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**TEST CERTIFICATE – EAR-CONTROLLED DATA**

Date: 11/28/2012  
 P.O. No.: PO To Follow  
 W/O No.: RUM004-10-25-07576-1

<b>Identification:</b>	Rubber Flooring
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Flooring material provided by Rumber was tested for changes in hardness, weight, and volume after exposure to two types of drilling muds obtained by Element from National Oilwell Varco. The base line properties were established, then samples were immersed in the two types of drilling muds, with one sample of each exposed to 110°F in an air circulating oven for 1 week (168 hours) and one at 3°F in a freezer for 1 week.

**HARDNESS TESTING**

Sample	Medium	Shore A Average	% Change
As Received	---	89	---
168 hrs at ambient	Whole NOV 40 Mud	76	- 15%
As Received	---	90	---
168 hrs. at 110°F	Whole NOV 40 Mud	73	- 18%
As Received	---	89	---
168 hrs. at 3°F	Whole NOV 40 Mud	90	0 %
As Received	---	95	---
168 hrs at ambient	Oil Base Mud (Diesel Based)	80	- 16%
As Received	---	94	---
168 hrs. at 110°F	Oil Base Mud (Diesel Based)	78	- 17%
As Received	---	85	---
168 hrs. at 3°F	Oil Base Mud (Diesel Based)	82	- 4 %

Respectfully Submitted

Terry Wilt  
 Department Manager, Metals & Product Testing

Our letters and reports are for the exclusive use of the client to whom they are addressed and shall not be reproduced except in full without the approval of the testing laboratory. The use of our name must receive our written approval. Our letters and reports apply only to the sample tested and/or inspected, and are not indicative of the quantities of apparently identical or similar products. Unless otherwise noted all test methods and specifications are to the most current revision. Material submitted to our metals department will be discarded after a period of 30 days unless otherwise directed.



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**WEIGHT CHANGE**

Sample	Medium	Weight (g)	% Change
As Received	---	48.5	---
168 hrs at ambient	Whole NOV 40 Mud	46.2	- 5%
As Received	---	44.3	---
168 hrs. at 110°F	Whole NOV 40 Mud	50.6	+ 14%
As Received	---	43.1	---
168 hrs. at 3°F	Whole NOV 40 Mud	45.2	+ 6%
As Received	---	38.3	---
168 hrs at ambient	Oil Base Mud (Diesel Based)	38.3	0%
As Received	---	57.3	---
168 hrs. at 110°F	Oil Base Mud (Diesel Based)	66.3	+ 16%
As Received	---	13.5	---
168 hrs. at 3°F	Oil Base Mud (Diesel Based)	14.6	+ 12%

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**VOLUME CHANGE**

Sample	Medium	Size (in.)	% Change
As Received	---	1.355 x 1.381	---
168 hrs at ambient	Whole NOV 40 Mud	1.403 x 1.415	+ 6%
As Received	---	1.359 x 1.381	---
168 hrs. at 110°F	Whole NOV 40 Mud	1.412 x 1.480	+ 15%
As Received	---	1.357 x 1.398	---
168 hrs. at 3°F	Whole NOV 40 Mud	1.398 x 1.371	+ 1%
As Received	---	1.501 x 1.462	---
168 hrs at ambient	Oil Base Mud (Diesel Based)	1.536 x 1.415	- 1%
As Received	---	1.546 x 1.555	---
168 hrs. at 110°F	Oil Base Mud (Diesel Based)	1.600 x 1.646	+ 10%
As Received	---	0.923 x 1.005	---
168 hrs. at 3°F	Oil Base Mud (Diesel Based)	0.922 x 0.949	- 6%

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