

1060-04

Canadian Natural Resources Limited
Production - Facilities Engineering
A0492259 Scavenger Tower External Inspection Report

Content Date Range: 6/24/2003 to 6/24/2003

Vessel Integrity

Inspection Data

Open: 4/19/2007 Close:

CC+2 0P P

Vital: Yes
Original: Yes
Confidential: No



00784571

A0492259 - SCAVENGER TOWER INSPECTION - JUN 2003

Vessel Location (LSD):	100/15-28-75-07 W6M.	Disc #:	Photo #:
Facility Name:	SADDLE HILLS.	Inspector:	J. OLIVER.
Vessel Description:	SCAVENGER TOWER.	Date:	JUNE 24/03
Prov. Reg. Number:	A492259	CRN:	R2223.2
		Page:	1 of 2

GENERAL INFORMATION

Manufacturer:		Serial Number:		3202-1						
RT:	HT:	YES <input type="checkbox"/> NO <input type="checkbox"/>	Internally Coated:	YES <input type="checkbox"/> NO <input type="checkbox"/> NOT KNOWN <input type="checkbox"/>	Insulated:	YES <input type="checkbox"/> NO <input type="checkbox"/> PARTIAL <input type="checkbox"/>				
Sh. Side MAWP:		Psi / Kpa @		F / C		Tube Side MAWP:	Psi / Kpa @		F / C	
Sh. Side Op. Pr:		Psi / Kpa @		F / C		Tube Side Op. Pr:	Psi / Kpa @		F / C	
Hd. Tk:	Mat'l:	C.A.:	Chan. Hd. Tk:	Mat'l:	C.A.:					
Hd. Tk:	Mat'l:	C.A.:	Chan Sh. Tk:	Mat'l:	C.A.:					
Sh. Tk:	Mat'l:	C.A.:	Trans. Tk:	Mat'l:	C.A.:					
Sh. Tk:	Mat'l:	C.A.:								
VESSEL SIZE: (ID / OD X L):			Strapped:	YES <input type="checkbox"/> NO <input type="checkbox"/>	Manway:	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	SIZE: 18"			

SERVICE CONDITIONS (CHECK ALL THAT APPLY)		OPERATING <input type="checkbox"/> SHUT IN <input type="checkbox"/> SURPLUS <input checked="" type="checkbox"/> JUNK <input type="checkbox"/>	
PROCESS	Air <input type="checkbox"/> Lean Amine <input type="checkbox"/> Rich Amine <input type="checkbox"/> Sweet Glycol <input type="checkbox"/> Sweet Gas <input type="checkbox"/> Sweet Condensate <input type="checkbox"/> Sweet Oil <input type="checkbox"/>		
LPG <input type="checkbox"/> Sour Glycol <input type="checkbox"/> Sour Gas <input checked="" type="checkbox"/> Sour Condensate <input type="checkbox"/> Sour Oil <input type="checkbox"/> Carbon Dioxide <input type="checkbox"/> Nitrogen <input type="checkbox"/> Steam <input type="checkbox"/>			

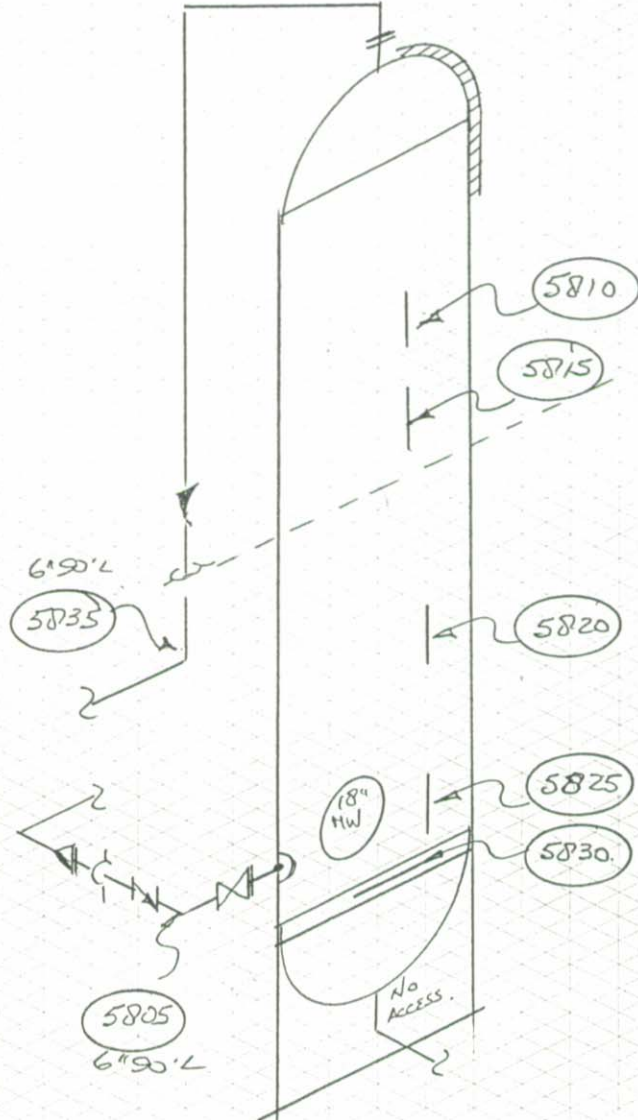
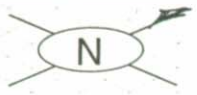
VESSEL EXTERNAL CONDITION

