-2016			
Items	Total	Description	Hours/Qty	Rate
	\$800.00	Pressure Test 11Mar	Hours/Qty: 5.0	Rate: \$166.00/hr

Sill Reports Cost Centers Us	ers Roles F	iles	SEARCH	kittie	Log Ou
New Cost Center New Us	ser New Ro	ble			
Bill Report					
This bill report is on hold					
Reference # Total Client Cost Center Service Begin Date Service End Date Items	Oceangate Inc. Pressure Test Ver 02-01-2016		Hours/Qty	Rate	
	<u>\$480.00</u> Add an Item		Hours/Qty: 3.0	Rate: \$166.00/hr	

Bill Reports Cost Centers Us	ers Roles Files SEARCH kittie Log Out
New Cost Center New Us	ser New Role
Bill Report	
Incremental #	OTS1087
Reference #	OceanGate PV Dec 2015
PO #	2016-101
Total	\$485.00
Bill Description	UW pressure vessel
Bill Notes	payment posted on 1/20/16
Client	Oceangate Inc.
Project	PDF
	APL Dyer/ OceanGate
Cost Center	Pressure Test Vessel
Service Begin Date	12-21-2016
Service End Date	12-21-2016
Invoice Date	01-08-2016
Date Paid	01-08-2016
Items	Total Description Hours/Qty Rate
	\$485.00 UW pressure vessel Hours/Qty: 5.0 Rate: \$103.00/hr

II Reports Cost Centers Us	ers Roles	Files	SEARCH	kittie Log O
New Cost Center New Us	ser New F	Role		
ill Report				
This bill report is on hold				
This bill report has no items				
Reference # PO #	APL Dyer/Ocea 2016-101	anGate PV December 20	15	
Client	Oceangate Inc.			
Project	APL Dyer/ Oce	anGate		
Cost Center	Pressure Test V	<u>/essel</u>		
Service Begin Date	12-01-2015			
Service End Date	12-31-2015			
Invoice Date	01-08-2016			
Items	Total	Description	Hours/Qty	Rate

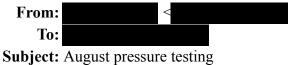
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OceanG	ate, Inc.				Date: P.O. #: Customer ID:	January 4, 2016 2016-101
Vendor:			Ship to:			
	A DI	5 ³		OceanGate. Inc 1205 Craftsman V Everett, WA 9820	Way #112	
Department	alina (a la sa c	Asser	Chart #	Class	QUOTE	n 16 74 24
Water/Sub Shipping Met	hod	1602 Shipping Terms	ana ana araa ah		Delivery Date	
25		T 131 127 1282-131	1 - 11 - 11 - 11 - 11 - 11 - 11 - 11 -			a nastra n
Qty	ltem #	Description	ana a sec	Job	Unit Price	Line Total
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2. Enter this ord- specifications lis 3. Please notify 4. Send all corre K.Thompson OceonGate, IF 9825 141st PL N 425-939-8409	wa copies of your inve er in accordance with sted above. us immediately if you spandence to:	the prices, terms, delivery m are unable to ship as specifik 072			Subto Sales 1	the second second second
	Note:	Terms Net30	4. A.			\$ 485.00

CoechOote, No. 1203 Crobsman May #112 Everent 144 98201

CG-032





Date: Thu, 30 Jul 2020 03:38:56 -0700

Hi

;

Would you like me to hold August 11-13 for you? If not, I need to know ASAP so that I can open those dates up for other users/tests and cancel the night test. Thank you;

<pre>>><(((*> }><(((*> }><(((*>)><(((*>)><(((*>)><(((*>)><(((*>)><(((*>)><(((*>)><(((*>)><(((*>))))))))))))))))))))))))))))))))))</pre>
, Oceanographer. University of Washington.
Marine Chemistry Laboratory Pressure Test Vessel
Lab: Pressure Vessel: Office/VM:
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## Subject: Ballsting

Date: Tue, 4 Aug 2020 09:26:07 -0700

# Hi

I see that you are ballasting again this week. Because I will be running the vessel for Oceangate next week, and they have a history of catastrophic failures (implosions-just last week as a matter of fact), I suggest that you remove your connector at the conclusion of your testing, seems to worry about it if there are implosions....

Cheers;

}><(((*> }><(((*> }><(((*> }><(((*> }><(((*> )><(((*> )><(((*> )><(((*> )><(((*> )><(((*> )><(((*> )><(((*> )><(((*> )><(((*> )><(((*> )><(((*> )><(((*> )><(((*> )><(((*> )><(((*> )><(((*> )><(((*> )><(((*> )><(((*> )><(((*> )><(((*> )>)><(((*> )><(((*> )>)><(((*> )>)><(((*> )>)><(((*> )>><(((*> )>)><(((*> )>)><(((*> )>)><(((*> )>)><(((*> )>)><(((*> )>)><(((*> )>)><(((*> )>)><(((*> )>)><(((*> )>)><(((*> )>)><(((*> )>)><(((*> )>)>)><(((*> )>)>)><(((*> )>)><(((*> )>)>)>)><((*> )>)><((*> )>)><((*> )>)>><((*> )>)><((*> )>)><((*> )>)><((*> )>)><((*> )>)><((*> )>)>)><(*>)>>><(*>)>>><(*>)>>><(*>)>>><(*>)>>><(*>)>>><(*>)>>><(*>)>>><(*)>>><(*)>>><(*)>>><(*)>>><(*)>>><(*)>>><(*)>>><(*)>>><(*)>><(*)>>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*)>><(*



