

A0475317\_LINE HEATER INSPECTION - JUN 2003

1060-04

Canadian Natural Resources Limited  
Production - Facilities Engineering  
A0475317 Line Heater External Inspection Report

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

Vessel Integrity

Inspection Data

Open: 4/20/2007 Close:

CC+2 0P P



00784667

Vital: Yes  
Original: Yes  
Confidential: No



Vessel Location (LSD):	100/06-27-75-07 W64.	Disc #:		Photo #:	
Facility Name:	SADDLE HILLS.	Inspector:	J. OLIVER		
Vessel Description:	(WEST) LINE HEATER.	Date:	JUNE 23/03		
Prov. Reg. Number:	A475317	CRN:	K1977.12.	Page:	1 of 2.

**GENERAL INFORMATION**

Manufacturer:					Serial Number:	126-96-01-C.	
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 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"/>	

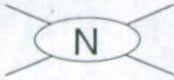
**VESSEL EXTERNAL CONDITION**

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"/> <i>JUNE 23/03</i>	
No. of times the site is visited & approx. amount of time spent at the site / visit:	Concentration H <sub>2</sub> S: <i>150 PPM</i>
Vessel Comments:	

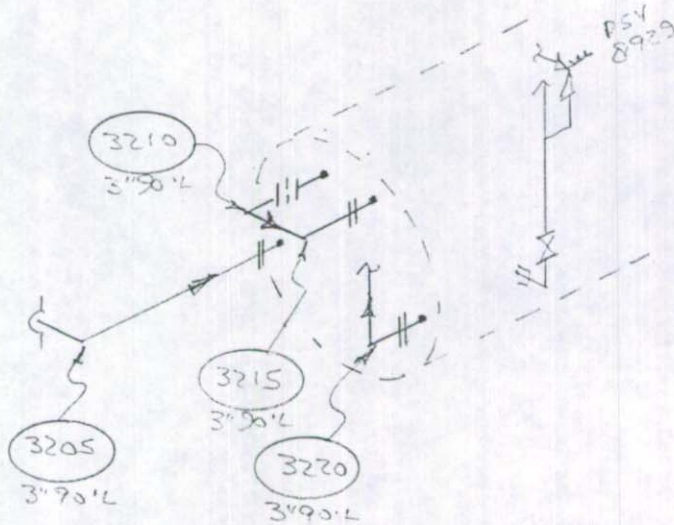
**PSV DATA**

ANADARKO TAG #:	<i>PSV-8929.</i>	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"/>			





P&ID. # \_\_\_\_\_  
REF. # \_\_\_\_\_



( WEST LINE HEATER )

### VESSEL DATA

Prov. Reg. No. A475317 C.R.N. K-1977.12 P.E. No. \_\_\_\_\_ Serial No. 126-96-01-C  
MFR. MAR-QUINN Code/Div. \_\_\_\_\_ Para \_\_\_\_\_ Code Stamp \_\_\_\_\_  
Yr. Bld. 01 Yr. Inst. \_\_\_\_\_ Size 76.2MM X 12.49M Vol. \_\_\_\_\_ Service SOUR 150 PSI PWHT YES.

### 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 PARTIAL R.T. 150 °F

Repairs \_\_\_\_\_  
COMMENTS PRE HT COIL 2950 PSI @ -20°/200°F  
RE HT COIL 2025 PSI @ -20°/200°F  
CORR. 17LL 3.2MM

ANADARKO CANADA CORPORATION.  
SADDLE HILLS GAS GATHERING.  
SADDLE HILLS  
LSD; 100/06-27-75-07 WBM.  
LINE HEATER.

MAWP Shell Side \_\_\_\_\_ @ Temp. \_\_\_\_\_  
MAWP Tube Side \_\_\_\_\_ @ Temp. \_\_\_\_\_

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



Vessel Location (LSD):	100/06-27-75-07 W6M.	Disc #:	Photo #:
Facility Name:	SADDLE HILLS	Inspector:	
Vessel Description:	(WEST) LINE HEATER FUEL GAS SCRUBBER	Date:	
Prov. Reg. Number:	— 0975317B	CRN:	041531.123
		Page:	1 of 2

**GENERAL INFORMATION**

Manufacturer:		Serial Number:		127-67-01	
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:
Sh. Side MAWP:		Psi / Kpa @		F / C	
Sh. Side Op. Pr:		Psi / Kpa @		F / C	
Tube Side MAWP:		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 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**

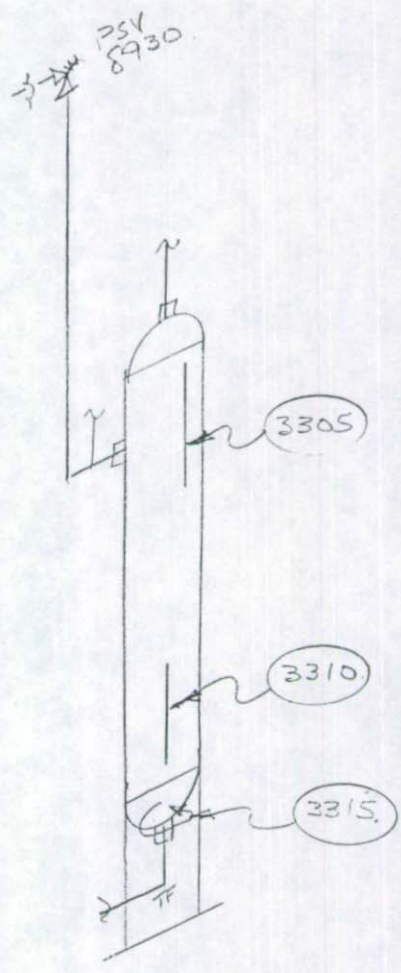
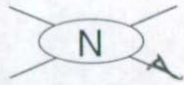
Any Recent Repairs? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Any Physical Damage? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Any External Corrosion? (other than minor surface rust) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
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"/> <span style="float: right;">JUNE 23/03</span>	
No. of times the site is visited & approx. amount of time spent at the site / visit:	Concentration H <sub>2</sub> S: <span style="float: right;">0</span>
Vessel Comments:	

**PSV DATA**

ANADARKO TAG #: PSV-8930		SERVICE COMPANY:	
Manufacturer:	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. — C.R.N. 04/531.123 P.E. No. \_\_\_\_\_ Serial No. 127-67-01  
 MFR. MAR-QUINN. Code/Div. \_\_\_\_\_ Para \_\_\_\_\_ Code Stamp \_\_\_\_\_  
 Yr. Bld. 01 Yr. Inst. \_\_\_\_\_ Size 203 X 762MM Vol. .031M<sup>3</sup> Service SOURISOPAH, PWHT YES.

### Nominal Thickness & Material

Head: 6.4 Mat'l: SA 234 WP2 C.A.: 3.2  
 Head: \_\_\_\_\_  
 Shell: 8.2 SA 106 B 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 \_\_\_\_\_

PNADARICO CANADA CORPORATION  
SADDLE HILLS GAS GATHERING  
SADDLE HILLS.  
LSD: 100/06-27-75-07 WGM.  
LINE HEATER FUEL GAS SCRUBBER.

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

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