



431781

**RAE Inspection Service (1979) Ltd.**

#111,4808 - 87 Street, Edmonton, Alberta T6E 5W3

Phone: (780) 469-2401 Fax (780) 468-2422

Date Printed 2001/07/12

**Field Inspection Report**

Vessel # 431781

<b>Client</b>	Canadian Natural Resources Ltd.			<b>Inspection Date</b>	July 09, 2001		
<b>Prov. Reg.#</b>	431781			<b>Location</b>	McMullen		
<b>Equipment</b>	Contactor			<b>LSD</b>	10-24-77-26W4		
<b>Tag/Equip. #</b>				<b>Comp./Unit #</b>			
<b>Vessel Status</b>	In Operation			<b>Job #</b>	01-344		
<b>Manufacturer</b>	Wells Hall	<b>Serial #</b>		<b>MAWP/Temp</b>	1440 psi	130° F	
<b>CRN#</b>	M2316.21	<b>Shell Material</b>		<b>Shell Thickness</b>	1.125 in		
<b>Corrosion All.</b>	in	<b>Head Material</b>		<b>Head Thickness</b>	1.059 in		
		<b>Head Material 2</b>		<b>Head Thickness 2</b>	in		
		<b>Channel Material</b>		<b>Channel Thickness</b>	in		
<b>Diameter</b>	24 in	<b>Length</b>	in	<b>RT</b>	1	<b>HT</b>	YES
<b>Year Built</b>	1997	<b>Next Inspection</b>		<b>Inspection Type</b>	VE/UT		
<b>Service</b>	Sweet	<b>Manway</b>		<b>Coating</b>	No		
<b>PSV #.</b>	PSV431781						
<b>Mfg.</b>	Farris	<b>Serial #</b>	CE3130672A10	<b>Set Pressure</b>	1440 psi		
<b>Type/Model</b>	26FA13120	<b>Capacity</b>	9312 SCFM	<b>Size</b>	1.500 in		
<b>Date of Service</b>	2001/07/09	<b>Next Service</b>	2005	<b>Service Co.</b>	Powercomm		

 AB-40 to be attached

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**Observations:**

**EXTERNAL**

Vessel is painted gray and in good condition. Vessel is welded to skirt and bolted securely to skid floor. Gauges and attached piping are in good condition. Bottom head is painted and in good condition.

**INTERNAL**

None at this time.

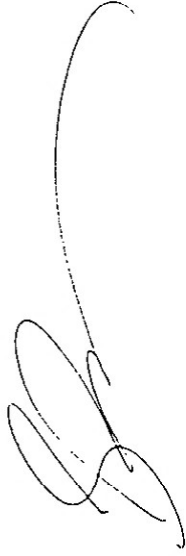
**UT**

Measurements in inches:

8' Shell	1.144, 1.149, 1.137, 1.142
Bottom Shell	1.153, 1.155, 1.153, 1.152
Botto Head	1.130, 1.130, 1.155, 1.117

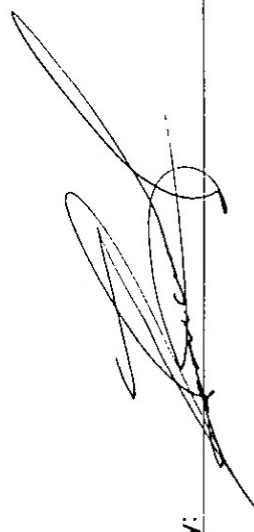
**Recommendations:**

Vessel is acceptable for continued service.



Inspector: Trevor Paananen

Reviewed by:



AB-40 to be attached



# INSPECTION SERVICE (1979) LTD.

File #: 97-172      Report #: 225  
 Client: CANADIAN NATURAL RESOURCES  
 Location: MCMULLEN  
 LSD: 10-24-77-26W4  
 Distribution: Ralph Gill

## FIELD INSPECTION REPORT

Last Edited : 8/29/97

Date of Inspection: 07/29/97      Next Inspection Due: 07/29/2001

### EQUIPMENT INFORMATION:

Prov. Reg. #: **431781**  
 Province of Registration: ALBERTA  
 Equipment Name: CONTACTOR  
 MAWP: 9928 kPa      54 °C

CRN: M2316.21      Tag #:  
 Plant: MCMULLEN  
 Manway:      Coating:  
 Service:

### ITEMS FROM PREVIOUS INSPECTIONS:

EXAMINATION METHODS:     Visual     UT     MPI     RT     LPI     PT    Other:

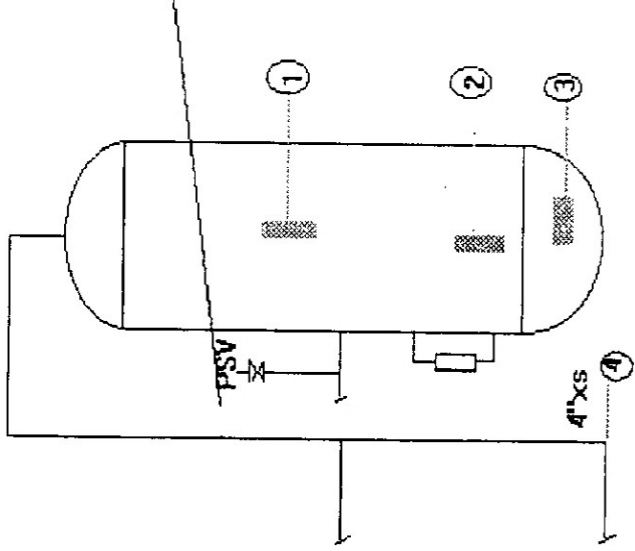
INSPECTION:     Initial     Reinspection    CLEANING:     Good     Poor     Unacceptable    ACCESS:     Internal     External

PRESSURE TESTS:     Hydro     Pneumatic    Other:    Shell    Tube    kPa    kPa

SAFETY VALVES:	MAWP (kPa)	PSV Tag No.	SET PRESSURE(kPa)	CAPACITY(m3/min)	LOCATION
Shell Side:	9928	PSV431781	9929	264	10-24-77-26W4
Tube Side:					



VESSEL SKETCH:



EXTERNAL CONDITION:



INSPECTION SERVICE  
(1979) LTD.

Report No.: 225

OBSERVATIONS:

AREA	COMMENTS
General	UT only.

ULTRASONIC THICKNESS RESULTS:

LOCATION	1	2	3	4	5	UNITS
1	1.14	1.138	1.131	1.138	1.138	inches
2	1.133	1.135	1.138	1.145	1.145	inches
3	1.194	1.185	1.182	1.185	1.185	inches
4	.339	.342	.347	.345	.345	inches



INSPECTION SERVICE  
(1979) LTD.

Report No.: 225

DISCUSSION:

RECOMMENDATIONS:

Next inspection July 2001.

**INSPECTOR:** I have witnessed/done the above inspections and certify that they have been done in accordance with our approved manual and that the information is accurate. I certify that the status of the Pressure equipment detailed here is:

Suitable to be returned to service	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
Repairs are still required	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
Repairs are complete (CB-40) attached	<input type="checkbox"/> YES	<input type="checkbox"/> NO
Suggested inspection interval	48 months	<input checked="" type="checkbox"/> N/A

Kevin Billesberger

Inspector

8/29/97

Date

**CHIEF INSPECTOR:** I certify that the information on this report is true and all inspections as required by our Owner/User Quality Assurance Program # AQP 8039 which expires in June 1999 ~~have been done~~

Hennie Prinsloo  
Chief Inspector



9/4/97

Date

# Certificate of Inspection

APR 14 1997

CANADIAN NATURAL  
RESOURCES LTD.: SUITE 2000, ESSO PLAZA  
425-1 STREET SW  
CALGARY, ALBERTA  
T2P 3L8

LOCATION: CANADIAN NATURAL RESOURCES - STOCK  
COMPANY CODE: 97-3

PREFERRED RE-INSP. INTERVAL: 2.00 Yrs  
CRN: M2316.2

DESCRIPTION: VERTICAL GLYCOL CONTACTOR

MANUFACTURER: WELLS-HALL FAB. & CONST. LTD.  
SERIAL #: 96-8664-3

YEAR BUILT: 1997  
VOLUME: 2.25 M3

HEATING SURFACE: SURFACE AREA:

SAFETY VALVES

PART	MAX. AUTHORIZED WORKING PRESSURE	MAX. TEMP	MIN. TEMP	VALVE ID	SETTING	CAPACITY LOCATION
CON	9,928 KPA	54 C	-29 C	SV1		TO BE INSTALLED

**OWNER INSTRUCTIONS/REMARKS:**

CONTACT THE AREA SAFETY CODES OFFICER BEFORE PLACING THE VESSEL IN SERVICE.  
TO BE INSTALLED IN ACCORDANCE WITH THE SAFETY CODES ACT AND REGULATIONS.

VERIFY THAT VESSEL IS PROTECTED BY A 'UV' SAFETY RELIEF VALVE, OF ADEQUATE CAPACITY, SET AT NO MORE THAN MAXIMUM PRESSURE AUTHORIZED, HAS BEEN INSTALLED IN ACCORDANCE WITH THE REGULATIONS.

SAFETY CODES OFFICER: HAJAS, LEW

SIGNATURE:

**NOTE: REQUIREMENTS OF THE SAFETY CODES ACT AND THE REGULATIONS ISSUED THEREUNDER:**

THE OWNER OR PERSON IN CHARGE SHALL REPORT ALL ACCIDENTS INVOLVING A BOILER, PRESSURE VESSEL OR PRESSURE PIPING SYSTEM TO THE DISTRICT SAFETY CODES OFFICER IMMEDIATELY AND SHALL SEND A FULL REPORT IN WRITING TO THE ADMINISTRATOR/CHIEF INSPECTOR AS REQUIRED BY THE ACT. NO REPAIRS OR ALTERATIONS MAY BE MADE UNLESS AUTHORIZED BY A SAFETY CODES OFFICER.