



134927

INSPECTION AND TEST REPORT - PSV / PRV

Customer: CNRL Location: JOFFRE CUST PO#: _____ Date: 00.09.07
 SO#: 52-11812 1 OF 5 Sheet Code 00 CST Tag #: PSV 23 LPG BULLET PCI ID: P7615 ASSOC. Doc #:
 Customer Instructions: REPAIR RUSH Contact: _____
 Requested Completion Date: 00.09.08 A#: 134927 LSD: 14-36-38-27W4 Phone: _____
 Make: REGOMANIFOLD Model: A8554M180 S/N: 7198 Shop # _____ CRN#: _____
 Size: 4 In _____ Out _____ 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: N/A Bottom: _____ Insignia: KM Last Service Date: _____ Data Plate Condition: GOOD
 Op. Temp.: _____ C Capacity: 11200 SCFM/AIR Code Symbol: V UV HV None Other
 Set Press.: 150 psig 1034 kpag Back Press.: _____ psig _____ kpag Cold Diff. Set: _____ psig _____ kpag Adj. Screw Meas. _____
 Set Pressure: _____ psig _____ kpag Leakage BPM @90%: _____ Testing Medium: _____ No Rescat: _____
 Comments: _____ Relieve Press.: _____ psig _____ kpag Reseat Press.: _____ psig _____ kpag

LABOUR: _____
 IDismanite: BW _____ Inspection: BW _____ Reassemble: BW _____
 ITEM DESCRIPTION QTY ITEM DESCRIPTION QTY PCI F.O.#

ITEM	DESCRIPTION	QTY	ITEM	DESCRIPTION	QTY	PCI F.O.#
1	Reconditioner & Test	1	32			
2	Priority Rate		33			
3	Certification Test Only		34			
4	Pre Pop Test		35			
5	Back Pressure Test	1	36			
6	Bellows Test		37			
7	Cap Assembly <input type="checkbox"/> corr.(7) <input type="checkbox"/> erosion(7)		38	Cap Assembly		
8	Repack Lift Lever <input type="checkbox"/> thread damage(8)		39	Lift Lever		
9	Adjusting Screw / Nut <input type="checkbox"/> thread damage(9)		40	Adjusting Screw / Nut		
10	Bonnet <input type="checkbox"/> corr.(10) <input type="checkbox"/> thread damage(10)		41	Bonnet		
11	Spring / Number <input type="checkbox"/> corr.(11) <input type="checkbox"/> coating chipped(11)		42	Spring / Number		
12	Spring Buttons <input type="checkbox"/> pitted(12) <input type="checkbox"/> corr.(12)		43	Spring Buttons		
13	Spindle / Stem <input type="checkbox"/> galling(13) <input type="checkbox"/> pitting(13) <input type="checkbox"/> corr.(13) <input type="checkbox"/> bent(13)	1	44	Spindle / Stem		
14	Stem Retainer <input type="checkbox"/> galling(14) <input type="checkbox"/> corr.(14) <input type="checkbox"/> thread damage(14)		45	Stem-Retainer		
15	Guide <input type="checkbox"/> galling(15) <input type="checkbox"/> wearing(15) <input type="checkbox"/> corr.(15)		46	Guide		
16	Bellows <input type="checkbox"/> distortion(16) <input type="checkbox"/> punctured(16) <input type="checkbox"/> ruptured(16)		47	Bellows		
17	Ring Pin <input type="checkbox"/> pin bent(17) <input type="checkbox"/> thread damage(17)		48	Ring Pin		
18	Blowdown Ring(s) <input type="checkbox"/> erosion(18) <input type="checkbox"/> thread damage(18)		49	Blowdown Ring		
19	Disc Holder <input type="checkbox"/> erosion(19) <input type="checkbox"/> pitting(19) <input type="checkbox"/> drop thread damage(19)		50	Disc Holder		
20	Disc <input type="checkbox"/> scratching(20) <input type="checkbox"/> pitting(20) <input type="checkbox"/> fouling(20) <input type="checkbox"/> erosion(20)	1	51	Disc		
21	Nozzle <input type="checkbox"/> scratching(21) <input type="checkbox"/> pitting(21) <input type="checkbox"/> fouling(21) <input type="checkbox"/> erosion(21)	1	52	Nozzle		
22	Ball Keeper <input type="checkbox"/> pitting(22) <input type="checkbox"/> washed(22)		53	Ball Keeper		
23	Keeper Seal <input type="checkbox"/> worn(23) <input type="checkbox"/> brittle(23)		54	Keeper Seal		
24	Ball <input type="checkbox"/> pitted(24) <input type="checkbox"/> scratched(24) <input type="checkbox"/> washed(24)		55	Ball		
25	Ball / Seat Assembly <input type="checkbox"/> washed(25) <input type="checkbox"/> thread damaged(25)		56	Ball / Seat-Assembly		
26	Seat Frame <input type="checkbox"/> thread damage(26) <input type="checkbox"/> erosion(26)		57	Seat Frame		
27	Body <input type="checkbox"/> corr.(27) <input type="checkbox"/> erosion(27) <input type="checkbox"/> thread damaged(27)		58	Body		
28	Gaskets		59	Gasket Set		
29	Machine Body RF's		60	Reset Tag (SPM 3.3 ; 3.4)		
30	Lap Nozzle to Base		61	Shop Supplies	1	S
31	Sub Contractor		62	Hazardous Waste Disposal	1	S

