



3105881

RAE Inspection Service (1979) Ltd.
 #111, 4808 - 87 Street, Edmonton, Alberta T6E 5W3
 Phone: (780) 469-2401 Fax: (780) 468-2422

Field Inspection Report
Vessel A #3105881

Client	Canadian Natural Resources Ltd.		Date of Insp.	May 16, 2000	
Prov. Reg. #	3105881		Location	NIG #1	
Equipment	Vertical 3-Phase Separator		LSD	d-41-J/94-H-4	
Tag/Equip. #			Comp./Unit #	b-64-I Test	
Vessel Status	In Operation		Job #	00-274	
Fabricator	RJV	Serial #	3525	MAWP/Temp	1440 psi/ 100F
CRN#	H2451.2	Shell Mat'l	SA-106-B	Shell Thick.	1.031"
Corr. All.	0.125"	Head Mat'l	SA-516-70	Head Thick.	0.937"
Diameter	16"	Length	Height 7.5'	RT	HT Yes
Year Built	1995	Next Insp.	2003	Insp. Type	VE/VI/UT
Service	Sweet	Manway	No	Coating	No
PSV #.					
Mfg.	Mercer	Serial #	30887	Set Pressure	1440 psi
Type/Model	9117D5118145	Capacity	2927 SCFM	Size	1"
Date of Service	00/05	Next Service	2003	Service Co.	Unified

Report # 12607

Observations:

External Paint chips with surface corrosion on shell of vessel. Corrosion noted on bottom weld (east) connecting head and shell. Bolts and nuts on inlet corroded. Vessel half full of condensate. Gauges and level in working order. No access to bottom head. Vessel welded to skid floor.

Internal No pitting or corrosion noted at time of inspection. Minor black powder noted on shell of vessel.

UT Inspection (Measurements in inches)

Test Point	Nominal			
Top Shell	1.031	1.026	1.031	1.029
Mid Shell	1.031	1.011	1.016	1.018
Bottom Shell	1.031	1.019	1.018	1.020

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UT Inspection (Measurements in inches)

Test Point	Nominal			
Bottom Head	0.937	0.986	0.989	0.986
Inlet 3" XXS	0.600	(north)0.623	(top)0.626	(bottom)0.594
				(south)0.625

MPI No MPI required at this time.

Note PSV vented horizontally out of the building.

Recommendations:

1. Alberta registered vessel operating in British Columbia.
2. Forward copy of PSV report to RAE Inspection

Chris Kindrat
MGT, IT.

Inspector: Chris Kindrat



Reviewed By:

RAE Inspection Service (1979) Ltd.

#301, 8925 - 51 Avenue, Edmonton, Alberta, Canada T6E 5J3
 Telephone (403) 469-2401, Facsimile (403) 468-2422

File Number: 96-0823 Date: 23-08-96 Page 11 of 41

Equipment Identification

Owner	CNRL	In Service	<input checked="" type="checkbox"/> In-Use	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
LSD	A-41J/94-H-4			
Location Name	NORTH NIG COMPRESSOR STN.			Unit 1039
Description	VERT 3 PHASE SEPARATOR			
Manway	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - Number _____ Size _____	Coated Vessel		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Provincial Number	(A) 3105881	CRN	H2451.2
Tag Number	N/A	Serial Number	3525
Manufacturer	RSV	Year Built	9-95
MAWP	1440 PSI @ 100°F	MDMT	300°F @ 1440 PSI
Test Pressure	2160 PSI	U Stamp	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Shell Material	SA 106 B	Thickness	26 26.19 mm
Head Material	SA 516.70	Thickness	23.79 mm
Tube Material	N/A	Thickness	N/A
Corrosion Allowance	3.17 mm	Diameter	406 mm
Length	N/A	Height	2285 mm
Volume	N/A	Radiography Code	RT-2
Heat Treatment	YES	Drawing Reference	N/A
Flange Rating (ANSI)	Nozzles: 600#	Flange Rating (ANSI)	Manway: N/A
Support	<input checked="" type="checkbox"/> Skirt <input type="checkbox"/> Saddle <input type="checkbox"/> Other: _____		

Last Inspection	N/A	Next Inspection	
Inspection Type	<input checked="" type="checkbox"/> Inventory Only <input type="checkbox"/> Visual <input type="checkbox"/> RT <input type="checkbox"/> MPT <input type="checkbox"/> LPT <input type="checkbox"/> Ultrasonic <input type="checkbox"/> Coating <input type="checkbox"/> Initial <input type="checkbox"/> Reinspection		
Cleaning	<input type="checkbox"/> Good <input type="checkbox"/> Poor <input type="checkbox"/> Unacceptable	Access	<input type="checkbox"/> Internal <input type="checkbox"/> External <input type="checkbox"/> Manway <input type="checkbox"/> Thru Nozzle
Service	<input type="checkbox"/> Steam <input type="checkbox"/> LPG <input type="checkbox"/> Oil <input type="checkbox"/> Air <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Sour Gas <input type="checkbox"/> Multiphase Sour <input type="checkbox"/> Water <input type="checkbox"/> Other:		
PSV Off for Service	<input type="checkbox"/> YES - service report to be obtained <input checked="" type="checkbox"/> NO - details to be included on revers		

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Pressure Safety Valve (PSV) Input Report

File Number _____ Date _____ Page 11 of _____

SAFETY VALVE IDENTIFICATION

PSV ID Number			
Vessel/Line Identification	(A) 3105881	MAWP	
Manufacturer	MERCER	Model Number	91170511814 S
Serial Number	30887	Set Pressure	1440 PSE
Service Description	<input type="checkbox"/> Sweet <input type="checkbox"/> Sour <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Liquid <input type="checkbox"/> Multiphase <input type="checkbox"/> Cryogenic <input type="checkbox"/> Amine		
Valve Size	INLET: 1" OUTLET: 1"		
Capacity	2927	<input type="checkbox"/> ft ³ /min <input type="checkbox"/> lb/hr <input type="checkbox"/> gpm <input checked="" type="checkbox"/> other SCF/hr	
Date Placed in Service	N/A		
Date of Previous Service	1-96		
Previous Service Company	MERCER		
LSD where PSV is located	d-415 94-A-4		

This PSV protects the following vessels:	
A 3105881	Primary: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
A	Primary: <input type="checkbox"/> Yes <input type="checkbox"/> No
A	Primary: <input type="checkbox"/> Yes <input type="checkbox"/> No

COMMENTS
