

A0475190- LINE HEATER INSPECTION - JUN 2003

1060-04

Canadian Natural Resources Limited
Production - Facilities Engineering
A0475190 Line Heater External Inspection Report

Content Date Range: 6/23/2003 to 6/23/2003

Vessel Integrity

Inspection Data

Open: 4/23/2007 Close:

CC+2 0P P



00784778

Vital: Yes
Original: Yes
Confidential: No

Vessel Location (LSD):	08-08-76-06 W6M.	Disc #:		Photo #:	
Facility Name:	SADDLE HILLS	Inspector:	J. OLIVER		
Vessel Description:	LINE HEATER	Date:	JUNE 23/03		
Prov. Reg. Number:	A 475190	CRN:	K1977.2	Page:	1 of 2

GENERAL INFORMATION

Manufacturer:		Serial Number:				
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 type="checkbox"/> NO <input type="checkbox"/> SIZE:

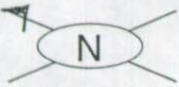
SERVICE CONDITIONS (CHECK ALL THAT APPLY)	OPERATING <input type="checkbox"/> SHUT IN <input type="checkbox"/> SURPLUS <input checked="" type="checkbox"/> JUNK <input type="checkbox"/>
PROCESS	Air <input type="checkbox"/> Lean Amine <input type="checkbox"/> Rich Amine <input type="checkbox"/> Sweet Glycol <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"/>	

VESSEL EXTERNAL CONDITION

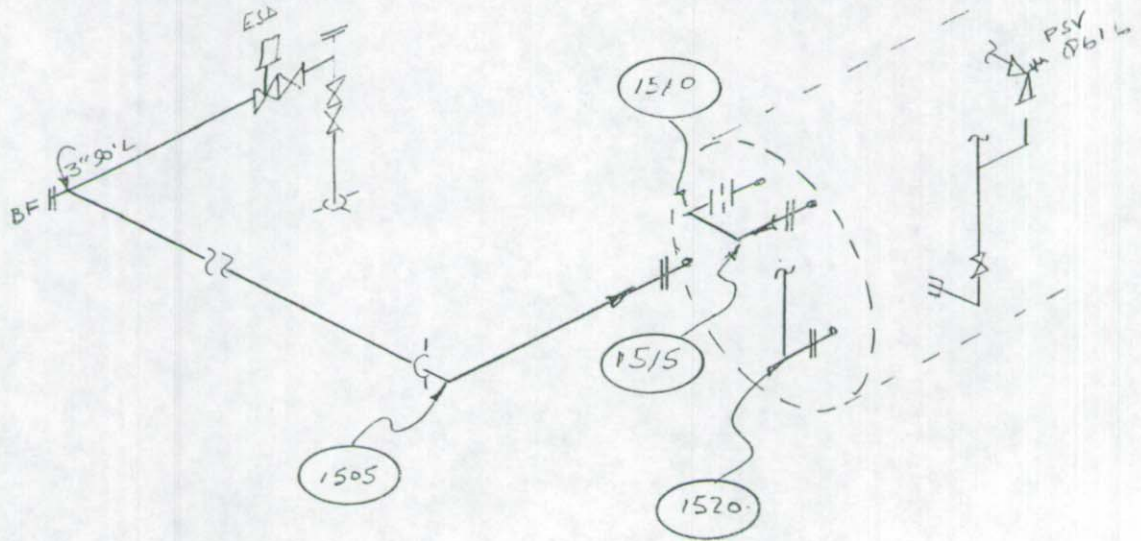
Any Recent Repairs? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Any Physical Damage? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Any External Corrosion? (other than minor surface rust) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
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 23/03.	
No. of times the site is visited & approx. amount of time spent at the site / visit:	Concentration H ₂ S:
Vessel Comments: <i>THIS FACILITY IS NOT YET IN OPERATION.</i>	

PSV DATA

ANADARKO TAG #:	PSV 8616	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. A475190 C.R.N. K1977.12 P.E. No. _____ Serial No. 126.90-01-C
MFR. MAR-QUINN Code/Div. _____ Para _____ Code Stamp _____
Yr. Bld. 01 Yr. Inst. _____ Size 76.2MM x 12.49M Vol. _____ Service SOUR PWHT YES

Nominal Thickness & Material

Head: _____ Mat'l: _____ C.A.: 3.2
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 PARTIAL R.T. 100 ?

