

**Canadian Natural Resources Limited
GENERAL TANK INFORMATION**

Job 10.115015

District: Swan Hills AB.	Skid No.
Facility: Springburn Battery	Location (LSD): 04-11-79-17 W5M
Tank Name / Equipment Number: 1000 bbl Oil Tank	
Orientation: Vertical	
Status: In Service	Regulatory Inspection

TANK NAMEPLATE DATA

"A" or "G" or "S" (Sask.) or BC Registration Number. C57013		CRN Number: Not Required	
Tank serial number: 8297		Size: 21.5 ft X 18 ft	
Shell thickness: 4.8 mm		Shell material: SA 36	
Bottom thickness: 6.4 mm		Bottom material: SA 36	
Deck thickness: 4.8 mm		Deck material: SA 36	
Tube diameter:		Tube length:	
Channel thickness:		Channel material:	
Design pressure	Shell: 4 oz	Operating pressure	Shell:
	Tubes:		Tubes:
Design Temp.	Shell:	Operating temperature	Shell:
	Tubes:		Tubes:
X-ray: No		Heat treatment: Nil	
Code parameters: API 12 F		Coated: Yes – Devoe 253	
Manufacturer: ARGO Sales		Year built: 2002	
Corrosion allowance: Not Stated		Man way: Yes	

PRESSURE SAFETY VALVE NAMEPLATE DATA

PSV Tag #	Manufacture / Model / Serial	Set Pressure (PSI / kPa)	Capacity (scfm / usgpm)	Size	Block Valve	Location	Service by / Date

SERVICE CONDITIONS-INDICATE ALL THAT APPLY

Sweet X	Sour	Oil X	Gas X	Water
Amine	LPG	Condensate	Air	Glycol

Other (Describe):

Inspection Interval _____ **PSV Service Interval** _____

(Determined by MIC in conjunction with Chief Inspector following guidelines of Canadian Natural Resources Limited Owner-User Inspection Program)

Reports reviewed and accepted by:

Mechanical Integrity Coordinator _____ **Date** _____

Fill out all forms as completely as possible. All information is important! Use back of sheets to record additional information or sketch if required. Copy of report to be filed by MIC at site, and copy sent to Chief Inspector.

External Inspection Items	G	F	P	N/A	Comments
Insulation Verify sealed around manways, nozzles, no damage present, and there is no egress of moisture.				X	Tank is not insulated.
External Condition Assess paint condition, areas peeling, record any corrosion, damage, etc (record location, size and depth of corrosion or damage)		X			Paint is in fair condition, oxidized surface – no corrosion.
Leakage Record any leakage at flanges, threaded joints, weep holes on repads, etc.	X				No leakage noted.
Base Assess condition of paint, fire protection, concrete. Look for corrosion, buckling, dents, etc. Is tank mounted above ground water level – on pilings? Ground wire attached?	X				No distortion to base – no sign of leakage at attachment welds to tank. Ground wire attached to tank.
Anchor Bolts Hammer tap to ensure secure. Look for cracking in treads or signs of deformation. Is tank resting on deck – welded to supports?				X	Tank sits level on compacted sand and clay base.
Concrete foundation There may be a concrete ring under the tank. Check for cracks, spalling, etc.				X	
Ladder / Platform Describe general condition, ensure support is secure to vessel, describe any hazards.	X				Good condition, firmly attached to tank shell – no loose or missing sections.
Nozzle Assess paint, look for leakage, and ensure stud threads are fully engaged. Record any damage, deflection, etc. Are nozzles gusseted?	X				Flanged and threaded nozzle joints are fully engaged. No damage or deflections – no leaks. Nozzles are not gusseted.
Gauges Ensure gauges are visible, working, no leakage, and suitable for range of MAWP/ Temp. Remember some tanks require fuel gas or other positive protection so a pressure gauge may be installed.	X				Gauge board on tank.
External Piping Ensure pipe is well supported. All clamps, supports, shoes, etc. in place. Look for evidence of structural overload, deflection, etc. Paint condition, insulation condition, any wet insulation, any external corrosion?	X				Well supported, no deflection, clamps in place. Piping is insulated – no open sections.
Valving Ensure no leaks are visible. Valves are properly supported and chained if necessary.	X				Valves are supported – no evidence of leaks.
PSV Ensure PSV is set at pressure at or below that of vessel.				X	No PSV on tank.
NDE methods Was UT/ MPI done on vessel (MI coordinator to review results)				X	No NDE inspections.
Secondary Containment: This may be a double wall tank with a pressure gauge or level gauge indicator. Also a concrete or steel dike with vinyl liner – describe.	X				Concrete dike with vinyl liner.
Recommendations or corrective actions : (Tank is Fit for Service or describe corrective actions required) (MIC to review corrective actions with Operations, discuss with Chief Inspector where necessary, and get remedial action implemented) Recommendations: 1. No recommendations. Summary: Tank is in overall good condition, visual external inspection carried out – no items of concern. Tank is fit for Service					

Carey Menzies Carey Menzies API 510 47162

Inspected by: Dellas Wiedman API 653 27888

Date: Aug 6, 2014



LSD

Equipment Tag and Data Plate



Overview