



3027808

QR7

INSPECTION AND TEST REPORT - PSV / PRV

Customer: CANADIAN NATURAL RESOURCES Location: NORTH JOFFE CUST PO#: _____
 SO#: 52-11802 47 OF 63 00 CST Tag #: 8DEHY PCID: P7374 Assoc. Doc #:
 Date: 00.09.05

Customer Instructions: REPAIR RUSH Contact: _____
 Requested Completion Date: 00.09.08 A#: 3027808 LSD: _____ Phone: _____

Make: MFERCER Model: 8128621127S S/N: 21424 Shop # _____ CRN#: 0C26065C
 Size: 1.5 In ___ Out 2 ___ Ends: RF RTJ Clamp Screwed FF Cap Assy: Open Closed Lift Lever
 Visual Condition: Good Fair Poor Fouling Dirty Plugged New Sample Taken: Inlet Outlet None
 Seal Condition: Top: ACC ___ Bottom: _____ Insignia: _____ Last Service Date: _____ Data Plate Condition: REPLACE
 Op. Temp.: _____ C Capacity: 11527 SCFM/AIR Code Symbol: V UV HV None Other
 Set Press.: 1440 psig 9929 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"/> pins(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"/> wearing(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

ITEM	DESCRIPTION	QTY	PCl 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	X 1	
45	Stem Retainer	X	
46	Guide		
47	Bellows		
48	Ring Pin		
49	Blowdown Ring		
50	Disc Holder		
51	Disc	X 1	
52	Nozzle	X 1	
53	Ball Keeper		
54	Keeper Seal		
55	Ball		
56	Ball / Seat Assembly		
57	Seat Frame		
58	Body		
59	Gasket Set	X 1	S
60	Reset Tag (SPM 3.3, 3.4)	1	
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# _____ Pressure# 301920 Test Bench# 3307
 Min. Man. Specified Dimensions Dimensions As Found
 Disc Ht. _____ Step _____ Step _____ Action Taken
 Nozzle Ht. _____ Step _____ Step _____

Set Pressure Definition: Air Steam H2O Air / H2O
 Set Pressure Change: Yes No New Spring Non Code Repair QR018B Item #: _____
 Set Pressure: 1440 psig 9929 kpag Capacity: Lbs./Hr.: SCFM/Air: 11527
 Back Pressure: _____ psig _____ kpag USGPM: _____
 Cold Diff. Set: _____ psig _____ kpag Ring Setting: Upper: _____ Lower: _____
 Bellows Test @: _____ psig _____ kpag Ends Covered Appearance Packing Slip
 Back Press. Test: 100 psig 0 BPM (Ref. API 527) Tagging EDM -
 Leakage @ 90%: _____
 Comments: _____
 Date: 00.09.06
 Tested By: ML
 Witness: RW
 Final Inspection: ML

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 # 3027808

Client	Canadian Natural Resources Ltd.		Date of Insp.		March 15, 2000	
Prov. Reg.#	3027808		Location		Joffre Compressor Station	
Equipment	3-Phase Glycol Contactor		LSD		4-10-39-26W4	
Tag/Equip. #			Comp./Unit #		Contactor building (gas to 14-36)	
Vessel Status	In Operation		Job #		00-073	
Fabricator	Alco		Serial #		94C 5260-01	
CRN#	H 6599.12		Shell Mat'l		Shell Thick. 1.500"	
Corr. All.	0.125"		Head Mat'l		Head Thick. 1.490	
Diameter	28"		Length	Height	28's/s	RT I HT Yes
Year Built	1995		Next Insp.		2004	
Service	Sweet		Manway		No	
PSV #.			Coating		No	
Mfg.	Mercer		Serial #		21424	
Type/Model	112862112-S		Capacity		11527 SCFM	
Date of Service	94/12		Next Service		2000	
			Set Pressure		1440 psi	
			Size		1.5x2"	
			Service Co.		MVC	

Report # 4003

Observations:

External Painted. Lifting marks with rust. Bolted to floor.

UT Inspection (Measurements in inches)

Test Point	Nominal	Minimum		
Mid Shell	1.500	1.532	1.526	1.527
Bottom Shell	1.500	1.516	1.524	1.519
Bottom Head	1.490	1.571	1.565	1.575
4" Inlet		(top) 0.350	(east) 0.380	(bottom) 0.376
				(west) 0.366

Recommendations:

Service PSV.

[Signature]

Inspector: Jim Longstreet

Reviewed By: [Signature]

AB-40 to be attached

mt

My

Manufacturer's

Data Report

Certificate of Inspection

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

RECEIVED
OCT 7 1998

LOCATION: 4-10 COMP. STN. 4-10-39-26 W4

COMPANY CODE:

PREFERRED RE-INSP. INTERVAL: 5.00 Yr.

DESCRIPTION: GLYCOL CONTACTOR

CRN: H6599.12

MANUFACTURER: ALCO GAS & OIL

SERIAL #: 94C-5260-01

YEAR BUILT: 1994

HEATING SURFACE: SURFACE AREA:

VOLUME: 3.27 M3

PART	MAX. AUTHORIZED WORKING PRESSURE	MAX. TEMP	MIN. TEMP	VALVE ID	SETTING	CAPACITY	LOCATION
CON	11376 KPA	65 C	-28 C	SV1	11376 KPA		Safety Valves

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.



Certificate of Inspection

BLUE RANGE RESOURCES LTD.
1100, 801 - 6 AVENUE SW

CALGARY AB T2P 3W2

LOCATION: 4-10-39-26 W4

COMPANY CODE:

PREFERRED RE-INSP. INTERVAL: 5.00 YRS

DESCRIPTION: GLYCOL CONTACTOR

CRN: H6599.12

MANUFACTURER: ALGO-GAS-&-OIL-PRODUCTION-EQUIPMENT-LTD:

SERIAL # : 94C-5260-01

YEAR BUILT: 1994

HEATING SURFACE:

m2

CUBICAL CAPACITY:

3.270 m3

PART	MAX. AUTHORIZED PRESSURE	MAX. TEMP / MIN. TEMP	ID/LOCATION	SAFETY VALVES SET/CAPACITY	AT TEMP
CONTACTOR	11376 kPa	65 C / -28 C	SV1	0 kPa	0

CONTACTOR

11376 kPa

65 C

SV1

-28 C TO BE INSTALLED


0 kPa

0

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 THE ADOPTED BOILERS AND PRESSURE VESSELS 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.

INSPECTOR: RAKHRA SATWANT

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 INSPECTOR IMMEDIATELY AND SHALL SEND A FULL REPORT IN WRITING TO THE CHIEF INSPECTOR AS REQUIRED BY THE ACT. NO REPAIRS OR ALTERATIONS MAY BE MADE UNLESS AUTHORIZED BY AN INSPECTOR.