

IRISNDT	ULTRASONIC INSPECTION REPORT	CA1356-UT1-57 Page 1 of 2
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Procedure: 4.2 Technique: Contact-Thickness Code/Standard: Customer Information Other: N/A	Rev: 3 Client: HUSKY OIL OPERATIONS IRISNDT #: LYN1901493 Location: 4-22-45-6W4 Item Inspected: Pop Tank UT	Date: 2019-Sep-06 WO #: 81416940 PO #: 8401382216
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Material Type: Carbon Steel Equipment: DMS-2	Surface Condition: Buffed S/N #: 31082 Model:	Heat Treatment: Not Applicable Asset #: 31120 Calibration Due Date: 2020-Jan-02
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Calibration Block: Step Wedge Sweep range Cal: N/A Cable & Type: Coaxial / Lemo – Lemo (L-L) Scanning Surface: ☒ OD ☐ ID ☐ Other	Asset #: 322013 Asset #: Length: 3 feet Couplant: Echogel Batch #: 18C023
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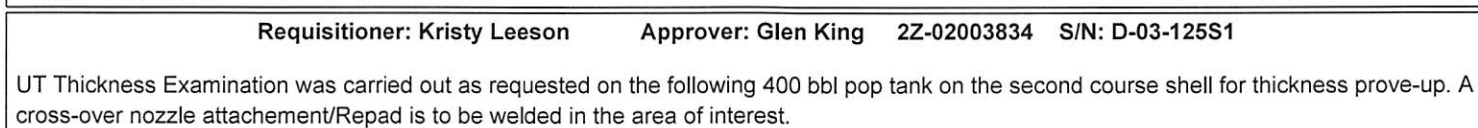
Dis. AMPL. Calibration: 0"-0.5" Transfer Loss Calibration: ☐ Direct Comparison ☒ N/A ☐ Other	Probe(s): S/N 16B0123 Angle 0 Frequency (MHz) 7.5MHZ Crystal Size 3/8"
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Reference Flaw Size: Backwall Primary Reference Level: 80% FSH ☐ Lamination ☐ Shear Wave ☐ Volumetric ☒ Thickness	Reference Gain: 60+6 db Scan Methods: ☒ Contact ☐ Other
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Surface Temp (C°): > 5°C / 41°F & < 60°C / 140°F

Requisitioner: Kristy Leeson Approver: Glen King 22-02003834 S/N: D-03-125S1
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UT Thickness Examination was carried out as requested on the following 400 bbl pop tank on the second course shell for thickness prove-up. A cross-over nozzle attachment/Repad is to be welded in the area of interest.