Any Recent Repairs? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Any Physical Damage? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Any External Corrosion? (other than minor surface rust) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Any leaks on the vessel, nozzles or piping? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Any recent ultrasonic thickness tests? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> JUNE 24/03	
No. of times the site is visited & approx. amount of time spent at the site / visit:	Concentration H ₂ S:
Vessel Comments: NO VESSEL NOMINALS, MATERIALS, OR CORR. ALL. NO ACCESS TO CTR. BTM. HEAD OR 2" DRAIN.	

PSV DATA

ANADARKO TAG #:	NO TAG.	SERVICE COMPANY:	
Manufacture:	Size:	Comments:	
Model #:	CRN #:		
Serial #:	Capacity:		
Set Date:	Set Pressure:		
Are there any Isolating valves on either the inlet or outlet of the PSV? Yes <input type="checkbox"/> No <input type="checkbox"/>			

P&ID. # _____
REF. # _____



VESSEL DATA

Prov. Reg. No. A492259 C.R.N. R2223.2 P.E. No. _____ Serial No. 3202-1
MFR. HOSS Code/Div. _____ Para _____ Code Stamp u
Yr. Bld. 03 Yr. Inst. _____ Size 5'6" X 220' Vol. _____ Service _____ PWHT YES

Nominal Thickness & Material

Insulated PARTIAL R.T. 1

Head: _____ Mat'l: _____ C.A.: _____ Repairs _____
Head: _____ COMMENTS _____
Shell: _____ C.A.: _____
Shell: _____
Chan Hd: _____ C.A.: _____
Chan Sh: _____
Gas Boot Hd: _____ C.A.: _____
Gas Boot Sh: _____
Liq. Boot Hd: _____ C.A.: _____
Liq. Boot Sh: _____

ANADARKO CANADA CORPORATION
SADDLE HILLS GAS GATHERING
SADDLE HILLS
LSD: 100/15-2B-75.07 W6

SCAVENGER TOWER

MAWP Shell Side 1415 PSI @ Temp. -20 / 150 F
MAWP Tube Side _____ @ Temp. _____

TECH.:	REV. DATE:	DWG DATE:
CAD:	REVISION:	DRAWING: <u>58</u>

Vessel Location (LSD):	100/15-28-75-07 W64.	Disc #:		Photo #:	
Facility Name:	SADDLE HILLS.	Inspector:	J. OLIVER		
Vessel Description:	INHIBITOR SURGE TANK	Date:	JUNE 24/03		
Prov. Reg. Number:	- 0492259B	CRN:	L 8748.2	Page:	1 of 2.

GENERAL INFORMATION

Manufacturer:		Serial Number:	3202-3,		
RT:		HT:	YES <input type="checkbox"/> NO <input type="checkbox"/>	Internally Coated:	YES <input type="checkbox"/> NO <input type="checkbox"/> NOT KNOWN <input type="checkbox"/>
				Insulated:	YES <input type="checkbox"/> NO <input type="checkbox"/> PARTIAL <input type="checkbox"/>
Sh. Side MAWP:		Psi / Kpa @	F / C	Tube Side MAWP:	
					Psi / Kpa @ F / C
Sh. Side Op. Pr:		Psi / Kpa @	F / C	Tube Side Op. Pr:	
					Psi / Kpa @ F / C
Hd. Tk:		Mat'l:		C.A.:	
Hd. Tk:		Mat'l:		C.A.:	
Sh. Tk:		Mat'l:		C.A.:	
Sh. Tk:		Mat'l:		C.A.:	
VESEL SIZE: (ID / OD X L):		Strapped:	YES <input type="checkbox"/> NO <input type="checkbox"/>	Manway:	YES <input type="checkbox"/> NO <input type="checkbox"/> SIZE:

