

(780) 875-6455 (780) 674-3018 (780) 955-7616

Nisku

VESSEL INSPECTION SUMMARY

Report #: 123812-KK-07 Inspect Date: 04/21/2010 Page: 1 of 7 IRISNDT #: 123812

Client: CNR	L District:	St. Albert		Field:	Cherhill
Facility: Cherhill C	Comp Unit / Skid #:	N/A		LSD: 15	5-08-057-05W5M
Jurisdiction #: A04194				Serial #:	97168C
CRN #: L-0405				Year Built:	
Manufacturer: Kanbuilt Indust		ment Description			
Status: In Service -		noved From Servi			woot
MAWP Shell: 50 Psi			B Ft.		tamp: 🛛 Y 🔲 N
MAWP Tube:		- 3			
			in. O.D.		lated: X Y N
MDMT: -20 °F	RT: <u>RT-2</u> Vo	olume:			WHT: \square Y \boxtimes N
Support Type: Saddle	<u> </u>	_			nway: 🛛 Y 🔲 N
C.A.: 0.0625 in.	Coated: 🗌 Y 🔀 N Clad: 🗌]Y⊠N J.	E.: Rer	mote Access:	
Component	Material	Nominal Thk	Diameter	OD/ID Tube	Side Shell Side
East - Head	SA-516-70MT	0.375 in.	48.000 in.	OD [
West - Head	SA-516-70MT	0.375 in.	48.000 in.	OD [
- Shell	SA-516-70MT	0.250 in.	48.000 in.	OD	
-				L	
-					
Comments:]
Data plate securely attached a	nd easy to read.				
PSV Static Data					
PSV -1 Tag #: N/A	Serial #: N/A	1		CRN: N/A	
Model #: N/A	Capacity: N/A	\	 Set Pre	essure: N/A	_
Manufacturer: N/A		•	Service Con		
Inlet Size & Type:			Last Service	· ·	
		,			
Outlet Size & Type:	-	t	Block Valve:		
Carseal Intact:			Code S	·	
Shell Side / Tube Side:			Location o	f PSV: N/A	
PSV -2 Tag #:	Serial #			CRN:	
Model #:	Capacity:		Sot Dro	essure:	
·	Capacity.				
Manufacturer:			Service Con	npany:	
Inlet Size & Type:	<u> </u>	_		e Date:	
Outlet Size & Type:	<u> </u>	ŀ	Block Valve:		
Carseal Intact:			Code S	Stamp:	
Shell Side / Tube Side:			Location o	f PSV:	
PSV Comments					
1 GV Comments					
This vessel operates at atmost	pheric pressure (vented to flare)	there is no PSV	attached.		
rine vecesi eperatee at atmosp	mene preseure (venteu te nare)	,	attaci ioa.		
5311 – 86 Street Edmonton Alberta TSE	5T8 Phone: (780) 437-2022 Fax: (780) 438-143	36]
Calgary (403) 279-6121	Cold Lake	(780) 594-1114		Corpus Christi, TX	
Lloydminster (780) 875-6455 Barhead (780) 674-3018	Fort McMuri High Level	(780) 956-4094	1	Deer Park, TX Matrix, Houston, T	(281) 476-4444 X (713) 722-7177
Nieku (790) 055-7616	Bod Door	(402) 247 474	2	Toyon City TV	(400) 045 2262

(780) 743-1536 (780) 956-4094 (403) 347-1742

(403) 527-6284

Fort McMurray High Level Red Deer

Medicine Hat

(281) 476-4444 (713) 722-7177 (490) 945-2262

Deer Park, TX Matrix, Houston, TX Texas City, TX Tulsa, OK



5311 - 86 Street, Edmonton, Alberta T6E 5T8 Phone: (780) 437-2022 Fax: (780) 438-1436

(403) 279-6121

(780) 875-6455 (780) 674-3018 (780) 955-7616

Calgary

Nisku

Lloydminster Barhead

VESSEL INSPECTION SUMMARY

Report #: 123812-KK-07
Inspect Date: 04/21/2010
Page: 2 of 7
IRISNDT #: 123812

Client: CNRL LSD: 15-08-057-05W5M Jurisdiction #: A0419466									
External Inspection Results - VE									
Item	Υ	N	N/A	Condition	Comment	NCR	Action Item	Priority	
Nameplate	\boxtimes			Accept	Securely attached				
Foundation and Supports	\boxtimes			Accept	Good Condition				
Anchor Bolts	\boxtimes			Accept	Good bolting				
Grounding	\boxtimes			Accept	Good grounding				
Insulation Condition	\boxtimes			Accept	Partial Insulation				
PSV			\boxtimes		Vented to flare				
Shell & Heads	\boxtimes			Accept	Rough / flaking paint				
Metal Surfaces (Paint)	\boxtimes			Accept	Isolated flaking / chipping paint				
Aux Equipment	\boxtimes			Accept	Good condition				
Cathodic Protection			\boxtimes		Not Applicable				
Alignment	\boxtimes			Accept	Good Alignment				
Flange Connections	\boxtimes			Accept	Good condition				
Pressure Gauge			\boxtimes		No Press gauge attached				
Piping from Vessel	\boxtimes			Accept	Good condition				
Temperature Gauge	\boxtimes			Accept	Clean and clear				
Sight Glass				Accept	Clear and clean, no leaks				
Leaks	\boxtimes				No leaks noted				
Current UT Survey	\boxtimes	Щ			Survey Performed	UT Company: Matrix Inspection			
Previous UT Survey	Ш	Ш	\boxtimes		Unknown	UT	Company: U	nknown	
LEGEND: Priority 0 - General Recommendations Priority 1 - Goal date is 30 days from the activity date Priority 2 - Goal date is 90 days from the activity date. Priority 2 - Goal date is 90 days from the activity date.									
External Visual Observations Manual Review Required By Customer Representative -									
There is 1 Bolt with questionable thread engagement on inlet flange. There is dust and dirt build-up on the top shell of the vessel.									
The vessel to wall interface is in good condition with no evidence of leakage.									
There are isolated rough surfaces, staining, thick/ rough paint, and chipping or flaking paint noted throughout.									
The vessels piping and external attachments are in good visual condition with no evidence of leakage.									
Minor surface corrosion was noted on the drain piping flanges. This corrosion can be easily removed with light wire brushing.									
The vessel appears to be properly leveled and secured to the building floor.									
The level gauges and sight glasses attached to this vessel are clear and appear to be in good working condition.									
An Ultrasonic corrosion survey was performed at the time of inspection by Matrix Inspection using DMS2 serial number 01NOV4. All thickness values recorded were considered acceptable at the time of the inspection. See attached UltraMate UT file for complete thickness values.									

Cold Lake

Fort McMurray High Level Red Deer

Medicine Hat

(780) 594-1114

(780) 743-1536 (780) 956-4094 (403) 347-1742

(403) 527-6284

(361) 888-4700

(281) 476-4444 (713) 722-7177 (490) 945-2262

Corpus Christi, TX

Deer Park, TX Matrix, Houston, TX Texas City, TX Tulsa, OK



(780) 875-6455 (780) 674-3018 (780) 955-7616

Nisku

VESSEL INSPECTION SUMMARY

123812-KK-07 Report #: Inspect Date: 04/21/2010 Page: 3 of 7 IRISNDT # 123812

Client: CNRL
Item
Shell
Heads
Heads
Manway
Gasket Surfaces
Welds
Refractory
Heating Coils
Demister Pad
Vane Pack
Baffles
Trays
Filter
Internal Coating
Tubesheet
Tube Bundle LEGEND: Priority 0 - General Recommendations. Priority 1 - Goal date is 30 days from the activity date. Priority 2 - Goal date is 90 days from the activity date. Internal Visual Observations No Internal inspection performed Priority 3 - Goal date is 1 Year from the activity date. Priority 4 - Goal date is 5 Years from the activity date. Manual Review Required By Customer Representative -
LEGEND: Priority 0 - General Recommendations. Priority 1 - Goal date is 30 days from the activity date. Priority 2 - Goal date is 90 days from the activity date. Internal Visual Observations Priority 3 - Goal date is 1 Year from the activity date. Priority 4 - Goal date is 5 Years from the activity date. Manual Review Required By Customer Representative -
Priority 0 - General Recommendations. Priority 1 - Goal date is 30 days from the activity date. Priority 2 - Goal date is 90 days from the activity date. Internal Visual Observations Priority 3 - Goal date is 1 Year from the activity date. Priority 4 - Goal date is 5 Years from the activity date. Manual Review Required By Customer Representative -
Priority 1 - Goal date is 30 days from the activity date. Priority 2 - Goal date is 90 days from the activity date. Internal Visual Observations Priority 4 - Goal date is 5 Years from the activity date. Manual Review Required By Customer Representative -
Priority 2 - Goal date is 90 days from the activity date. Internal Visual Observations Manual Review Required By Customer Representative -
Internal Visual Observations Manual Review Required By Customer Representative -
No Internal inspection performed at his time.
704 00 0 4 5 4 4 4 4 70 5 70 D 4 70 00 0 5 70 D 40 400
5311 – 86 Street, Edmonton, Alberta T6E 5T8 Phone: (780) 437-2022 Fax: (780) 438-1436 Calgary (403) 279-6121 Cold Lake (780) 594-1114 Corpus Christi, TX (361) 888-4700
Lloydminster (780) 875-6455 Fort McMurray (780) 743-1536 Deer Park, TX (281) 476-4444 Barhead (780) 674-3018 High Level (780) 956-4094 Matrix, Houston, TX (713) 722-7177

(780) 743-1536 (780) 956-4094 (403) 347-1742

(403) 527-6284

Fort McMurray High Level Red Deer

Medicine Hat

Deer Park, TX Matrix, Houston, TX Texas City, TX Tulsa, OK



Report #: 123812-KK-07
Inspect Date: 04/21/2010
Page: 4 of 7
IRISNDT #: 123812

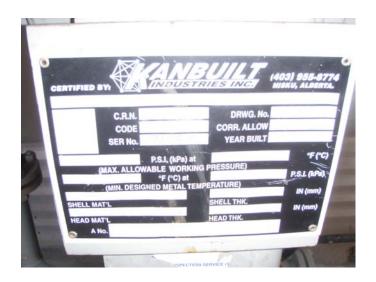
Client:	CNRL	LSD:	15-08-057-	05W5M Jur	isdiction #:	A0419466
Additional Attachm			Specify		on Report #	
NDE	UT 🗌 MT 🗌	PT ET	RT 🗌 OT	HER 🗌		
NDE Report #:						
Items Raised:	NCR No	Operational Act	ion Item No	Repair Action Item	Yes Deferre	d Action Item Yes
Action Items / Rec	commendations:					
Ensure that inlet	piping bolts are adju	sted accordingly	to make sure thei	e is proper thread en	gagement.	
Continue regular	inspections to ensu	re vessel integrity	/ and continued sa	afe operation.		
Actions Corrected	at Time of Inspection	n: (If actions were co	rrected at the time of li	nspection – note the correc	ted actions here.)	
None required.						
Marka Oarla Orikari			D. I	ti Did	NI-	
Meets Code Criteri	a: - Yes		Re-II	nspection Required -	NO	
Recommended I	nspection Intervals:					
VE Inspect.	Last Inspection:	Apr - 2010	Interval (yrs)	05	Next Inspection	n: Apr - 2015
VI Inspect.	Last Inspection:	-	Interval (yrs)		Next Inspection	n: - 0000
UT Inspect.	Last Inspection:	Apr - 2010	Interval (yrs)	05	Next Inspection	n: Apr - 2015
PSV Service	Last Inspection:	-	Interval (yrs)		Next Inspection	· ·
	161		Consumables:	Inspector:		
Unit #			Consumables.	Kris Katryniuk		PESL:
In <u>00:00</u>		Hrs		_ (Pr	rint)	
•	Out 00:00	Hrs		(Si	gn)	API: 510-35238
Personnel:			-	Client Representative		
DO#//MO#/AFF	40000444	646		_ I am in full agreement with	L	
	P.O.# / W.O.#/AFE #: 18203141-S646					
Calgary	monton, Alberta T6E 5T8 Pho (403) 279-6121	ne: (780) 437-2022 Fax: (Cold Lake (78	30) 594-1114	Corpus Chris	
Lloydminster Barhead	(780) 875-6455 (780) 674-3018		Fort McMurray (78	30) 743-1536 30) 956-4094	Deer Park, TX Matrix, Houst	X (281) 476-4444
Nisku	(780) 955-7616		Red Deer (40	03) 347-1742 03) 527-6284	Texas City, T Tulsa, OK	



Report #: Inspect Date: **123812-KK-07** 04/21/2010

Page: 5 of 7 IRISNDT #: 123812

Equipment Photographs:



01-A0419466 Data Plate



02-A0419466 A

Calgary (403) 279-6121 Lloydminster (780) 875-6455 Barhead (780) 674-3018 Nisku (780) 955-7616 Cold Lake
Fort McMurray
High Level
Red Deer
Medicine Hat

(780) 594-1114 (780) 743-1536 (780) 956-4094 (403) 347-1742 (403) 527-6284 Corpus Christi, TX (361) Deer Park, TX (281) Matrix, Houston, TX (713) Texas City, TX (490) Tulsa, OK (918)

(361) 888-4700 (281) 476-4444 (713) 722-7177 (490) 945-2262 (918) 446-8773



Report #: 123812-KK-07
Inspect Date: 04/21/2010
Page: 6 of 7
IRISNDT #: 123812



03-A0419466 B



04-A0419466 Flange Face Flash Corrosion



Report #: 123812-KK-07
Inspect Date: 04/21/2010
Page: 7 of 7
IRISNDT #: 123812



05-A0419466 Inlet Flange Bolting