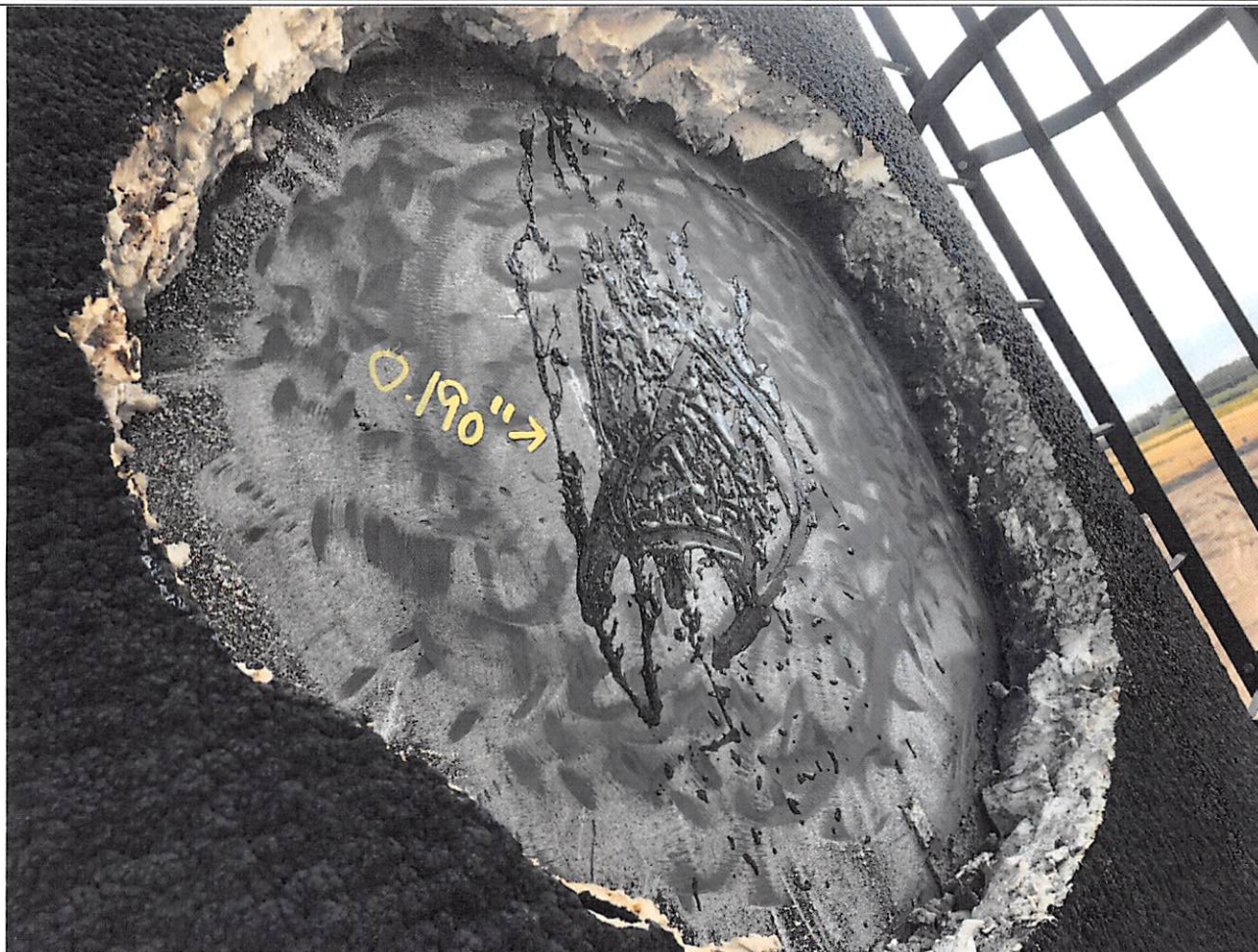


NISKU, ALBERTA BATTLEFORD, SASK. API 12F ED. APP. SERIAL No. D-03-125S1 YEAR BUILT 2003 <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>12.0 FT.</td> <td>NOM CAP</td> <td>400</td> </tr> <tr> <td>20.0 FT.</td> <td>SHELL THK</td> <td>3/16</td> </tr> <tr> <td>1 1/4 IN.</td> <td>SHELL MATL</td> <td>A36 OR EQ</td> </tr> <tr> <td>3/16 IN.</td> <td>BTM TYPE</td> <td>FLAT</td> </tr> <tr> <td>1.0</td> <td>D.P.</td> <td>ATMOSPHERIC</td> </tr> <tr> <td>N/A</td> <td>S.R.</td> <td>N/A</td> </tr> <tr> <td>20.0 FT.</td> <td>EQUIP No</td> <td>N/A</td> </tr> </table>	12.0 FT.	NOM CAP	400	20.0 FT.	SHELL THK	3/16	1 1/4 IN.	SHELL MATL	A36 OR EQ	3/16 IN.	BTM TYPE	FLAT	1.0	D.P.	ATMOSPHERIC	N/A	S.R.	N/A	20.0 FT.	EQUIP No	N/A	
12.0 FT.	NOM CAP	400																				
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1.0	D.P.	ATMOSPHERIC																				
N/A	S.R.	N/A																				
20.0 FT.	EQUIP No	N/A																				

Inspection Limitation(s): N/A

Unit#: 667 Kilometers: _____ In: _____ Out: _____ Hrs: _____ In: _____ Out: _____ Hrs: _____ Personnel: Brady Harvey	Consumables: min	Interpretation by: Brady Harvey (Print) <i>Brady Harvey</i> (Sign) Client Representative: _____ (Print) I am in full agreement with report contents (Sign)
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Low Reading of 0.190" Recorded

IRISNDT #: LYN1901493

Date: 2019-Sep-06

Brady Harvey

(Print)

Brady Harvey

(Sign)

Client: HUSKY OIL OPERATIONS

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MAGNETIC PARTICLE INSPECTION REPORT

CA1356-MT3-58

Page 1 of 2

Procedure: 5.0	Rev: 3	Client: HUSKY OIL OPERATIONS	Date: 2019-Sep-06
Technique: MT-2V		IRISNDT #: LYN1901493	WO #: 81416940
Code/Standard: API 650 - Sect 8.2.4		Location: 4-22-45-6W4	PO #: 8401382216
Other: N/A		Item Inspected: 6" Nozzle/Repad	