Repairs _____
COMMENTS PRE HT COIL 2950 PSI @ -20/200 F
RE HT. COIL 2025 PSI @ -20/200 F

ANADARKO CANADA CORPORATION
SADDLE HILLS GAS GATHERING
ETALSADDLE HILLS
LSD: 08-88-76-07 W6M
WELL # LINE HEATER PIPING

MAWP Shell Side _____ @ Temp. _____
MAWP Tube Side _____ @ Temp. _____

TECH.:	REV. DATE:	DWG DATE:
CAD:	REVISION:	DRAWING:

Vessel Location (LSD):	08-08-76-07 W6.	Disc #:		Photo #:	
Facility Name:	SADDLE HILLS.	Inspector:	J. OLIVER		
Vessel Description:	LINE HTR. FUEL GAS SCRUBBER	Date:	JUNE 23 / 03		
Prov. Reg. Number:	0975190B -	CRN:	OH/531.123	Page:	1 of 2.

GENERAL INFORMATION

Manufacturer:					Serial Number:						
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.:								
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:		

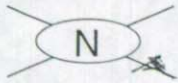
SERVICE CONDITIONS (CHECK ALL THAT APPLY)	OPERATING <input type="checkbox"/> SHUT IN <input type="checkbox"/> SURPLUS <input checked="" type="checkbox"/> JUNK <input type="checkbox"/>
PROCESS	Air <input type="checkbox"/> Lean Amine <input type="checkbox"/> Rich Amine <input type="checkbox"/> Sweet Glycol <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"/>	

VESSEL EXTERNAL CONDITION

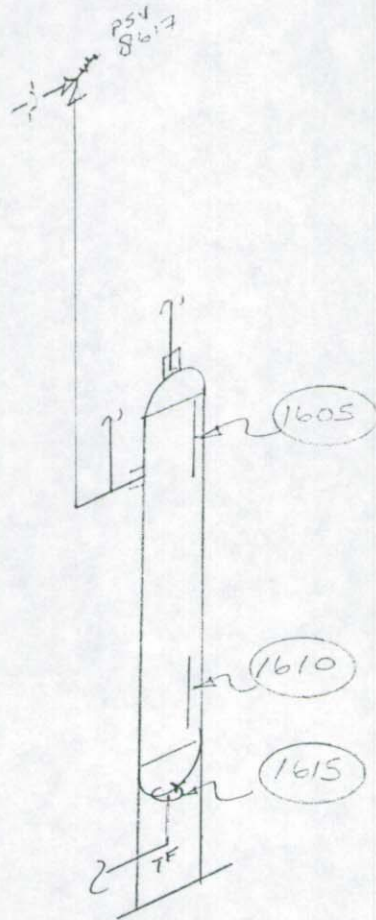
Any Recent Repairs? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Any Physical Damage? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Any External Corrosion? (other than minor surface rust) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
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"/> JUN 23 / 03.	
No. of times the site is visited & approx. amount of time spent at the site / visit:	Concentration H ₂ S:
Vessel Comments: THIS FACILITY IS NOT YET IN OPERATION.	

PSV DATA

ANADARKO TAG #:	SERVICE COMPANY:	Comments:
Manufacturer:	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"/>		



P&ID. # _____
REF. # _____



VESSEL DATA

Prov. Reg. No. _____ C.R.N. OH1531.123 P.E. No. _____ Serial No. 127-61-01
MFR. MAR-QUINN Code/Div. _____ Para _____ Code Stamp _____
Yr. Bld. 01 Yr. Inst. _____ Size 203 X 762 MM Vol. .031M³ Service SWEET PWHT YES

Nominal Thickness & Material

Head: 6.4 Mat'l: SA 234 WPB C.A.: 3.2
Head: _____
Shell: 8.2 SA 106B C.A.: 3.2
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. 1

Repairs _____
COMMENTS _____

ANADARKO CANADA CORPORATION,
SADDLE HILLS GAS GATHERING,
ET AL SADDLE HILLS,
LSD: 08-08-76-0706M,
LINE HTR, FUEL GAS SCRUBBER

MAWP Shell Side 250 PSI @ Temp. -20/100°F
MAWP Tube Side _____ @ Temp. _____

TECH.:	REV. DATE:	DWG DATE:
CAD:	REVISION:	DRAWING: