



247232

Client	Canadian Natural Resources Ltd.		Date of Insp.	March 15, 2000	
Prov. Reg.#	247232		Location	Joffre	
Equipment	Inlet Separator		LSD	4-10-39-26W4	
Tag/Equip. #			Comp./Unit #		
Vessel Status	In Operation		Job #	00-073	
Fabricator	Flo-Skid Mfg. Inc.	Serial #	F 1269	MAWP/Temp	1650 psi/ 100F
CRN#	H 2710.21	Shell Mat'l		Shell Thick.	
Corr. All.		Head Mat'l		Head Thick.	
Diameter	24"	Length	Height	90°s/s	RT
Year Built	1988	Next Insp.	2004	Insp. Type	VE/UT
Service	Sweet	Manway	No	Coating	No
PSV #.	Tag #5				
Mfg.	Taylor	Serial #	02093-2CRN	Set Pressure	1650 psi
Type/Model	T 8200-1	Capacity	5928 SCFM	Size	1x1"
Date of Service	95/12	Next Service	2000	Service Co.	KMS

Report # 4149

Observations:

External Heavy numerous coats of paint. Rust on outlet flanges and nuts. Bolted to floor.
 Condensation evident. Leak at TOL for PSV/ nipple noted.

UT Inspection (Measurements in inches)

Test Point	Nominal	Minimum			
Top Head		0.6012	1.218	1.216	1.204
Top Shell		1.2791	1.170	1.181	1.164
Mid Shell		1.2791	1.166	1.161	1.169
Bottom Shell		1.2791	1.139	1.159	1.155
Bottom Head		0.6012	1.193	1.217	1.189
3" Inlet			(top) 0.607	(north) 0.622	(bottom) 0.624
3" Outlet			(north) 0.614	(east) 0.628	(south) 0.616
					(west) 0.626

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 # 247232

Recommendations:

Service PSV and reset at 1400 psig maximum.

Inspector: Jim Longstreet



Reviewed By:



QR7 INSPECTION AND TEST REPORT - PSV / PRV

Customer: CANADIAN NATURAL RESOURCES Location: NORTH JOFFRE CUST PO#: _____

SO#: 52, 11802 25 OF 63 ^{Form 044} CST Tag #: #13, SEPERATOR PCI ID: P7351 Assoc. Doc #:

Date: 00.09.05

Customer Instructions: REPAIR RUSH Contact: _____

Requested Completion Date: 00.09.08 A#: 247232 LSD: _____

Make: TAYLOR TOOLS Model: T-8200-1 S/N: _____ Shop #: _____ CRN#: 020932

Size: 1 in _____ of 1 Out _____ Ends: RF RTJ Clamp Screwed FF Open Closed Lift Lever

Visual Condition: Good Fair Poor Fouling Dirty Plugged New Sample Taken: Inlet Outlet None

Seal Condition: Top: ACC _____ Bottom: _____ Insignia: KMS _____ Last Service Date: _____ Data Plate Condition: REPLACE

Op. Temp.: _____ C _____ Capacity: 5928 SCFM/AIR Code Symbol: V UV HV None Other

Set Press.: 1650 psig 11377 kpag Back Press.: _____ psig _____ kpag Cold Diff. Set: _____ psig _____ kpag Adj. Screw Meas. _____

Set Pressure: _____ psig _____ kpag Leakage BPM @90%: _____ Testing Medium: _____ No Reseat: _____

Comments: Relieve Press.: _____ psig _____ kpag Reseat Press.: _____ psig _____ kpag

LABOUR:

ITEM	DESCRIPTION	Inspection: DS	Reassemble: DS
1	Recondition & Test		
2	Priority Rate		
3	Certification Test Only		
4	Pre Pop Test		
5	Back Pressure Test		
6	Bellows Test		
7	Cap Assembly <input type="checkbox"/> corr.(7) <input type="checkbox"/> erosion(7)		
8	Repack Lift Lever <input type="checkbox"/> thread damaged(8)		
9	Adjusting Screw / Nut <input type="checkbox"/> thread damaged(9)		
10	Bonnet <input type="checkbox"/> corr.(10) <input type="checkbox"/> thread damaged(10)		
11	Spring / Number <input type="checkbox"/> corr.(11) <input type="checkbox"/> coating chipped(11)		
12	Spring Buttons <input type="checkbox"/> pitted(12) <input type="checkbox"/> corr.(12)		
13	Spindle / Stem <input type="checkbox"/> galling(13) <input type="checkbox"/> pitting(13) <input type="checkbox"/> corr.(13) <input type="checkbox"/> bent(13)		
14	Stem Retainer <input type="checkbox"/> galling(14) <input type="checkbox"/> corr.(14) <input type="checkbox"/> thread damaged(14)		
15	Guide <input type="checkbox"/> galling(15) <input type="checkbox"/> wear(15) <input type="checkbox"/> corr.(15)		
16	Bellows <input type="checkbox"/> distortion(16) <input type="checkbox"/> punctured(16) <input type="checkbox"/> ruptured(16)		
17	Ring Pin <input type="checkbox"/> pin bent(17) <input type="checkbox"/> thread damaged(17)		
18	Blowdown Ring(s) <input type="checkbox"/> erosion(18) <input type="checkbox"/> thread damaged(18)		
19	Disc Holder <input type="checkbox"/> erosion(19) <input type="checkbox"/> pitting(19) <input type="checkbox"/> drop thread damaged(19)		
20	Disc <input type="checkbox"/> scratching(20) <input type="checkbox"/> pitting(20) <input type="checkbox"/> fouling(20) <input type="checkbox"/> erosion(20)		
21	Nozzle <input type="checkbox"/> scratching(21) <input type="checkbox"/> pitting(21) <input type="checkbox"/> fouling(21) <input type="checkbox"/> erosion(21)		
22	Ball Keeper <input type="checkbox"/> pitting(22) <input type="checkbox"/> washed(22)		
23	Keeper Seal <input type="checkbox"/> worn(23) <input type="checkbox"/> brittle(23)		
24	Ball <input type="checkbox"/> pitted(24) <input type="checkbox"/> scratched(24) <input type="checkbox"/> washed(24)		
25	Ball / Seat Assembly <input type="checkbox"/> washed(25) <input type="checkbox"/> thread damaged(25)		
26	Seat Frame <input type="checkbox"/> thread damaged(26) <input type="checkbox"/> erosion(26)		
27	Body <input type="checkbox"/> corr.(27) <input type="checkbox"/> erosion(27) <input type="checkbox"/> thread damaged(27)		
28	Gaskets		
29	Machine Body RF's		
30	Lap Nozzle to Base		
31	Sub Contractor		

SEVERITY OF INTERNALS CONDITION (1) MILD (2) SUBSTANTIAL (3) SEVERE

MATERIAL:

ITEM	DESCRIPTION	QTY	PCI P.O.#
32		1	
33			
34			
35			
36		1	
37			
38	Cap Assembly		
39	Lift Lever		
40	Adjusting Screw / Nut		
41	Bonnet		
42	Spring / Number		
43	Spring Buttons		
44	Spindle / Stem		
45	Stem Retainer		
46	Guide		
47	Bellows		
48	Ring Pin		
49	Blowdown Ring		
50	Disc Holder		
51	Disc		
52	Nozzle		
53	Ball Keeper	1	S
54	Keeper Seal		
55	Ball		
56	Ball / Seat Assembly	1	17637
57	Seat Frame	1	S
58	Body		
59	Gasket Set	1	S
60	Reset Tag (SPM 3.3, 3.4)		
61	Shop Supplies	1	
62	Hazardous Waste Disposal	1	

Additional: Cleaning Lapping Nozzle Lapping Disc Pipe Fitting for Reassembly & Test Recommended Replacements

IM&T Equipment (REF. SPM 05) _____ Linial# 3215 Pressure# 3019/20 Test Bench# 3307

Min. Man. Specified Dimensions	Dimensions As Found	Action Taken
Disc Ht. _____ Step _____	Disc Ht. _____ Step _____	<input type="checkbox"/> Accept <input type="checkbox"/> Machine
Nozzle Ht. _____ Step _____	Nozzle Ht. _____ Step _____	<input type="checkbox"/> Customer Review

Set Pressure Definition:	Capacity:	Ring Setting:	Upper:	Lower:
Set Pressure Change: <input type="radio"/> Yes <input checked="" type="radio"/> No <input type="checkbox"/> New Spring <input type="checkbox"/> Non Code Repair <input type="checkbox"/> Air <input type="checkbox"/> Steam <input type="checkbox"/> H2O <input type="checkbox"/> Air / H2O	Set Pressure: 1650 psig 11377 kpag	Capacity: _____ Lbs./Hr.: _____	Upper: _____	Lower: _____
Back Pressure: _____ psig _____ kpag	Back Pressure: _____ psig _____ kpag	USGPM: _____	Appearance <input checked="" type="checkbox"/> Tagging <input checked="" type="checkbox"/> EDM -	
Cold Diff. Set: _____ psig _____ kpag	Cold Diff. Set: _____ psig _____ kpag	QC018B Item #: _____		
Bellows Test @: _____ psig _____ kpag	Bellows Test @: _____ psig _____ kpag	QC018B Item #: _____		
Back Press. Test: _____ psig _____ kpag	Back Press. Test: _____ psig _____ kpag	QC018B Item #: _____		
Leakage @ 90%: _____ BPM (Ref. API 527)	Leakage @ 90%: _____ BPM (Ref. API 527)	QC018B Item #: _____		
Comments:	Comments:	Comments:	Comments:	Comments:

Lock Nut Secured
 Ring Pin Torqued
 Lift Lever Assy Secured

Date: 00.09.07

Tested By: ML

Witness: BW

Final Inspection: ML

Certificate of Inspection

RECEIVED
OCT 7 1998

BLUE RANGE RESOURCE CORP.
1300, 800 - 5 AVENUE SW
(TRIMAC HOUSE)
CALGARY, AB
T2P 3T6

LOCATION: WELLSITE 4-10-039-26-W4M

COMPANY CODE:

PREFERRED RE-INSP. INTERVAL: 5.00 Yr.

DESCRIPTION: VERTICAL SEPARATOR

CRN: H2710.2

MANUFACTURER: FLO-SKID MANUFACTURING INC

SERIAL #: F-1269

YEAR BUILT: 1988

HEATING SURFACE:

VOLUME: 0.68 M3

Safety Valves

PART	MAX. AUTHORIZED WORKING PRESSURE	MAX. TEMP	MIN. TEMP	VALVE ID	SETTING	CAPACITY	LOCATION
SHE	11375 KPA	38 C		SV1	11375 KPA		

OWNER INSTRUCTIONS/REMARKS:

PRESSURE RELIEF VALVE TO BE SERVICED BY AN AUTHORIZED SAFETY VALVE SERVICING COMPANY EVERY THREE YEARS.

Safety Codes Officer: SIMONS, DENNIS

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 as required by the Act. No repairs or alterations may be made unless authorized by a Safety Codes Officer.

SHAU - TRAV OILFIELD SUPPLY

205 212 7 Ave. S.W. Calgary, Alberta T2P - 0W6

Phone (403) 269 - 2558

Fax (403) 264 - 1561

SUBSIDIARY OF SHAU - TRAV HOLDINGS INC.

ALBERTA BOILER AND PRESSURE VESSEL SAFETY

Elveden Centre
6th Floor, 727 - 7 Avenue S. W.
Calgary, Alberta T2P 0Z5

BOILER AND PRESSURE VESSEL STATUS REPORT

To Post 4-10

TO: The Chief Inspector
Boiler and Pressure Vessel Safety
Alberta Labour

RE: Vessel (A) #247232
Serial No. F-1269
CRN #H 2710.2

[] The above vessel(s) has been sold. Please transfer the registration of the vessels to:
Name of New Owner: BLUE RANGE RESOURCE CORPORATION
Mailing Address: 905-706 - 7TH AVE SW CALG AB T2P 0Z0
Location of Vessel: BLUE RANGE
Date of Sale: MARCH 1, 1994

[] The above vessel(s) is not in service. will advise Alberta Labour when it is returned to service. BLUE RANGE RESOURCE CORP.

[] The above vessel(s) has been disposed of as scrap material. The Alberta Identification (A) Number has been obliterated.

[] The above vessel(s) is now operating outside the Province of Alberta. Please remove from annual registration.

The owner of the boiler or pressure vessel is responsible for ensuring that the above equipment is inspected by Alberta Labour prior to being returned to service in the Province of Alberta.

Signature: Fogor BANACK

Company: SHAU-TRAV OILFIELD SUPPLY

Job Title: President

Accepted by Inspector _____ Date _____

Removed from annual fees by _____ Date _____