



Figure 1_Nameplate_14May09



TANK INSPECTION CHECKLIST AND SUMMARY

Report #: 137865-SM-36
Inspect Date: 05/14/2009
Page: 1 of 3
IRISNDT #: 137865

Fire Tube:		INIGIND 1 #. 137003											
Nomer ID #: SN8298													
Formundation: Grave AST / UST Equipment Description: Crude Oil Tank	<u> </u>			Unit:									
Manufacture: Argo Sales Ltd.		Owner ID #: SN8298 Equip Tag #								Seria	Serial #:		
Status: In Service Date Removed From Service: Y						TAST				Year Bu	Year Built: 2002		
Des. Fill Height:		Manufacturer: Argo Sales Ltd. Equipment Description: Crude Oil Tank											
Fire Tube:													
Secondary Containment Type:		Des. Fill Height:			_		-						N
C.A.:								-	Ft.				N
SHELL													
Material Nominal Thickness 0.188 in. Components Type Material Nominal Components Material Nominal Roof Fixed 0.250 in. Floor 0.250 in.		C.A.:	Coating	g: 🛛 Y [N	F	Paint	: 🛛 Y [N	Cathodic:] Y 🖾 N An	odic: 🔲 Y 🛭	∃N [
Nominal Thickness		SHELL	Course 1		C	Cours	se 2			Course 3	С	ourse 4	
Components		Material											
Roof Fixed D.250 in. Floor D.250 in. O.250 D.250 D.250		Nominal Thicknes	ss 0.188 in.										
Process Leaks (flanges, vents, etc.)		Components	Туре		Materia	al	No	minal		Components	Material	Nomina	I
Process Leaks (flanges, vents, etc.)		Roof	Fixed				0.2	50 in.		Floor		0.250 in	١.
Process Leaks (flanges, vents, etc.)		Extern	nal Inspection Item		Α	U	N			Comp	nents		Е
Weep Holes (in reinforcing pads)	1		•							Comm			
3 Manways / Nozzles	2	, ,	• '			╁╞							ᅢ
Flange Bolting (includes nuts)			loroning pado)										뮴
5 Nut Thread Engagement □ □ □ 6 Shells □ □ □ 7 Manway Davits □ □ □ 8 Gauging System □ □ □ 9 Overflows □ □ □ □ 10 Agitators / Mixers □ □ □ 11 Roofs (fixed) □ □ □ 12 Roof Drainage (water ponding on roof plates) □ □ □ 13 Stairways / Ladders / Platforms / Handrails / Cage □ □ □ 14 Attached Piping □ □ □ 15 Grounding Clips / Grounding Cable Attachment □ □ □ 16 Nameplates / Nameplate Brackets □ □ □ 17 Attachment Weld Spacing □ □ □ 18 Relief Devices (PVRV, vents, vacuum breakers, etc.) □ □ □ 19 Insulation □ □ □ 20 Insulation Support Rings (includes clips & bolting) □ □ □ 21 Paint / Protective Coating Deterioration □ □ □ 22 Patches □ □ □ □ 23 Shell-Bottom Junction / Chime □ □ □ □ 24	_	<u> </u>	ides nuts)										Ħ
Shells			•			_	ile						╅
7 Manway Davits □						_	ile						\exists
8 Gauging System	_												╅
9	8	-				ΪĒ							市
10						ite							市
11						İ	_						市
12 Roof Drainage (water ponding on roof plates)						ΪĒ	il E						市
13 Stairways / Ladders / Platforms / Handrails / Cage \(\)	12	, ,					ile						市
14 Attached Piping □ □ 15 Grounding Clips / Grounding Cable Attachment □ □ 16 Nameplates / Nameplate Brackets □ □ 17 Attachment Weld Spacing □ □ 18 Relief Devices (PVRV, vents, vacuum breakers, etc.) □ □ 19 Insulation □ □ 19 Insulation Support Rings (includes clips & bolting) □ □ 21 Paint / Protective Coating Deterioration □ □ 22 Patches □ □ □ 23 Shell-Bottom Junction / Chime □ □ □ 24 Anchor Bolting (includes nuts) / Anchor Chairs □ □ □ 25 Foundation Condition □ □ □ 26 Tank Settling □ □ □ 27 Secondary Containment □ □ □ 28 Site Drainage □ □ □ 30 Tank Shell Levelness Survey □ □ □ 31 Dents or Bulges													
16 Nameplates / Nameplate Brackets	14												
Attachment Weld Spacing	15	Grounding Clips / Grounding Cable Attachment											
Relief Devices (PVRV, vents, vacuum breakers, etc.)	16	Nameplates / Nameplate Brackets											
19 Insulation	17	Attachment Weld Spacing											
Insulation Support Rings (includes clips & bolting)	18	Relief Devices (PVR	V, vents, vacuum breake	rs, etc.)									
Paint / Protective Coating Deterioration	19	Insulation											
Patches	20	Insulation Support R	ings (includes clips & bol	ting)									
Shell-Bottom Junction / Chime Anchor Bolting (includes nuts) / Anchor Chairs Foundation Condition Tank Settling Site Drainage Area Housekeeping Tank Shell Levelness Survey Dents or Bulges Tank Observations: Vegetation around base is in contact with bottom shell. Vegetation around base is in contact with bottom shell. Vegetation around base is in contact with bottom shell.	21	Paint / Protective Co	pating Deterioration										
24 Anchor Bolting (includes nuts) / Anchor Chairs	22												
25 Foundation Condition 26 Tank Settling 27 Secondary Containment 28 Site Drainage 29 Area Housekeeping 30 Tank Shell Levelness Survey 31 Dents or Bulges 32 Tank Observations: 33 Site Observations:	23					_		Vegeta	ation aro	und base is in conta	act with bottom sh	nell.	
26 Tank Settling				S		_							
27 Secondary Containment 28 Site Drainage 29 Area Housekeeping 30 Tank Shell Levelness Survey 31 Dents or Bulges 32 Tank Observations: 33 Site Observations:	25		n			_							
28 Site Drainage 29 Area Housekeeping 30 Tank Shell Levelness Survey 31 Dents or Bulges 32 Tank Observations: 33 Site Observations:						_	<u> </u>	1					49
29 Area Housekeeping		-	nent			_	<u> [</u>	1					\Box
30 Tank Shell Levelness Survey													4
31 Dents or Bulges 32 Tank Observations: 33 Site Observations:								Vegeta	ation aro	und base is in conta	act with bottom sh	nell.	14
32 Tank Observations: 33 Site Observations:													
33 Site Observations:										\boxtimes			
		+											
A = Acceptable N = Not applicable					1	NI -	.4	allas III					
U = Unacceptable - requires further assessment E = Engineering to determine suitability for service.		•	anuirae furthar accae	emont						mina suitahility f	or service		
C = Engineering to determine suitability for service.		- Ondoooplable - Te	Adulto iditilei asses				3.116		- ucteri				_