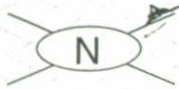
SERVICE CONDITIONS (CHECK ALL THAT APPLY)	OPERATING <input type="checkbox"/> SHUT IN <input type="checkbox"/> SURPLUS <input checked="" type="checkbox"/> JUNK <input type="checkbox"/>
PROCESS	Air <input type="checkbox"/> Lean Amine <input type="checkbox"/> Rich Amine <input type="checkbox"/> Sweet Glycol <input type="checkbox"/> Sweet Gas <input type="checkbox"/> Sweet Condensate <input type="checkbox"/> Sweet Oil <input type="checkbox"/>
LPG <input type="checkbox"/> Sour Glycol <input type="checkbox"/> Sour Gas <input type="checkbox"/> Sour Condensate <input type="checkbox"/> Sour Oil <input type="checkbox"/> Carbon Dioxide <input type="checkbox"/> Nitrogen <input type="checkbox"/> Steam <input type="checkbox"/>	

VESEL EXTERNAL CONDITION

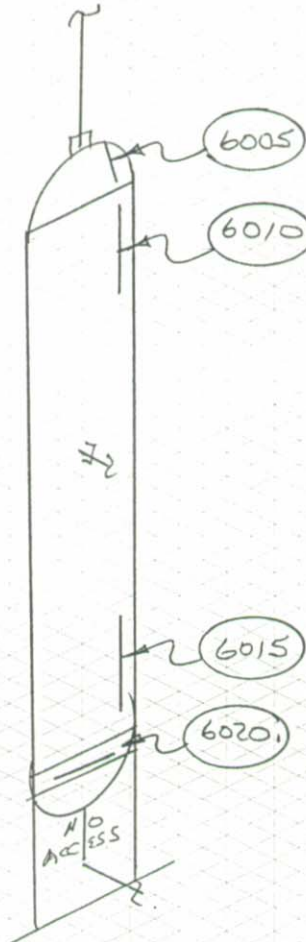
Any Recent Repairs? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Any Physical Damage? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Any External Corrosion? (other than minor surface rust) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Any leaks on the vessel, nozzles or piping? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Any recent ultrasonic thickness tests? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> : JUNE 24 / 03	
No. of times the site is visited & approx. amount of time spent at the site / visit:	Concentration H ₂ S:
Vessel Comments: NO VESSEL NOMINALS, MATERIALS, OR CORR. ALL. NO ACCESS TO CTR. BTH. HD.	

PSV DATA

ANADARKO TAG #:	NOTAG.	SERVICE COMPANY:	
Manufacture:		Size:	
Model #:		CRN #:	
Serial #:		Capacity:	
Set Date:		Set Pressure:	
Are there any Isolating valves on either the Inlet or outlet of the PSV? Yes <input type="checkbox"/> No <input type="checkbox"/>			
Comments:			



P&ID. # _____
REF. # _____



VESSEL DATA

Prov. Reg. No. — C.R.N. L8748, 2 P.E. No. _____ Serial No. 3202-3
MFR. Moss Code/Div. _____ Para _____ Code Stamp _____
Yr. Bld. 03 Yr. Inst. _____ Size 12.8" X 36" Vol. _____ Service _____ PWHT _____

Nominal Thickness & Material

Head: _____ Mat'l: _____ C.A.: _____
Head: _____
Shell: _____ C.A.: _____
Shell: _____
Chan Hd: _____ C.A.: _____
Chan Sh: _____
Gas Boot Hd: _____ C.A.: _____
Gas Boot Sh.: _____
Liq. Boot Hd.: _____ C.A.: _____
Liq. Boot Sh.: _____

Insulated No R.T. 4

Repairs _____
COMMENTS _____

ANADARKO CANADA CORPORATION
SADDLE HILLS GAS GATHERING
SADDLE HILLS
LSD: 100/15-28-75-07464.

SCAVENGER VENT. TANK.

MAWP Shell Side 150 PSI @ Temp. -20/100 F
MAWP Tube Side _____ @ Temp. _____

TECH: _____	REV. DATE: _____	DWG DATE: _____
CAD: _____	REVISION: _____	DRAWING: <u>60</u>