SEVERITY OF INTERNALS CONDITION: (1) MILD (2) SUBSTANTIAL (3) SEVERE
 Additional: Cleaning Lapping Nozzle Lapping Disc Pipe Fitting for Reassembly & Test
 THIS VALVE LACKS THE PROPER SYMBOL-STAMP AND SHOULD NOT BE INSTALLED IN SERVICE

IM&T Equipment (REF. SPM 05) Lintial# _____ Pressure# _____ Test Bench# _____
 Min. Man. Specified Dimensions Disc Ht. _____ Step _____ Nozzle Ht. _____ Step _____
 Dimensions As Found Disc Ht. _____ Step _____ Nozzle Ht. _____ Step _____
 Action Taken Accept Customer Review Machine

TEST DATA
 Set Pressure-Definition: Air Steam H2O Air/H2O
 Set Pressure Change: Yes No New Spring Non Code Repair QR018B Item #: _____
 Set Pressure: 150 psig 1034 kpag Capacity: _____ Lbs./Hr.: _____ SCFM/Air: 11200
 Back Pressure: _____ psig _____ kpag USGPM: _____
 Cold Diff. Set: _____ psig _____ kpag Ring Setting: Upper: _____ Lower: _____
 Bellows Test @: _____ psig _____ kpag Back Press. Test: 135 psig 931 kpag (Ref. API 527)
 Leakage @ 90%: _____ BPM (Ref. API 527)
 Comments: B.P.-TEST ONLY
 Date: 00.09.07 Tested By: ML Witness: BW Final Inspection: ML
 Lock Nut Secured Ring Pin Torqued Lift Lever Assy Secured

INSPECTION AND TEST REPORT - PSV / PRV

Customer: **CNRL** Location: **JOFFRE** CUST PO#: _____ Date: **00.09.07**

SO#: **52-11812** 2 OF 5 **00** CST Tag #: **#1** PCI ID: **P7616** Assoc. Doc #: _____

Customer Instructions: **REPAIR/RUSH** Contact: _____

Requested Completion Date: **00.09.08** A#: **134927** LSD: **14-36-38-27W4** Phone: _____

Make: **REGO** Model: **A3149MI80** S/N: _____ Shop #: _____ CRN#: _____

Size: **3** In ___ Out ___ 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: **N/A** Bottom: _____ Insignia: _____ Last Service Date: _____ Data Plate Condition: **GOOD**