### Applied Physics Laboratory

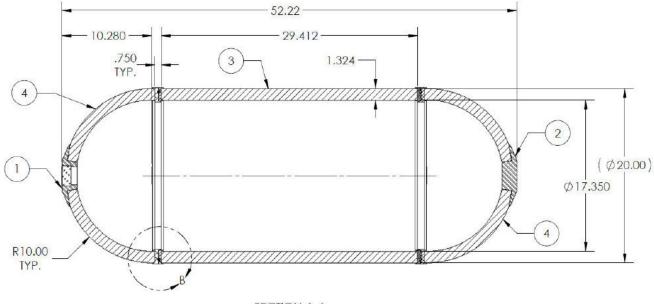
University of Washington

1013 NE 40th Street Box 355640 Seattle, WA 98105-6698



### Cyclops 1/4 Scale Pressure Hull Pressure Test

The following is the procedure for the pressure test of the Oceangate ¹/₄ Scale pressure hull system. The objective of the test is to validate the pressure vessel design is capable of withstanding seawater pressure corresponding to operating in the ocean at a depth of 6000 meters. The pressure vessel configuration is shown in Figure 1. The pressure vessel material is fiber spun carbon fiber with 17-4 PH1100 stainless steel interface rings.





Strain gages will be installed and monitored during this test. All gages will be internal to the test article and the signals will be brought out of the pressure test chamber via the Seacon connectors installed in the pressure chamber endcap. All strain data will be captured and recorded with an external laptop computer provided by APL-UW and operated by APL-UW.

The vessel will be received by APL-UW, which will then be transported to the School of Oceanography pressure test chamber (http://www.ocean.washington.edu/story/Pressure+Test+Vessel) located in Ocean Science Building at the University of Washington. The test will be conducted by a statement of TBD.

Pre and Post-test pressure vessel weights will be recorded as best as possible.

Pre-test weight _____

Post Test weight _____

The vessel will be suspended form the pressure test chamber top enclosure by way of a bridle. Ballast will be suspended from the bottom of the test article to prevent the test article from contacting the pressure chamber endcap once the chamber is filled with water. The vessel will be lowered into the test chamber, the chamber filled with water and the pressure test will begin. Standard operating procedures utilized by the OSB test chamber operator and the following pressure profile will be followed: Depressurization

Test Step	Pressure Goal (psi)	SW Equivalent Depth (m)	Actual Pressure (psi)	Dwell Duration (minutes)	Cumulative Test Time	Comments
1	100	68		5		
2	500	342		5		-
3	1000	685		5		
4	1500	1027		5	4	
5	2000	1369		5		
6	3000	2054		5		
7	4000	2739		10		
8	5000	3424		5		
9	5850	4006		10		
10	6500	4451		5		
11	7500	5135		5		1
12	8775	6009		5		
13	9640	6601		15		Maximum allowable pressure for test chamber
Depressu	rization					-
1	9400	6436	1	5	7	
2	5850	4006		5		
3	3000	2054		5		
4	100	68		5		
5	0	0				

1) Pressure test to 9640 psi (or maximum allowed pressure) – this pressure is considered to provide testing to 6000 m with safety factor of greater than 1.0. The test will include stops at:

* Max pressure increase rate of 1 to 2 m/s (88 to 175 psi per min)

* Max depressurization rate of 1 to 3 m/s (88 to 265 psi per min)

Dwell time at intermediate steps will be long enough to verify the pressure vessel is holding pressure. Dwell time at full pressure will be 15 minutes minimum or at the discretion of the test operator.

Total test time is anticipated to be TBD hours (hanging of vessel to removing vessel)

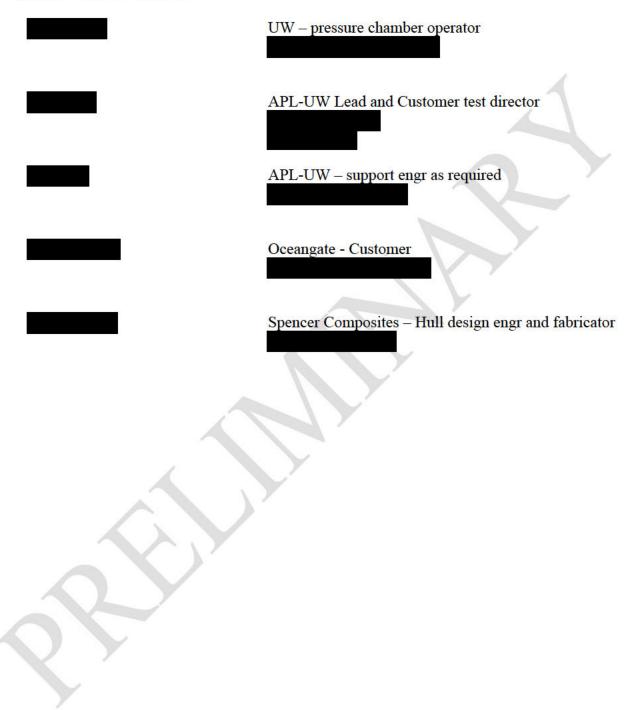
Following the full depth pressure test, the pressure will be relived at a control rate of 1 to 3 m/s ascent (88 to 265 psi) as close to as possible to the target ascent rate.

A second pressure test may be conducted.

The pressure vessel will be removed from the test chamber and the pressure vessel weight will be recorded.

Test data logged by the test operator will be emailed to the second data which will then be forwarded to Oceangate.

The following personnel will observe the pressure test in the test chamber room at the discretion of the OSB pressure chamber operator:



No part of a report of a marine casualty investigation shall be admissible as evidence in any civil or administrative proceeding, other than an administrative proceeding initiated by the United States. 46 U.S.C. §6308.	
From: <	
To: " <	
Subject: Fwd: Would like to schedule a pressure test. (fwd)	
Date: Tue, 28 Nov 2017 13:13:44 -0800	
Importance: Normal	
Higher ; Good to hear from you, it's been awhile! It sounds like you won't have any carbon fiber at all this tin so we can go ahead and run your assemblies. At what pressure would you like them tested? If you need testing above 6000PSI we'll have to schedule a building closure (like we have done for you in past) Can we run them all at once or would we have to do multiple runs? Dimensions would be helpful. Cheers;	L

Forwa	rded message	
From: <		
Date: Mon, No	v 27, 2017 at 1:36 PM	
Subject: Re: W	ould like to schedule a pressure	test. (fwd)
To: "T.	<	

Forwarded message	
Date: Mon. 27 Nov 2017 21:27:02 +0000	

From:	<			
To: "		$\triangleleft$		
Cc: "		<		n
Subject: Re: W	ould like to	schedule a j	pressure test.	

Hi,

, here, from OceanGate. We did a pressure test at your facility back in ~June/July of this year.

We'd like to schedule another pressure test with you in December. It won't be another 1/3 scale of our hull. It'll just be smaller components/assemblies we've designed.

All the best,

**Director of Engineering** 

OceanGate, Inc.

CG-032

No part of a report of a marine casualty investigation shall be admissible as evidence in any civil or administrative proceeding, other than an administrative proceeding initiated by the United 1205 Craftsman Way Suite 112 Everett, WA 98201
(direct)
(office) www.oceangate.com
From: Sent: Tuesday, May 31, 2016 4:10:28 PM
To: Cc: Subject: Would like to schedule a pressure test.
Hello,
I was passed along your contact information from and and and the We, at OceanGate, would like

to schedule another test in your facility for our 1/3 scale article.

What number is best to call so I can schedule a test and get all the requirements from you?

Our target test date would be ~June 24th.

Kindest regards,

**Director of Engineering** 

OceanGate, Inc.

1205 Craftsman Way Suite 112

Everett, WA 98201

Mobile:

www.oceangate.com

<pre>&gt;&gt;&lt;(((*&gt; }&gt;&lt;(((*&gt; }&gt;&lt;(((*&gt; )&gt;&lt;(((*&gt; )&gt;&lt;(((*&gt; )&gt;&lt;(((*&gt; )&gt;&lt;(((*&gt; )&gt;&lt;(((*&gt; )&gt;&lt;(((*&gt; )&gt;&lt;(((*&gt; ))))))))))))))))))))))))))))))))))</pre>
, Oceanographer. University of Washington.
Marine Chemistry Laboratory Pressure Test Vessel
Lab: Pressure Vessel: Office/VM:
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or administrative proceeding, other than an administrative proceeding initiated by the United States 46 U S C 66308

