

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

Nisku

### **VESSEL INSPECTION** SUMMARY

Report #: 123812-KK-08 Inspect Date: 04/21/2010 Page: 1 of 7 IRISNDT #: 123812

		l .			· ·	
Client: (	CNRL	District:	St. Albei	rt	Field:	Cherhill
Facility: Cher		nit / Skid #:			LSD:	
Jurisdiction #: A0			Tag #: 06-09 Sep			97168A
			N/A		Year Built:	
Manufacturer: Kanbuilt In			oment Descriptio	n: Separator		
Status: In Service			noved From Ser		Service:	Sweet
MAWP Shell: 720	Psi @ 100			10 Ft.	<del></del>	e Stamp: X Y N
MAWP Tube:	@		meter.: 36	in. O.E		sulated:
MDMT: -20 °	F RT: RT-2		olume:			PWHT: ☐ Y ☒ N
Support Type: Skirt						Manway: ☐ Y ☒ N
C.A.: 0.0625	in. Coated: \( \square\)	Y 🛛 N Clad: [	∃Y⊠N ,	J.E.: F	Remote Access:	, <u> </u>
Component		erial	Nominal Thk			pe Side Shell Side
Top - Head		6-70MT	0.875 in.	36.000 in.	OD Tu	
Bottom - Head		6-70MT	0.875 in.	36.000 in.	OD	
- Shell		6-70MT	0.875 in.	36.000 in.	OD	
- 011611	OA-310	0 7 OIVI I	0.070 III.	30.000 111.	35	
-						
Comments:						
Data plate is securely attac	ched and easy to rea	ad.				
	•					
201/0: 1. 2						
PSV Static Data						
PSV –1 Tag #: <u>P1236</u>			-44119-2-A10		CRN: OG23	
Model #: 26FA1		Capacity: 470	01 SCFM		Pressure: 720 p	
Manufacturer: Farris					Company: Powel	
Inlet Size & Type: 1.		_			rice Date: 04-21	-2010
Outlet Size & Type: 2		_		Block Valve:		
Carseal Intact: Y		_			e Stamp: Yes	
Shell Side / Tube Side	e: Shell Side	=		Location	n of PSV:	
PSV -2 Tag #:		Serial #:			CRN:	_
NA 1.1.11				 Set I	Pressure:	
Manufacturer:				Service C	Company:	
Inlet Size & Type:	-			Last Serv	rice Date:	
O (1 ( O) O T	-					
Carseal Intact:		_			le Stamp:	
Shell Side / Tube Side	e:	_			n of PSV:	
PSV Comments		=				
1 O A COMMUNICING	<del></del>					
PSV is recently serviced, r	ated and plumbed p	roperly for this v	essel.			
•		-				
5311 – 86 Street, Edmonton, Alberta Calgary (403) 279-61		2022 Fax: (780) 438-14 Cold Lake	36 (780) 594-11	114	Corpus Christi	, TX (361) 888-4700
Lloydminster (780) 875-64	155	Fort McMur	rray (780) 743-15	536	Deer Park, TX	(281) 476-4444
Barhead (780) 674-30	/10 816	High Level	(780) 956-40	194 742	Matrix, Housto	n, TX (713) 722-7177

(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



### **VESSEL INSPECTION SUMMARY**

123812-KK-08 Report #: Inspect Date: 04/21/2010 Page: 2 of 7 IRISNDT #: 123812

Client: CNRL LSD: 15-08-057-05W5 Jurisdiction #: A0419465								
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			$\boxtimes$		Not insulated			
PSV	$\boxtimes$			Accept	Serviced during TAR			
Shell & Heads				Accept	Isolated Rough/flaking paint			
Metal Surfaces (Paint)				Accept	Isolated flaking/ chipping paint			
Aux Equipment				Accept	Good condition			
Cathodic Protection					Not Applicable			
Alignment	$\boxtimes$			Accept	Good Alignment			
Flange Connections				Accept	Good condition			
Pressure Gauge				Accept	Clean and Clear			
Piping from Vessel	$\boxtimes$			Accept	Good condition			
Temperature Gauge				Accept	Clean and clear			
Sight Glass	$\boxtimes$			Accept	clear and clean, no leaks			
Leaks	$\boxtimes$				No leaks noted			
Current UT Survey	$\boxtimes$	Щ	<u> </u>		Survey Performed			latrix Inspection
Previous UT Survey	Ш	Ш	$\boxtimes$		Unknown	UT	Company: U	Inknown
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.  External 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 -								
External visual Observations Ivialitial Neview Required by Gustomer Representative -								
There is corrosion and flaking paint noted at the floor where the vessel base is bolted.  There are isolated rough surfaces, staining, thick/ rough paint, and chipping or flaking paint noted throughout.								
The vessel is painted and is in fair visual condition with chipping and flaking paint noted throughout.								
The vessel is grounded through the skid it is on, and wires are secure.								
The vessels piping and external attachments are in good visual condition with no evidence of leakage.								
The vessel is bolted securely to the building floor and appears to be properly leveled.								
The level gauges and sight glasses attached to this vessel are clear and appear to be in good working condition.								
The PSV attached to this vessel is plumbed correctly, recently serviced, and rated properly.								
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.								
5311 – 86 Street, Edmonton, Alberts Calgary (403) 279-61 Lloydminster (780) 875-64 Barhead (780) 674-30 Nisku (780) 955-76	21 55 18	T8 Phon	e: (780) 4	( F H F	00) 438-1436 Cold Lake (780) 594-1114 Fort McMurray (780) 743-1536 Iligh Level (780) 956-4094 Red Deer (403) 347-1742 Medicine Hat (403) 527-6284		Corpus Christi, TX Deer Park, TX Matrix, Houston, TX Texas City, TX Tulsa, OK	(361) 888-4700 (281) 476-4444 (2713) 722-7177 (490) 945-2262 (918) 446-8773



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### **VESSEL INSPECTION SUMMARY**

123812-KK-08 Report #: Inspect Date: 04/21/2010 Page: 3 of 7 IDICNIDT #

					IKISND1 #:	123812	
Client: CNRL LSD			15-08-057-05W5	Jurisdiction #: A0419465			
Internal Inspection Results – VI							
Item	Y N N/A	Condition	Comment	NCR	Action Item	Priority	
Shell		No	Internal inspection performed	П	П		
Heads			Internal inspection performed				
Manway			Internal inspection performed				
Gasket Surfaces			Internal inspection performed				
Welds			Internal inspection performed				
Refractory			Internal inspection performed				
Heating Coils		No	Internal inspection performed				
Demister Pad		No	Internal inspection performed				
Vane Pack			Internal inspection performed				
Baffles			Internal inspection performed				
Trays			Internal inspection performed				
Filter			Internal inspection performed				
Internal Coating			Internal inspection performed		一百		
Tubesheet			Internal inspection performed				
Tube Bundle			Internal inspection performed				
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 Observation	s		Manual Review Require	d By Custom	er Represent	ative -	
5311 – 86 Street, Edmonton, Albe Calgary (403) 279- Lloydminster (780) 875- Barhead (780) 674-	6121 6455	Cold La	.ake (780) 594-1114 lcMurray (780) 743-1536	Dee	r Park, TX	(361) 888-4700 (281) 476-4444 (713) 722-7177	

Fort McMurray High Level Red Deer

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



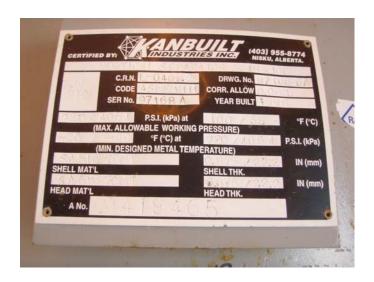
Report #: 123812-KK-08
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Additional Attachments # of pages Specify NDE UT MT PT ET RT OTHER DEPORT # Specify NDE UT MT PT ET RT OTHER DEPORT # Items Raised: NCR No Operational Action Item No Repair Action Item Yes Deferred Action Item Yes Deferre	Client:	CNRL	LSD: _	15-08-057	<u>'-05W5</u> Juri:	sdiction #:	A0419465
Additional Attachments # of pages   Specify   NDE   UT   MT   PT   ET   RT   OTHER				Attache	nd to Vessel Inspection	on Penort #	
NDE cport #: Items Raised: NCR No Operational Action Item No Repair Action Item Yes Deferred Action Item Yes  Actions Cornected at Time of Inspection: (if actions were corrected at the time of Inspection - note the corrected actions here.)  Actions Corrected at Time of Inspection: (if actions were corrected at the time of Inspection - note the corrected actions here.)  Actions Corrected at Time of Inspection: (if actions were corrected at the time of Inspection - note the corrected actions here.)  Actions Corrected at Time of Inspection: (if actions were corrected at the time of Inspection - note the corrected actions here.)  Actions Corrected at Time of Inspection: (if actions were corrected at the time of Inspection - note the corrected actions here.)  Actions Corrected at Time of Inspection: (if actions were corrected at the time of Inspection - note the corrected actions here.)  Actions Corrected at Time of Inspection: (if actions were corrected at the time of Inspection - note the corrected actions here.)  Actions Corrected at Time of Inspection: (if actions were corrected at the time of Inspection - note the corrected actions here.)  Actions Corrected at Time of Inspection: (if actions were corrected at the time of Inspection - note the corrected actions here.)  Actions Corrected at Time of Inspection Required - No  Recommended Inspection - Note Inspection: Apr - 2015  Interval (yrs) 05 Next Inspection: Apr - 2015  Next Inspection: Apr - 2015  Next Inspection: Apr - 2015  Interval (yrs) 05 Next Inspection: Apr - 2015  Next Inspection: Apr - 2015  Next Inspection: Apr - 2015  Interval (yrs) 05 Next Inspection: Apr - 2015  Next Inspectio	Additional Attachments	# of pages			-		
NDE Report #: Items Raised: NCR No Operational Action Item No Repair Action Item Yes Deferred Action Item Yes  Clean and repaint this vessel in the areas where paint is flaking.  Continue regular inspections to maintain vessel integrity and continued safe operation.  Actions Corrected at Time of Inspection: (If actions were corrected at the time of Inspection – note the corrected actions here.)  None required  Meets Code Criteria: - Yes Re-Inspection Required - No  Recommended Inspection Intervals:  VE Inspect. Last Inspection: Apr - 2010 Interval (yrs)  VI Inspect. Last Inspection: Apr - 2010 Interval (yrs)  UT Inspect. Last Inspection:			ПЕТП				
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UT Inspect.         Last Inspection:         Apr - 2010         Interval (yrs)         05         Next Inspection:         Apr - 2015           PSV Service         Last Inspection:         Apr - 2010         Interval (yrs)         05         Next Inspection:         Apr - 2015           Unit #         Kilometers:         Consumables:         Inspector:         Kris Katryniuk         PESL:           In         00:00         Out         00:00         Hrs         API:         510-35238           Personnel:         Client Representative:         Iam in full agreement with         (Print)         (Print)	-	•	Apr - 2010		05	-	-
PSV Service   Last Inspection:   Apr - 2010   Interval (yrs)   05   Next Inspection:   Apr - 2015	-		-				
Unit # Kilometers: Consumables: Inspector:   Kris Katryniuk PESL:   Kris Katryniuk PESL:     N 00:00 Out 00:00 Hrs   API: 510-35238     Personnel:   Client Representative:   Iam in full   Agreement with   API:	UT Inspect. Las	t Inspection:	Apr - 2010	Interval (yrs)	05	Next Inspection:	Apr - 2015
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Name	Unit # K	(ilometers:		Consumables:	Inspector:		
In						nt)	ESL:
Personnel: (Sign)  Client Representative:  Lam in full (Print)	In <u>00:00</u> Out				.	<u> </u>	API: 510-35238
I am in full agreement with (Print)	Personnel:				_		
P.O.# / W.O.#/AFE #: 18203141-S646 agreement with report contents:					l am in full		
	P.O.# / W.O.#/AFE #:	18203141-S646			agreement with report contents:	(Sign)	
5311 – 86 Street, Edmonton, Alberta T6E 5T8 Phone: (780) 437-2022 Fax: (780) 438-1436			,		0) 504 1114	Communication T	V (264) 000 4700
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	Lloydminster (780) 8	75-6455	I	Fort McMurray (78	0) 743-1536	Deer Park, TX	(281) 476-4444
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**Equipment Photographs:** 



01-A0419465 Data Plate



02-A0419465 A

Calgary (403) 279-6121 Lloydminster (780) 875-6455 Barhead (780) 674-3018 Nisku (780) 955-7616 Cold Lake
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Report #: 123812-KK-08
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03-A0419465 B



04-A0419465 Surface Corrosion



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05-A0419465 Base Corrosion



06-A0419465 Base Corrosion 2