

Ultrasonic Inspection Report

Job #:	Report #:	Inspection Date:
-	UT-BV-1	June 26, 2012

				•								
Clien	nt: C	CNRL					Location:	Grand Forks Battery LSD:04-0			1-013-13	W4M
Procedur	e: L	JT-0001	1 Item I		spected: Vessel Free		Water Kno	Water Knock Out A0242049				
Cod	e: A	ASME Se	ection V	ction VIII Div 1								
•			Painted 🛚]	Sandblasted		Machined	Machined As Ca			As Forged
Surface	Surface Condition:		Weldment □		Other \square			Mate		C.S.		
Scanning Surface:		face:	OD	DD 🛛 ID 🗌		Other:		Surface Tem		p (°C):	> 5° / < 60°	
	Met	thod:	 			Immersio						
	7	Туре:	P/E □			 T/T 🏻		Dual 🛛 Automated		d 🗌 TOFD 🗌		
Application:		ition:				Shear Way				Thickness 🏻		
Instrumentation:					Type: k	(rautkramer	 utkramer		DMS2 Serial #: 020>		rial #: 020XP6	
Calibration:							1/12/2012	<u>' '</u>			ence Flaw Size: Backwall	
Calibration Block (s):		Type: Block#:					Type: Block#:					
		.,,,			: 10-2192	Type:			Block#:			
Couplant:			Brand: Sono Tech Type: Ed			choael	Cable: Type: Coaxial			Length: 36"		
				ROBE							nge - 🗌 IN. 🗌 MM	
Manufacturer	Туре	Se	rial #	Angle	Frequ	ency Size	Pef	Scan Level	Transfer Value	Screen Size	Skip Value	Beam Travel
G.E.	Dual	02	.00LL	0	7.51	4hz 0	6db					
Scope and Inspection Results												
Carry out UT examination of A0242049 Free Water Knock Out #1.												

Check for corrosion of the shell, heads and associated piping to verify integrity for service and identify any areas of concern.

Results:

UT examination was carried out; all readings taken were 10" band scans with three readings per TML location/band. Minimum, Maximum and Average readings were taken and recorded in each location.

All readings were found to be at or above nominal on the shell and heads. Extreme pitting was found on two of the drain elbows. TML 60 (middle drain elbow) recorded reading of 0.154" and TML 65 (West end drain elbow) recorded reading of 0.184". These readings are unchanged from previous 2009 UT Survey. Decision was made to internally recoat the nozzles and schedule to replace in kind at next opportunity.

See attached Pictures, drawing and UTM Readings for locations and thicknesses recorded.

Recommendation:

Continue to carry out UT corrosion survey and Visual inspection at the required inspection frequency. Schedule to have the drain elbows replaced in kind at next opertunity.

Final Comment:

Free Water Knock Out #1 is fit for continued service.

Inspection Limitation(s): None

Time and Billing Information:								
Vehicle #:	001	Kms:		Hrs	Tech. (Name):	Blair Verge	SNT-TC-1A:	1
Time In:	00:00	Time Out:	00:00		Tech. (Sign):	Signals signed by Blad Verge Ship well-back Verge on purificacy in proceedings - Service Line, count-beneging particulation, C-CA page 2812 87 21 14 19 52 40007	CGSB Level:	I
Time In:	00:00	Time Out:	00:00		Client (Name):		CGSB #:	5586
Personnel:	Personnel: Ayralee Martin Blair Verge				Client (Sign):			

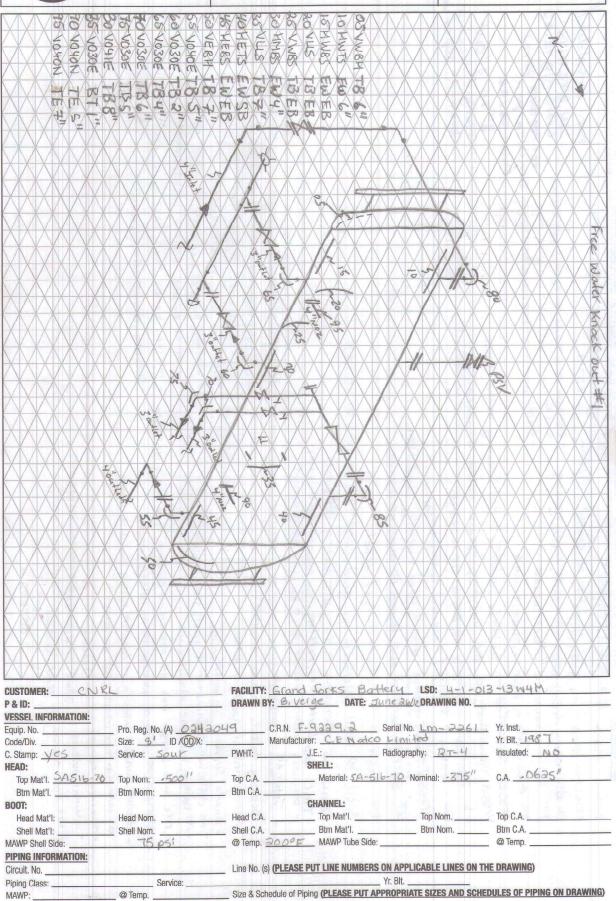
Additional Billing Information: : -



CORROSION INSPECTION SERVICES

Page

of



UT Readings for Free Water Knock Out A0242049

	<u>Minimum</u>	<u>Maximum</u>	<u>Average</u>
LOC 5	0.566	0.573	0.571
LOC 10	0.391	0.393	0.391
LOC 15	0.386	0.388	0.388
LOC 20	0.386	0.389	0.388
LOC 25	0.388	0.39	0.389
LOC 30	0.382	0.396	0.386
LOC 35	0.404	0.411	0.408
LOC 40	0.414	0.418	0.416
LOC 45	0.382	0.382	0.382
LOC 50	0.453	0.587	0.572
LOC 55	0.326	0.342	0.337
LOC 60	0.155	0.307	0.255
LOC 65	0.188	0.297	0.272
LOC 70	0.209	0.216	0.216
LOC 75	0.228	0.254	0.237
LOC 80	0.223	0.251	0.23
LOC 85	0.219	0.231	0.227
LOC 90	0.333	0.364	0.351
LOC 95	0.335	0.361	0.347