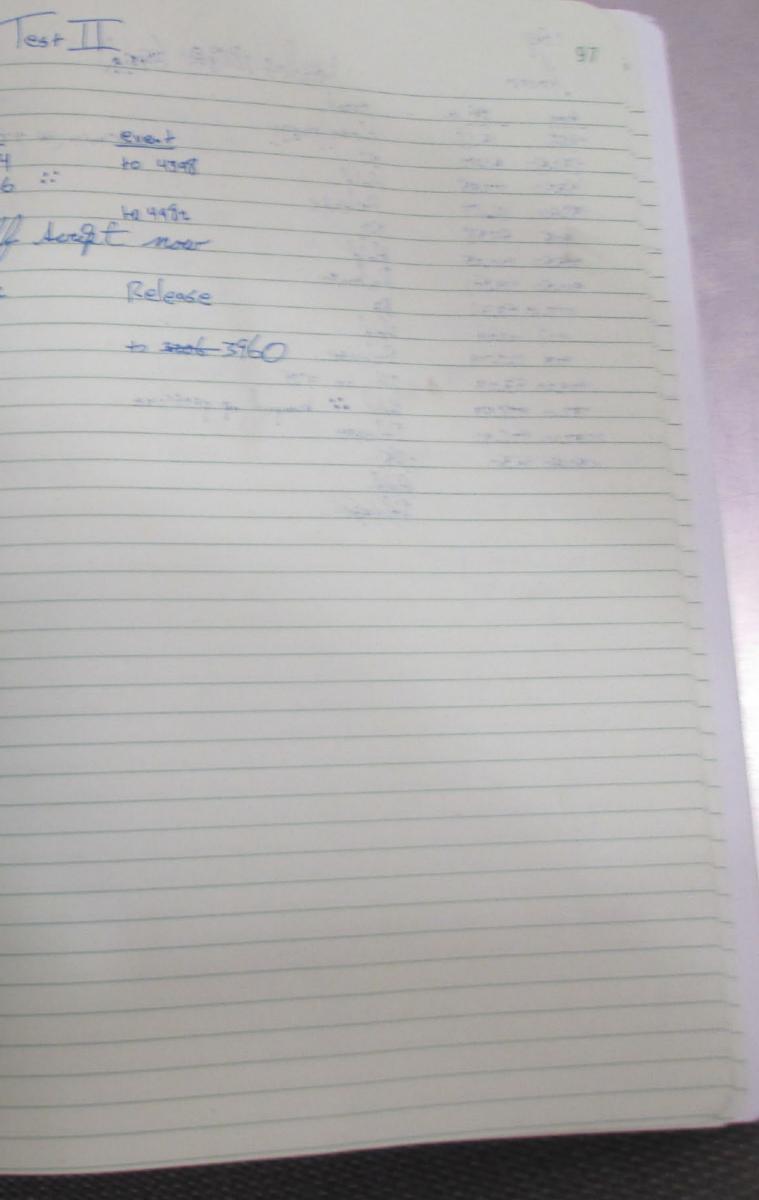
Oceangate C.F. cylinder loaded w/wood + non-compressible CA: 20" OD 45" Long Moninum end caps wrapped w/garden type ground cover 10 Event PSI 0 16.95 close prorge 55.00 1.30 1002.07 Hold 5 1010 Go To 1500 3.50 1507.11 ->2K 10550 2008.36 509.50 200Z >2500 511.30 2506.93 812 2504 ->3K 814.04 3004.53 -> 3500 1814.50 3003.31 1817 3504.58 74000 619 3502 1820.50 4009.18 1823.20 4007-32 74500 85.30 4508.66 ->5000 1930.40 5001.15 -24500 134 4500 -75000 637.30 5005.63 -75500 1810-30 5506.17 -25000 -75500 1843.20 4994.21 -76000 1845 5505.13 -75500 1852.20 6004.21 -76000 1903.40 550 7.54 ->6500 pressure hensor gone? - No just disconnet HUP 190440 6003.68 FAIL 1912.50 6501.84

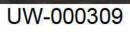
100 + Camera Unit + Foam Gran 28 Maril Oceangate - Aluminum Can + 30 Plastic PSI 12.20 15.40 Event, 1126.20 15.69 Close purge RI hold @55 ~55 1137.00 55.33 302.27 -1152 -53 RZ to 500 Hold 139 301.90 1154.30 500.25 446 57.46 1156.10 498.61 R3 10 1000 164.40 602.64 1158 1002.30 Hold · bumped up pressure 902.30 1118.19 1211.40 1001.30 Release 905 1491.40 184/16/1960 the there 915 1490.54 Ull WIL 424.40 57.00 1504.30 17.71 RY to tooo 500 972,40 746.13 1506,30 503.92 536.30 1491.95 1507.00 503 1508.20 100 1001.84 946.30 1491.12 Hold 1510.40 100 1000.13 155.30 56.13 Release 1521.40 16.64 1004 745.86 R5 to 100 \$000 1525.30 1000.50 1008.10 1491.44 1527 1001.00 To 2810 1018.10 1490.39 1531.50 2809.43 Hold 1026.50 53.89 1535 2805 To 3300 1035 746.06 1537 3302.15 Hold 1039 1491.96 1544 3300 10 3800 1049 1490.99 1545.50 3801.71 Hold 1057.30 57.71 3800 10 4300 1105.40 745.78 1548 4300 110.40 1641.79 1550 4800 104800 1140.40 1641.80 Hold :: · bumped up prossure 4800 05300 Ta55 1400 1556.40 4800 Hold :. 1558.20 5301.40 1602.40 5300 To 5800 Fail 5500 a



sualty investigation shall be admissible as evidence in any civil her than an administrative proceeding initiated by the United States. 46 U.S.C. §6308.

Oceaningate 56 noter close/purse (Filter blew of @ 1975 Pic . time pri 10 51.94 813 15.41 riolding close/purge - restart ast 4836 :: 295 1058 1547 Pit ff Well ? 1106 53.32 C.E. and caps leaking 5153 1534 441 5% 3Aug one -04+ Phi event time time PSi event 15.47 853 close/purge 1124.30 4399.46 : bo +45 400 51.87 1134.30 4397.72 Release 795 904 to 1476 909 744 411-40 1480.34 1000 916.40 1474.53 919.30 2211.54 +0 2937 924.30 2206.40 927.30 2939.70 " Release 937.30 2936.67 10 745 1006:40 58 1009 74931 101476 1014 747.54 1016-40 1479-24 60.2206 1021.40 HT7.34 1025 2210.35 10 2937 1030 2206-82 1033 2943.08 +03667 1038 2937.76 1040.40 3668.95 10.99.58 104850 3658.33 1047.40 2941.72 10 3667 055 to 2939 -05230 3670.34 +0 4398 1102.30 3666-33





No part of a report of a marine casualty investigation shall be admissible as evidence in any civil or administrative proceeding, other than an administrative proceeding initiated by the United States. 46 U.S.C. §6308. 66 11 March 2016 Ucean Gaste Test pressure: Carbon fiber hull w/c.f. hemisphere end caps wedget Time Event Pressure close tank + purge air up-to 500 ps: up-to 4009.01 in 500 psi steps - failure at 4004 - top endcap impladed 1900 16.71 910 55,60 CG-032 UW-APL/ OceanGate Testing Documentation and Emails 23 of 38 UW-000310





	est Vessel - Februa		ASSISTED		UNASSISTED		NON-UW	
DATE	NAME	BUDGET #	<u>\$97.00</u>	CHARGE	\$62.00	CHARGE	\$160.00	CHARGE
2-Feb	Teledyne Instruments	PO#	<u>397.00</u>	CHARGE	<u>302.00</u>		<u>\$160.00</u> 6.50	\$1,040.00
2-Feb 3-Feb	Teledyne Instruments	F0#					1.50	\$1,040.00
4-Feb	Teledyne Instruments						4.00	\$240.00
5-Feb	Teledyne Instruments						1.50	\$240.00
8-Feb	OceanGate						3.00	\$480.00
9-Feb	Teledyne Instruments						4.00	
9-Feb 11-Feb	Teledyne Instruments						5.25	\$640.00
П-гер							1.00	\$840.00
	Williamson	00.0007			0.00	¢404.00	1.00	\$160.00
12-Feb		66-9907			2.00	\$124.00		
15-Feb		66-9907			6.00	\$372.00	7.50	<u> </u>
16-Feb	Teledyne Instruments						7.50	\$1,200.00
18-Feb	Teledyne Instruments						5.00	\$800.00
22-Feb		66-9907			6.00	\$372.00		
23-Feb		66-9907			8.00	\$496.00		
24-Feb	Teledyne Instruments						4.00	\$640.00
25-Feb	Teledyne Instruments						4.00	\$640.00
29-Feb	Leidos						5.00	\$800.00
	Teledyne Instruments						1.50	\$240.00
		<u>column totals</u>	0.00	\$0.00	22.00	\$1,364.00	53.75	\$8,600.00
							month total =	\$9,964.00
	totals by client							
	Teledyne BlueView	PO	\$7,160.00					
	OceanGate		\$480.00					
	Williamsom		\$160.00					
			\$1,364.00					
	Leidos		\$800.00					
			<i>\</i>					

States. 46 U.S.C. §6308.

month total = \$9,964.00

	eport of a marine casualty investigation shall be admissible as evidence in any civil rative proceeding, other than an administrative proceeding initiated by the United
	States. 46 U.S.C. §6308.
From:	
To:	
Subject: Pressu	re Vessel Charges
Date: Wed, 2	20 Jul 2016 11:14:51 -0700
Attachments: Ocean	GateItemizedCharges7_7_16.xlsx

Hi

Just to give you a heads up before you see the actual invoice in August, please find attached a spreadsheet itemizing the charges for the 7Jul16 pressure test. Charges include:

Setup and test Cleanup and repairs Cleanup equipment Replacement parts

The good news is the pressure sensor is fine (that is actually an \$8000 part).

UW Pressure Vessel

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No part of a report of a marine casualty investigation shall be admissible as evidence in an or administrative proceeding, other than an administrative proceeding initiated by the Un	
States. 46 U.S.C. §6308.	
To:	
Cc: "	
Subject: Re: OceanGate test plan 11/30 - 12/1	
Date: Mon, 29 Nov 2021 09:36:42 -0800	
Importance: Normal	
7am is good. I don't think the ice has to be melted before we pressurize, but the ramp rate/characteristics will be interesting What say you and ? I'm in the lab this morning Cheers;	
On Mon, Nov 29, 2021 at 9:13 AM wrote:	
I was hoping to get there around 7 AM tomorrow.	
We're going to load up all the gear tonight, and I'll get the ice at Safeway or QFC tomorrow A	AM.
I now live so I'm very close.	
Does all the ice need to melt before the chamber can be pressurized?	
I might try and call later today - is there a preferred number?	
Thanks,	
From: Sent: Monday, November 29, 2021 6:52 AM To: Cc: Subject: Re: OceanGate test plan 11/30 - 12/1	
What time would you like to get started tomorrow? I'm usually in by 6, but I don't kr time you want to allow for chilling of the water in the vessel Thanks;	now how much
On Thu, Nov 18, 2021 at 4:32 PM wrote:	
has shared a OneDrive for Business file with you. To view it, click the link below.	
UW Pressure Chamber Test Plan.docx	
CG-032 UW-APL/ OceanGate Testing Documentation and Emails	28 of 38

,	No part of a report of a marine casualty investigation shall be admissible as evidence in any civil or administrative proceeding, other than an administrative proceeding initiated by the United States. 46 U.S.C. §6308.
Here is	our test plan.
Thx	
Marine Che	$\frac{1}{2} > <(((*>)) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*>))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*))) > <(((*$
Lab:	Pressure Vessel: Office/VM: ~~~~~<0> ~~~~~<0> ~~~~<0> ~~~~<0>

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, Oceanographer. University of Washington.
Marine Chemistry Laboratory Pressure Test Vessel
Lab: Pressure Vessel: Office/VM:
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No part of a report of a marine casualty investigation shall be admissible as evidence in any civil or administrative proceeding, other than an administrative proceeding initiated by the United
States. 46 U.S.C. §6308.
From: <
To:
Cc:
Subject: Re: Would like to schedule a pressure test.
<b>Date:</b> Fri, 3 Jun 2016 06:49:32 -0700
Importance: Normal
•
Hi and al After much deliberation and consultation we've decided that we can do the test but with a couple of caveats. Because this is an extremely busy time of year for us, we cannot afford to have any down time with cleanup or repairs to the pressure vessel. So, we would prefer the test to run to a max PSI of 9500-9800. But, given that you would like to test your pressure housing to our maximum allowed pressure, and that you acknowledge that this may be a pressure test to failure, we request that the pressure housing be filled as completely as possible with wood or another fairly incompressible dunnage material to help mitigate any possible implosion. We would also like to request that the article be wrapped or placed in a fabric bag to reduce the amount of detritus in the pressure vessel if the housing does implode. If you're able to accommodate these requests, we're happy to schedule an overnight test for you on the 24th. Cheers;
On Fri, Jun 3, 2016 at 5:38 AM, Good morning,
I set up a meeting for Monday morning to discuss this test. Both of you may not need to join, but feel free to.
How are we looking to test on the 24th?
Best,
Director of Engineering OceanGate, Inc. 1205 Craftsman Way Suite 112 Everett, WA 98201 Mobile: www.oceangate.com
Original Message From: Sent: Wednesday, June 1, 2016 11:05 AM Cc: Subject: RE: Would like to schedule a pressure test.

I have forwarded your emails to **second and he will be in tomorrow morning and will be able to discuss** scheduling, etc. Pressure vessel is 8' deep and 24" in diameter.

No part of a report of a marine casualty investigation shall be admissible as evidence in any civil or administrative proceeding, other than an administrative proceeding initiated by the United States. 46 U.S.C. §6308.
On Wed, 1 Jun 2016, wrote:
> Hello, e.
> Any thoughts?
> Also, what are the dimension limitations of your pressure vessel?
> >Best,
>
> Director of Engineering > OceanGate, Inc.
> 1205 Craftsman Way Suite 112
> Everett, WA 98201
> Mobile: > www.oceangate.com
> <u>www.occaligate.com</u>
>Original Message
> From:
> Sent: Wednesday, June 1, 2016 4:41 AM > To:
> Cc:
> Subject: RE: Would like to schedule a pressure test.
> > Good morning,
> Cood morning,
> We want to take the article to your facilities maximum capability. This may be a destructive test for us.
> Would Friday June 24th work for us? The previous tests we conducted at your facility had to be conducted
at night (after normal working hours). I'm assuming that would be the same for this iteration, correct?
>Best,
> Director of Engineering
> OceanGate, Inc.
> 1205 Craftsman Way Suite 112
> Everett, WA 98201 > Mobile:
> www.oceangate.com
>
>Original Message
> From: > Sent: Tuesday, May 31, 2016 5:20 PM
> To:
> Cc:
> Subject: RE: Would like to schedule a pressure test.
>
> is out of the lab until tomorrow. Email is the best way to schedule. What is your test protocol?

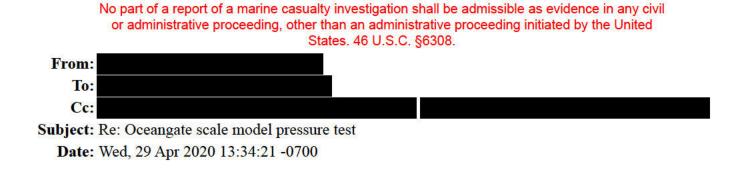
No part of a report of a marine casualty investigation shall be admissible as evidence in any civil or administrative proceeding, other than an administrative proceeding initiated by the United
> States. 46 U.S.C. §6308.
> Thanks, >
> On Wed, 1 Jun 2016, wrote:
>> Thanks,
>> Is there a number I can call? Better done by conversation?
>> Cheers!
>> Director of Engineering
>> OceanGate, Inc. >> 1205 Craftsman Way Suite 112
>> Everett, WA 98201
>> Mobile: >> <u>www.oceangate.com</u>
>> <u>www.oceangate.com</u>
>>Original Message
>> From: >> Sent: Tuesday, May 31, 2016 5:01 PM
>> Cc: <pre></pre>
>>
>> Passing your information on to to schedule the test. What test protocol are you wanting to
run for this test?
>> Thanks,
>>
>> On Tue, 31 May 2016, wrote:
>>> Hello,
>>> I was passed along your contact information from and and
>>> We, at OceanGate, would like to schedule another test in your facility for our 1/3 scale
article.
>>>
>>> What number is best to call so I can schedule a test and get all the requirements from you?
>>> what humber is best to can so I can schedule a test and get an the requirements from you?

32 of 38

No part of a report of a marine casualty investigation shall be admissible as evidence in any civil or administrative proceeding, other than an administrative proceeding initiated by the United >>> Our target test date would be ~June 24th. >>> >>> >>> >>> Kindest regards, >>> >>> >>> >>> >>> >>> Director of Engineering >>> >>> OceanGate, Inc. >>> >>> 1205 Craftsman Way Suite 112 >>> >>> Everett, WA 98201 >>> >>> Mobile: >>> >>> <u>www.oceangate.com</u> >>> >>> >>> >>> >>> >>>

> < (((*> ) > (((*> ) > (((*> ) > (((*> ) > (((*> ) > (((*> ) > (((*> ) > (((*> ) > (((*> ) > (((*> ) > (((*> ) > (((*> ) > (((*> ) > (((*> ) > (((*> ) > (((*> ) > (((*> ) > (((*> ) > (((*> ) > (((*> ) > (((*> ) > (((*> ) > (((*> ) > (((*> ) > (((*> ) > (((*> ) > (((*> ) > (((*> ) > (((*> ) > (((*> ) > ((((*> ) ) > (((*> ) > (((*> ) ) > ((((*> ) ) > ((((*> ) ) > ((((*> ) ) > ((((*> ) ) > (((((*> ) ) > (((*> ) ) > ((((*> ) ) > ((((*> ) ) > (((*> ) ) > ((((*> ) ) > ((((*> ) ) > ((((*> ) ) > ((((*> ) ) ) > ((((*> ) ) > ((((*> ) ) ) ) ))))))))))	$\{ > < (((*>) > < (((*>) > < (((*>) > < (((*>) > < (((*>) > < (((*>) > < (((*>) > < (((*>) > < (((*>) > < (((*>) > < (((*>) > < (((*>) > < (((*>) > < (((*>) > < (((*>) > < (((*>) > < (((*>) > < (((*>) > < (((*>) > < (((*>) > < (((*>) > < (((*>) > < (((*>) > < (((*>) > < (((*>) > < (((*>) > < (((*>) > < (((*>) > < (((*>) > < (((*>) > < (((*>) > < (((*>) > < (((*>) > < (((*>) > < (((*) > < (((*) > < (((*) > < (((*) > < (((*) > < (((*) > < (((*) > < (((*) > < (((*) > < (((*) > < (((*) > < (((*) > < (((*) > < (((*) > < (((*) > < (((*) > < (((*) > < (((*) > (((*) > (((*) > (((*) > (((*) > (((*) > (((*) > (((*) > (((*) > (((*) > (((*) > (((*) > (((*) > (((*) > ((((*) > (((*) > ((((*) > ((((*) > (((*) > ((((((*) > ((((((*) ) ) ) ))))))))))$
Marine Chemistry Laboratory Pressure Test Vessel	
Lab: Office/VM:	

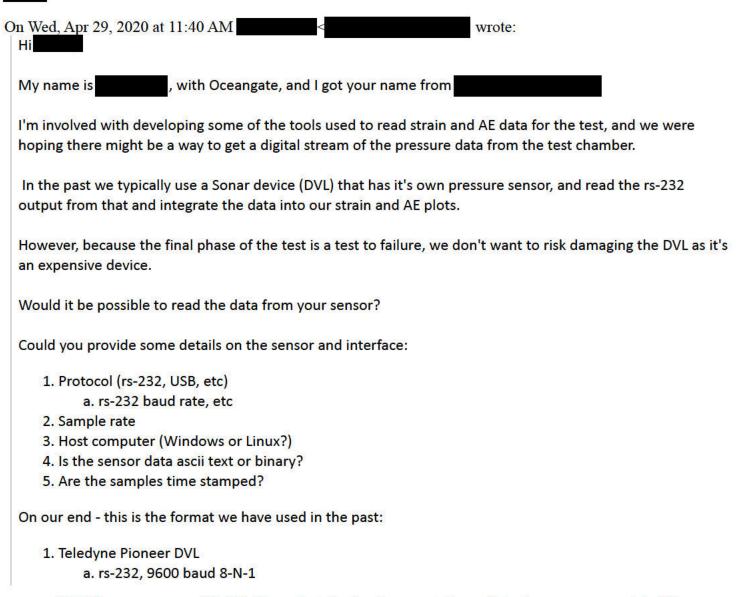
--



### Hi all;

I am working from home during this time and will try to address your query as best I can. The pressure sensor is a Paroscientific model # 9000-15K-101. I believe the output connection from the sensor is a serial connection, and I think the input to the computer is either serial or usb. The data acquisition software is Paroscientific's ("Digiquartz" <u>http://paroscientific.com/software_manuals.php</u>). The software records time and PSI, and a text file is generated. You might be able to put in some sort of splitter so that you can receive the output as well, but I'm not sure if you can get any meaningful data unless you have Paroscientific's software. Parosci. may be able to help you better than I, but that's the best I can do for now.

## Best;



UW-APL/ OceanGate Testing Documentation and Emails

- 2. Sample rate = 2.5 Hz (400 ms) or 10 hz (100 ms). S.C. §6308.
- 3. Linux host Ubuntu 16.04 (Linux Mint 18.3)
- 4. Text data, converted to a socket stream
- 5. Host computer adds the time stamp

We have also considered getting a stand alone pressure sensor, and installing on the plate in a NPT threaded mounting - is this possible?

Another option might be to use a rs-232 serial port splitter device (assuming your sensor has rs-232 output) or possibly software on your host system to effectively split the data (send original depth data out a different serial port to our system)

Thanks very much

Oceangate

$\begin{array}{c}\\ \\ \\ \\ \\ \\ \\ \end{array} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	*> }><((((*> }><(((*> })
I <u>Marine Chemistry Laboratory</u>	Pressure Test Vessel
Lab: Pressure Vess	
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No part of a report of a marine casualty investigation shall be admissible as evidence in any civil or administrative proceeding, other than an administrative proceeding initiated by the United States. 46 U.S.C. §6308.
From:
To:
Subject: Re: Scale Hull 2.0 Pressure Test
Date: Mon, 13 Jul 2020 11:54:40 -0700
Inline-Images: Outlook-erns3fr5.png; Outlook-2ccafq20.png
that would be better, i'll try for those days aaron
On Mon, Jul 13, 2020 at 11:53 AM
Can you do the 11th, 12th, and 13th? of August? Evening being the 13th for the >6000 psi test.
Best,
Engineering Project Manager & Submersible Pilot OceanGate Inc.
1205 Craftsman Way, Suite 112 Everett, WA 98201 Main Office: Direct:
www.oceangate.com
OceanGate
From: Sent: Monday, July 13, 2020 11:48 AM To: Subject: Re: Scale Hull 2.0 Pressure Test
Hi Hi 7 Aug is not a possibility. So I'll request for 4,5, 6Aug with the evening of 6Aug being the >6000psi test. Would that work? cheers;
On Mon, Jul 13, 2020 at 10:33 AM Hi
I hope you had a good weekend. As you know we are scheduled to test our pressure hull 1.0 with you starting the 27th. I wanted to get ahead of the game and start scheduling our pressure test for scale hull 2.0- that will likely to be tested to failure.

CG-032

UW-APL/ OceanGate Testing Documentation and Emails

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With this being said we need to schedule 3 days of testing. The first two days will not exceed 6000psi, and imitate the 1.0 test, but by the end of the third day we will likely need to exceed 6000 psi. I was hoping for the 5th, 6th, and 7th of August but the following week any days will do as well. What is your availability?

I look forward to hearing back. Best,

Engineering Project Manager & Submersible Pilot OceanGate Inc.

1205 Craftsman Way, Suite 112 Everett, WA 98201 Main Office: Direct:

www.oceangate.com



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Marino Chom	istry Laboratory	Pressure Test Vessel
Marme Chen	<u>Isu y Laboratory</u>	<u>Pressure rest vesser</u>
Lab:	Pressure Vessel:	Office/VM:
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Marine Chemistry	<u>/ Laboratory</u>	Pressure Test Vessel	
Lab:	Pressure Vessel:	Office/VM:	
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Subject: more Oceangate details Date: Fri, 6 Mar 2020 17:14:39 -0800

## Hi

and I have been working out the Oceangate test details. Turns out she was talking "4500 meters", and we were talking "4500psi" (their actual desired max would be ~6600psi). So, we've worked it out for tentatively scheduling for 26-29May, as the 25th is Memorial Day. Because of the higher PSI, I'm going to try for multiple days of OSB closure(s), W and Th probably going until 10ish and that Friday going later for the deep/failure test.

<pre>&gt;&gt;&lt;(((*&gt; }&gt;&lt;(((*&gt; }&gt;&lt;(((*&gt; )&gt;&lt;(((*&gt; )&gt;&lt;(((*&gt; )&gt;&lt;(((*&gt; )&gt;&lt;(((*&gt; )&gt;&lt;(((*&gt; )&gt;&lt;(((*&gt; )&gt;&lt;(((*&gt; ))))))))))))))))))))))))))))))))))</pre>	
Marine Chemistry Laboratory Pressure Test Vessel	
Lab: Pressure Vessel: Office/VM:	
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