Edmonton	(780) 437-4747	Fort McMurray	(780) 743-1536	Cold Lake	(780) 594-1114	Mailing Address
Calgary	(403) 279-6121	Grande Prairie	(780) 532-2283	Red Deer	(403) 347-1742	5311 – 86 Street
Nisku	(780) 955-7616	High Level	(780) 841-0470	Tulsa, OK	(918) 446-8773	Edmonton, Alberta
Barrhead	(780) 674-3018	Lloydminster	(780) 875-6455	Houston, TX	(281) 476-4444	T6E 5T8



TANK INSPECTION CHECKLIST AND SUMMARY

Report #: 137865-SM-36
Report Date: 05/14/2009
Page: 2 of 3
IRISNDT #: 137865

	Client: CNRL LSD:		04	-11-	079-17W5 Owner ID #: SN8298	
	Internal Inspection Item	Α	U	N	Comments	Е
	Floor					
1	Floor Corrosion					
2	Shell to Floor Weld					
3	Floor Welds					
4	Anodes					
5	Bulging					
6	Coating					
	Shell					
7	Shell Corrosion					
8	Internal Piping					
9	Vertical Welded Joints					
10	Vertical Riveted Joints					
11	•					
	Circumferential Welded Joints					
13	Circumferential Riveted Joints					
14	Nozzle Condition					
15	Dents or Bulges					
	Roof					
16	Roof Corrosion					
17	Roof Coating					
	Overall					
18	Internal Gauging System					
19	Internal Skimmer					
20	Patch Plates					
	Supports (Includes Centre Beam, Girders, etc)					
	Piping Supports					
	De-sand System					
_	Fire Tubes					
	= Acceptable	N =	Not	app	licable	
_	= Unacceptable - requires further assessment	E=	Eng	inee	ering to determine suitability for service.	
I	nspection Comments:					

Edmonton	(780) 437-4747	Fort McMurray	(780) 743-1536	Cold Lake	(780) 594-1114	Mailing Address
Calgary	(403) 279-6121	Grande Prairie	(780) 532-2283	Red Deer	(403) 347-1742	5311 – 86 Street
Nisku	(780) 955-7616	High Level	(780) 841-0470	Tulsa, OK	(918) 446-8773	Edmonton, Alberta
Barrhead	(780) 674-3018	Lloydminster	(780) 875-6455	Houston, TX	(281) 476-4444	T6E 5T8



TANK INSPECTION CHECKLIST AND SUMMARY

Report #: 137865-SM-36
Report Date: 05/14/2009
Page: 3 of 3
IRISNDT #: 137865

Cli	ent:	CNRL		LSD:	04-11-07	9-17W5	Owner ID #:	SN8298
Additional Atta					Specify	hed to Tank Inspe	ection Report #	
NDE Perforr NDE Repo		JT 🗌 MT	☐ PT	∐ E	T RT	OTHER [
Conclusion:	⊠ Acc	eptable for con	tinued use	1	Not acceptable fo	r continued use	☐ Repairs require	ed
Inspection Co	omment	s (Continued):						
An external	visual in	spection was p	erformed or	n tank a	nd the findings a	e as follows:		
The The The The The The The The	e paint is ladder tank is level g PVRV	is present arous intact on the sis secure and I properly groun auge is clear aris in good conce attached phote	hell. evel. ded. nd visible. lition.			ntact with bottom	chime and shell.	
Deficiencies:								
· Ve	getation	is present arou	ind the base	of the	tank and is in co	ntact with bottom	chime and shell.	
Recommenda	tions:							
Remove the vegetation from the area to prevent a corrosive environment from developing.								
Unit #		Kilometers:			Consumables:	Inspector:		
		Out				Saeed Majnia	(Print)	CERT:
In	(Out	Hrs					No.:
Personnel:							(Signature) nent with report contents: ative	
					-	-		
Edmonton Calgary Nisku	(403)	437-4747 279-6121 955-7616	Fort McMurra Grande Prairie High Level	(7	80) 743-1536 80) 532-2283 80) 841-0470	Cold Lake Red Deer Tulsa, OK	(780) 594-1114 (403) 347-1742 (918) 446-8773	Mailing Address 5311 – 86 Street Edmonton, Alberta

Houston, TX

(281) 476-4444

T6E 5T8

(780) 875-6455

Lloydminster

(780) 674-3018

Barrhead





Figure 2_Crude Oil Tank_14May09