Project Name:	Project #:
Specification:	Standard:

Surface Condition: As Welded	Material: Carbon Steel	Thickness: 3/16"	Heat Treatment: Not Applicable
Magnetizing Equipment: Yoke	Method of Magnetization: AC Continuous	Asset #: 40099	Mfg: Contour Probe
Verification Date: 2019-Sep-06	Verification Weight: ☒ 10 lb. ☐ 40 lb.	Asset #: 49283	Verification per ASME V Art 7 T-762

Magnetic Particles: Dry ☐ Wet ☒	Red ☐ Grey ☐ Black ☒ Fluorescent ☐
Batch #: G5050318	Manufacture: Ardrex
Type: 8032 Aerosol	

☒ Background		
Batch #: G5110817	Manufacture: Ardrex	Type: 8901W

☐ Blacklight (N/A)		
Asset #:	Blacklight meter: Asset #:	Cal Due Date:

☒ Whitelight	
Lighting Equipment: Flashlight Standard Bulb (4xAA)	Verification per ASME V Art 7 T-777.1

Inspection Scope: To perform a wet black on white magnetic particle inspection on the following 6" Crossover and Repad
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Requisitioner: Kristy Leeson Approver: Glen King 2Z-02003834 S/N: G-03-125S1

**Results:** At time of inspection all welds were acceptable to code.**Inspection Limitation(s):**

Unit#: 667	Kilometers: _____	Consumables: _____	Interpretation by: _____
In: _____	Out: _____	Hrs: _____	Brady Harvey
In: _____	Out: _____	Hrs: _____	(Print) <i>Brady Harvey</i>
Personnel: Brady Harvey,			(Sign) _____
			Client Representative: _____
			(Print) _____
			I am in full agreement with report contents
			(Sign) _____

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IRISNDT #: LYN1901493

Date: 2019-Sep-06

Brady Harvey

Client: HUSKY OIL OPERATIONS

(Print)

Brady Harvey

(Sign)

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DAILY LEM TIME-TICKET

IRISNDT DAILY TICKET#

CA1356-DT-145

Page 1 of 1

Customer: HUSKY OIL OPERATIONS

IRISNDT DISPATCH #: LYN1901493

Location: 4-22-45-6W4

Date: 2019-Sep-06

Technician 1: Brady Harvey Position: Junior Tech Technician 2: _____ Position: _____ Primary Activity: UT - Thickness
Technician 3: _____ Position: _____ Technician 4: _____ Position: _____ Report Prefix: CA1356

Time Start	Time Finish	Activity	Report #s	LOC	Total Hours	Total KMs	Description	PO/Cost Code/AFE		Job #/Work Order #/Other	
11:00	13:00	Job Prep/Travel	UT1-57	4	2	120	Job Prep/Travel	P.O.#:	8401382216	W.O.#:	81416940
13:00	13:30	UT - Thickness	UT1-57	4	0.5		UT Tank Shell	P.O.#:	8401382216	W.O.#:	81416940
13:30	16:00	MT - Magnetic Particle	MT3-58	4	2.5		Mag Nozzle/Repad	P.O.#:	8401382216	W.O.#:	81416940
16:00	18:30	Travel/Reporting	MT3-58		2.5	120	Travel/Reporting	P.O.#:	8401382216	W.O.#:	81416940

(Totals for this page only)

Totals:

7.5

240

Unit:

Work Location (LOC) Legend: 1) Inside Fab. Shop 2) Yard/Lay-down Area 3) Piping/Modular Fab. Area 4) Other

J.H.A. Carried Out & Documented: ☒ Yes ☐ No Safety Concerns: ☐ Yes ☒ No Safety Meeting: ☒ Yes ☐ No Living Out Allowance: ☒ N/A ☐ Full ☐ Bkfst ☐ Lunch ☐ Supper ☐ OT Meal ☐ Hotel

Equipment, Supplies, Consumables, and Other Costs

MIN

Additional Site, Daily, and other relevant job notes

Requisitioner: Kristy Leeson
Approver: Glen King 2Z-02003834

TECHNICIAN NAME: Brady Harvey
(Print)

CLIENT NAME: Karen Hawryluk
(Print)

TECHNICIAN SIGNATURE: 
(Sign)

Tech Date: 2019-Sep-06

CLIENT SIGNATURE: 
(Sign)

Client Date: