

Report #: 137865-WF-45 Inspect Date: 05/13/2009 Page: 1 of 6 IRISNDT #: 137865

Client: CNR	L District:	Slave Lake)	Field:	Dav	wson			
Facility: 01-05-080	-16w5 Unit / Skid #:	nit / Skid #: N/A		LSD:	01-05-080-16W5				
	634 Equip Tag #:			Serial #: 0					
	2.2 Nat'l Bd #:			Year Built:	20	003			
Manufacturer: Enerflex Equipment Description: Inlet Separator									
Status: In - Shutdown					Sweet				
MAWP Shell: 740 Psi			. 0.5		e Stamp:				
MAWP Tube:	@ Size/Dia			Ir	nsulated:				
	RT: RT-2 V	/olume:		_	PWHT:				
Support Type: Saddle C.A.: 0.0625 in.	Coated: YN Clad: [L NUYD	F · Rem		Manway: □ -				
Component	Material	Nominal Thk	Diameter		be Side	Shell Side			
- Head	SA-516-70N	0.812 in.	36.000 in.	OD/ID Tu		Shell Side			
- Shell	SA-516-70N	0.875 in.	36.000 in.	OD	H				
-	G/(010 / 014	0.070 111.	30.000 111.	OB					
-									
-									
Comments:		1				_			
PSV Static Data									
PSV –1 Tag #:	Serial #: 45	5707-3-KE		CRN: OG84	142.50				
Model #: 26FA12-12	_			ssure: 740 p					
Manufacturer: Farris	Capacity 	100 OOI W	Service Com						
Inlet Size & Type: 1.50	in Flanged		Last Service	Date: 11/03					
Outlet Size & Type: 2.00	<u> </u>	1	Block Valve:						
Carseal Intact: Yes			Code S	tamp: Yes					
Shell Side / Tube Side: S	hell Side		Location of	PSV:					
PSV -2 Tag #:	Serial #:								
	Capacity:		Set Pres	ssure:					
Manufacturer:			Service Com	pany:					
Inlet Size & Type:	-		Last Service	Date:					
Outlet Size & Type:	-	I	Block Valve: -						
Carseal Intact:			Code S						
Shell Side / Tube Side:			Location of	PSV:					
PSV Comments									
_									
	ondition with the carseal intact.								
	rviced at the June 09 TAR as percented at the June 09 TAR as percented at the percented at		ents.						
vocci wiii moci code	requirements after 1 ev 10 cerv	vioca.							
	5T8 Phone: (780) 437-2022 Fax: (780) 438-14		4	Corp. Chairt	i TV /201) 999 4700			
Calgary (403) 279-6121	Cold Lake	(780) 594-1114	+	Corpus Christ	u, ı∧ (361) 888-4700			



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Client:	CNI	RL		LSD:	01-05-080-16W5	Jurisdiction	#: A	0497634
External Inspection Results - VE								
Item	Υ	N	N/A	Condition	Comment	NCR	Action Item	Priority
Nameplate				Accept		П		
Foundation and Supports				Accept			H	
Anchor Bolts				Accept				
Grounding				Accept				
Insulation Condition	П		Ī					
PSV			Ħ	Reject	Overdue for servicing			1
Shell & Heads		一		Accept	3			
Metal Surfaces (Paint)				Reject	Isolated Deterioration			4
Aux Equipment				,				
Cathodic Protection			\boxtimes					
Alignment				Accept				
Flange Connections				Accept				
Pressure Gauge				Accept				
Piping from Vessel				Accept	Mild active corrosion			4
Temperature Gauge	\boxtimes			Accept				
Sight Glass	\boxtimes			Accept				
Leaks		\boxtimes						
Current UT Survey	\boxtimes				No significat wall losses	UT	Company: Ma	atrix
Previous UT Survey						UT	Company:	
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.								
External Visual Observations Manual Review Required By Customer Representative -								
An external visual inspection was performed on vessel and the findings are as follows: The vessel was not operating at time of inspection as this vessel only operates in winter. No process leaks or vibrations were noted. The PSV is in good condition with the carseal intact. The PSV is overdue for servicing. Mild active corrosion is present on the bottom shell outlet nozzle to blowcase. No significant wall losses have occurred at this time. The paint is deteriorating on isolated areas of the shell and piping with light corrosion around the flanges. The insulation cladding is damaged and sections of insulation are missing from the drain piping. The saddle supports are secure and level. The sight glass, pressure and temperature gauges are clear and visible. External UT was performed with no significant wall losses noted. Refer to the attached photos, UT data and drawing for inspection findings.								



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

Nisku

VESSEL INSPECTION SUMMARY

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							IKISNDI #:	137805
Client:	CNR	L	LSD:	0,	1-05-080-16W5	Jurisdiction	#:A(0497634
Internal Inspection Results – VI								
Item	Y 1	N N/A	Condition		Comment	NCR	Action Item	Priority
Shell								-
Heads								
Manway								
Gasket Surfaces								
Welds								
Refractory								
Heating Coils								
Demister Pad	片片							
Vane Pack Baffles								
Trays								
Filter								
Internal Coating								
Tubesheet								
Tube Bundle								
LEGEND:		. —	L					<u>. </u>
Priority 0 - General Recom	menda	ations			Priority 3 - Goal date	is 1 Year from	m the activity	date
Priority 1 - Goal date is 30			tivity date		Priority 4 - Goal date			
Priority 2 - Goal date is 90					. Hom, 7 Coal date		are deavity	
·	.,		, - -			15.6		
Internal Visual Observations					Manual Review Require	ed By Custom	er Represent	ative -
5311 – 86 Street, Edmonton, Albert	2 TEE 5T0	Phono: /700\	137-2022 Fav. (700)	139-1436				
Calgary (403) 279-61	21	, i none. (760) (Col	d Lake	(780) 594-1114		pus Christi, TX	(361) 888-4700
Lloydminster (780) 875-64 Barhead (780) 674-30				t McMurray h Level	(780) 743-1536 (780) 956-4094		er Park, TX rix, Houston, TX	(281) 476-4444 (713) 722-7177

(780) 594-1114 (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

(918) 446-8773

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



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Client: CNRL	LSD: (01-05-080-1	16W5 Jurise	diction #:	\0497634			
		Attacher	to Vessel Inspection	Report #				
Attached to Vessel Inspection Report #Additional Attachments # of pages Specify								
NDE UT ⊠ MT □ PT □	ET RT		IER 🗌					
NDE Report #:								
	onal Action Item	Yes F	Repair Action Item	Deferred Ad	tion Item Yes			
Action Items / Recommendations:								
Ensure the PSV is serviced at the Ju	-	-	uirements.					
 Vessel will meet code requirements a Clean and repaint shell, piping and n 			a surface condition					
Repair or replace damaged piping installed.			g surface condition.					
3, 3, 3, 3, 3, 3, 3, 3, 1, 3	,							
Actions Corrected at Time of Inspection: (If action	ns were corrected at	the time of Ins	pection – note the corrected	d actions here.)				
Meets Code Criteria: - No		Re-Ins	pection Required - 1	No				
Recommended Inspection Intervals:								
VE Inspect. Last Inspection: -	Inter	val (yrs)		Next Inspection:	- 0			
VI Inspect. Last Inspection: -	Inter	val (yrs)		Next Inspection:	- 0			
UT Inspect. Last Inspection: -	Inter	val (yrs)		Next Inspection:	- 0			
PSV Service Last Inspection: -	Inter	val (yrs)		Next Inspection:	- 0			
<u> </u>	Consum	ablasi	Inancetory	-				
Unit # Kilometers:		ables.	Inspector: _Wes Farquhar	PES	L: 462			
In 00:00 Out 00:00 Hrs In 00:00 Out 00:00 Hrs			(Print	,	Pl: 29669 / 32195			
Personnel:			(Sign					
			Client Representative:	(Print)	_			
P.O.# / W.O.#/AFE #:			agreement with report contents:	(Sign)				
5311 - 86 Street, Edmonton, Alberta T6E 5T8 Phone: (780) 437- Calgary (403) 279-6121	2022 Fax: (780) 438-14 Cold Lake		594-1114	Corpus Christi, TX	(361) 888-4700			
Calgary (403) 279-6121 Lloydminster (780) 875-6455 Barhead (780) 674-3018	Fort McMu High Level	rray (780)	1594-1114 1743-1536 1956-4094	Deer Park, TX Matrix, Houston, TX	(281) 476-4444			
Nisku (780) 955-7616	Red Deer Medicine H	(403)	347-1742 527-6284	Texas City, TX Tulsa, OK	(490) 945-2262 (918) 446-8773			

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Equipment Photographs:





Figure 1_Nameplate_13May09

Figure 2_Inlet Separator_13May09





Figure 3_Paint Deteriorating_13May09

Figure 4_Mild Active Corrosion_13May09

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Equipment Photographs:



Figure 5_Insulation Damage to Drain Piping_13May09