Op. Temp.: _____ C Capacity: _____ Code Symbol: V UV HV None Other

Set Press.: **150** psig **1034** kpag Back Press.: _____ psig _____ kpag Cold Diff. Set: _____ psig _____ kpag Adj. Screw Meas. _____

Set Pressure: _____ psig _____ kpag Leakage BPM @90%: _____ psig _____ kpag Reseat Press.: _____ psig _____ kpag

Comments: _____ Relieve Press.: _____ psig _____ kpag Testing Medium: _____ No Reseat: _____

LABOUR:

Disassemble: BH	Inspection: BH	Reassemble: BH
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"/> corr.(11) <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"/> 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 N.P.E.		
30 Lap Nozzle to Base		
31 Sub Contractor		

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

MATERIAL:

ITEM	DESCRIPTION	QTY	P.C.T.P.O. #
32		1	
33			
34			
35			
36			
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	1	S
52	Nozzle	1	
53	Ball Keeper		
54	Keeper Seal		
55	Ball		
56	Ball / Seat Assembly		
57	Seat Frame		
58	Body		
59	Gasket Set		
60	Reset Tag (SPM 3.3 ; 3.4)		
61	Shop Supplies	1	S
62	Hazardous Waste Disposal	1	S

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

THIS WAVE LOCK STAMP AND SHOULD NOT BE INSTALLED IN A V-UV-HV-APPLICATION

IM&T Equipment (REF. SPM 05) _____ Linital# **3204** Pressure# **3013/14** Test Bench# **3308**

Min. Man. Specified Dimensions _____ Dimensions As Found _____ Action Taken _____

Disc Ht. _____ Step _____ Nozzle Ht. _____ Step _____

Disc Ht. _____ Step _____ Nozzle Ht. _____ Step _____

Set Pressure Definition: Air Steam H2O Air / H2O

Set Pressure Change: Yes No New Spring Non Code Repair QR018B Item #:

Set Pressure: **150** psig **1034** kpag Capacity: _____ Lbs./Hr.: _____

Back Pressure: _____ psig _____ kpag SCFM/Air: _____

Cold Diff. Set: _____ psig _____ kpag USGPM: _____

Bellows Test @: _____ psig _____ kpag Ring Setting: Upper: _____ Lower: _____

Back Press. Test: _____ psig _____ kpag Ends Covered Appearance Packing Slip

Leakage @ 90%: **0**BPM (Ref. API 527) Tagging EDM-

Comments: _____

Set Pressure Definition: Lock Nut Secured Ring Pin Torqued Lift Lever Assy Secured

Date: **00.09.07** Tested By: **ML** Witness: **BW** Final Inspection: **ML**

QR7 INSPECTION AND TEST REPORT - PSV / PRV

Revision: 9.8.10

Customer: CNRL Location: JOFFRE CUST PO#: Date: 00.09.07

SO#: 52-11812 3 OF 5 SHIP CODE 00 CST Tag #: #2 PCI ID: P7617 ASSOC. Doc #:

Customer Instructions: REPAIR RUSH Model: A3149MI80 S/N: Shop # CRN#:

Requested Completion Date: 00.09.08 A#: 134927 LSD: 14-36-38-27W4 Phone: Contact:

Make: REGO Size: 3 In ___ 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: N/A Bottom: ___ Insignia: ___ Last Service Date: ___ Data Plate Condition: GOOD
 Op. Temp.: ___ C Capacity: ___ Code Symbol: V UV HV None Other
 Set Press.: 150 psig 1034 kpag Back Press.: ___ psig ___ kpag Cold Diff. Set: ___ psig ___ kpag Adj. Screw Meas. 1.804
 Set Pressure: ___ psig ___ kpag Leakage BPM @90%: ___ Testing Medium: ___ No Reset: ___

Comments: ___ Relieve Press.: ___ psig ___ kpag Reseat Press.: ___ psig ___ kpag
 PRE TEST

LABOUR:		Dismantle: ML		Inspection: ML		Reassembly: ML	
ITEM	DESCRIPTION	QTY	REWORK	REFACE	REFLECT	QTY	DESCRIPTION
1	Recondition & Test	1					
2	Priority Rate						
3	Certification Test Only						
4	Pre Pop Test						
5	Back Pressure Test						
6	Bellows Test						
7	Cap Assembly						
8	Repack Lift Lever						
9	Adjusting Screw / Nut						
10	Bonnet						
11	Spring / Number						
12	Spring Buttons						
13	Spindle / Stem						
14	Stem Retainer						
15	Guide						
16	Bellows						
17	Ring Pin						
18	Blowdown Ring(s)						
19	Disc Holder						
20	Disc						
21	Nozzle						
22	Ball Keeper						
23	Keeper Seal						
24	Ball						
25	Ball / Seat Assembly						
26	Seat Frame						
27	Body						
28	Gaskets						
29	Machining Body RF's						
30	Lap Nozzle to Base						
31	Sub Contractor						

Additional: Cleaning Lapping Nozzle Lapping Disc Pipe Fitting for Reassembly & Test
 THIS VALVE LACKS THE PROPER SYMBOL STAMP AND SHOULD NOT BE INSTALLED IN SERVICE

IM&T Equipment (REF. SPM 05) Initial# 3204 Pressure# 3013/14 Test Bench# 3304
 Min. Man. Specified Dimensions Dimensions As Found Action Taken
 Disc Ht. ___ Step ___ Step ___
 Nozzle Ht. ___ Step ___ Step ___

Set Pressure Definition: Yes No New Spring Non Code Repair Air Steam H2O Air / H2O
 Set Pressure Change: 150 psig 1034 kpag
 Set Pressure: ___ psig ___ kpag Capacity: ___ Lbs./Hr.: SCFM/Air: ___
 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: ___ psig ___ kpag (Ref. API 527) Painting Tagging EDM-
 Leakage @ 90%: 0 BPM
 Comments: ___
 Date: 00.09.07 Tested By: ML Witness: BW Final Inspection: ML

QR7 INSPECTION AND TEST REPORT - PSV / PRV

Revision: 9-830

Customer: CNRL Location: JOFFRE Shop # _____ CRN#: _____
 SO#: 52-11812 4 OF 5 00 CST Tag #: #3 PC1 ID: P7618 Doc #: _____
 Date: 00.09.07

Customer Instructions: REPAIR RUSH Contact: _____
 Requested Completion Date: 00.09.08 A#: 134927 LSD: 14-36-38-27W4 Phone: _____

Make: PROQUIP Model: A3149MI80 S/N: _____
 Size: 3 In _____ Orf. _____ Out _____ Ends: RF RTU 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: N/A Bottom: _____ Insignia: _____ Last Service Date: _____ Data Plate Condition: GOOD
 Op.Temp.: _____ C Capacity: _____ Code Symbol: V UV HV None Other
 Set Press.: 150 psig 1034 kpag Back Press.: _____ psig _____ kpag Cold Diff. Set: _____ psig _____ kpag Adj. Screw Meas. 1.801

Set Pressure: _____ psig _____ kpag Testing Medium: _____ No Reset: _____
 Comments: _____ Relieve Press.: _____ psig _____ kpag Reseat Press.: _____ psig _____ kpag

ITEM	DESCRIPTION	REASSEMBLE	DS	DISMANTLE	DS	SEVERITY	ACCEPTABLE	RECT	MACHINE	LAY POLISH	REPLACE	NETWORK	QTY	ITEM	DESCRIPTION	QTY	PC1 P.O.#
1	Recondition & Test												1	32			
2	Priority Rate													33			
3	Certification Test Only													34			
4	Pre Pop Test													35			
5	Back Pressure Test													36			
6	Bellows Test													37			
7	Cap Assembly	<input type="checkbox"/> corr.(7) <input type="checkbox"/> erosion(7)												38	Cap Assembly		
8	Repack Lift Lever	<input type="checkbox"/> thread damage(8)												39	Lift Lever		
9	Adjusting Screw / Nut	<input type="checkbox"/> corr.(10) <input type="checkbox"/> thread damage(10)						X						40	Adjusting Screw / Nut		
10	Bonnet	<input type="checkbox"/> corr.(11) <input type="checkbox"/> coating chipped(11)						X						41	Bonnet		
11	Spring / Number	<input type="checkbox"/> pitted(12) <input type="checkbox"/> corr.(12)						X						42	Spring / Number		
12	Spring Buttons	<input type="checkbox"/> pitting(13) <input type="checkbox"/> corr.(13) <input type="checkbox"/> bent(13)						X						43	Spring Buttons		
13	Spindle / Stem	<input type="checkbox"/> galling(14) <input type="checkbox"/> corr.(14) <input type="checkbox"/> thread damage(14)						X						44	Spindle / Stem		
14	Stem Retainer	<input type="checkbox"/> galling(15) <input type="checkbox"/> wearing(15) <input type="checkbox"/> corr.(15)						X						45	Stem Retainer		
15	Guide	<input type="checkbox"/> distortion(16) <input type="checkbox"/> punctured(16) <input type="checkbox"/> ruptured(16)						X						46	Guide		
16	Bellows	<input type="checkbox"/> pin bent(17) <input type="checkbox"/> thread damage(17)												47	Bellows		
17	Ring Pin	<input type="checkbox"/> erosion(18) <input type="checkbox"/> thread damage(18)												48	Ring Pin		
18	Blowdown Ring(s)	<input type="checkbox"/> pitting(19) <input type="checkbox"/> drop thread damage(19)												49	Blowdown Ring		
19	Disc Holder	<input type="checkbox"/> scratching(20) <input type="checkbox"/> fouling(20) <input type="checkbox"/> erosion(20)												50	Disc Holder		
20	Disc	<input type="checkbox"/> pitting(21) <input type="checkbox"/> fouling(21) <input type="checkbox"/> erosion(21)						X						51	Disc	1	S
21	Nozzle	<input type="checkbox"/> pitting(22) <input type="checkbox"/> washed(22)						X						52	Nozzle	1	S
22	Ball Keeper	<input type="checkbox"/> worn(23) <input type="checkbox"/> brittle(23)												53	Ball Keeper		
23	Keeper Seal	<input type="checkbox"/> pitted(24) <input type="checkbox"/> scratched(24) <input type="checkbox"/> washed(24)												54	Keeper Seal		
24	Ball	<input type="checkbox"/> thread damage(25)												55	Ball		
25	Ball / Seat Assembly	<input type="checkbox"/> thread damage(26) <input type="checkbox"/> erosion(26)												56	Ball / Seat Assembly		
26	Seat Frame	<input type="checkbox"/> corr.(27) <input type="checkbox"/> erosion(27) <input type="checkbox"/> thread damaged(27)						X						57	Seat Frame		
27	Body													58	Body		
28	Gaskets													59	Gasket Set		
29	Machine Body RF's													60	Res: Tag (SPM 3.3 : 3.4)	1	S
30	Lap Nozzle to Base													61	Shop Supplies	1	S
31	Sub Contractor													62	Hazardous Waste Disposal	1	S

Additional: Cleaning Lapping Nozzle Lapping Disc Pipe Fitting for Reassembly & Test Recommended Replacements
 THIS VALVE LACKS THE PROPER SYMBOL-STAMP AND SHOULD NOT BE INSTALLED IN A V-V-W APPLICATION

IM&T Equipment (REF. SPM 05) _____ Linial# 3204 Pressure# 3013/14 Test Bench# 3308
 Min. Man. Specified Dimensions Dimensions As Found Action Taken
 Disc Ht. _____ Step _____ Step _____
 Nozzle Ht. _____ Step _____ Step _____

Set Pressure Definition: Yes No New Spring H2O Air H2O Lock Nut Secured
 Set Pressure Change: 150 psig _____ psig _____ kpag Capacity: _____ Lbs./Hr.: _____
 Back Pressure: _____ psig _____ kpag USGPM: _____
 Cold Diff. Set: _____ psig _____ kpag Ring Setting: Upper: _____ Lower: _____
 Bellows Test @: _____ psig _____ kpag Appearance Packing Slip
 Back Press. Test: _____ psig _____ kpag (Ref. API 527) Tagging EDM-
 Leakage @ 90%: _____ 0BPM (Ref. API 527) Final Inspection: ML
 Comments: _____ Date: 00.09.07
 Tested By: ML
 Witness: BW

INSPECTION AND TEST REPORT - PSV / PRV

Revision: 9.830

Customer: CNRL Location: JOFFRE CUST PO#: Date: 00.09.07

SO#: 52-11812 5 OF 5 00 CST Tag #: #4 PCI ID: P7619 Assoc. Doc #: _____

Customer Instructions: REPAIR RUSH Requested Completion Date: 00.09.08 A#: 134977 LSD: 14-36-38-27W4 Shop #: _____ CRN#: _____ Contact: _____ Phone: _____

Make: REGO Model: A3149MI80 S/N: _____
 Size: 3 In _____ Orf. _____ Out _____ 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: N/A Bottom: _____ Insignia: _____ Last Service Date: _____ Data Plate Condition: GOOD
 Op.Temp.: _____ C Capacity: _____ Code Symbol: V UV HV None Other
 Set Press.: 150 psig 1034 kpag Back Press.: _____ psig _____ kpag Cold Diff. Set: _____ psig _____ kpag Adj. Screw Meas. 1.947

Set Pressure: _____ psig _____ kpag Leakage BPM @90%: _____ Testing Medium: _____ No Reset: _____
 Comments: _____ Relieve Press.: _____ psig _____ kpag Reset Press.: _____ psig _____ kpag

ITEM	DESCRIPTION	SEVERITY	ACCEPTABLE	REFLECT	MACHINE	LAP FINISH	REFACE	REWORK	QTY	ITEM	DESCRIPTION	QTY	PCI P.O.#
1	Recondition & Test								1	32			
2	Priority Rate									33			
3	Certification Test Only									34			
4	Pre Pop Test									35			
5	Back Pressure Test									36			
6	Bellows Test									37			
7	Cap Assembly <input type="checkbox"/> corr.(7) <input type="checkbox"/> erosion(7)									38	Cap Assembly		
8	Repack Lift Lever <input type="checkbox"/> thread damage(8)									39	Lift Lever		
9	Adjusting Screw / Nut <input type="checkbox"/> thread damage(9)			X						40	Adjusting Screw / Nut		
10	Bonnet <input type="checkbox"/> corr.(10) <input type="checkbox"/> thread damage(10)			X						41	Bonnet		
11	Spring / Number <input type="checkbox"/> corr.(11) <input type="checkbox"/> coating chipped(11)			X						42	Spring / Number		
12	Spring Buttons <input type="checkbox"/> pitted(12) <input type="checkbox"/> corr.(12)									43	Spring Buttons		
13	Spindle / Stem <input type="checkbox"/> galling(13) <input type="checkbox"/> pitting(13) <input type="checkbox"/> corr.(13) <input type="checkbox"/> bent(13)									44	Spindle / Stem		
14	Stem Retainer <input type="checkbox"/> galling(14) <input type="checkbox"/> corr.(14) <input type="checkbox"/> thread damage(14)									45	Stem Retainer		
15	Guide <input type="checkbox"/> galling(15) <input type="checkbox"/> wear(15) <input type="checkbox"/> corr.(15)			X						46	Guide		
16	Bellows <input type="checkbox"/> distortion(16) <input type="checkbox"/> punctured(16) <input type="checkbox"/> ruptured(16)			X						47	Bellows		
17	Ring Pin <input type="checkbox"/> pin bent(17) <input type="checkbox"/> thread damage(17)									48	Ring Pin		
18	Blowdown Ring(s) <input type="checkbox"/> erosion(18) <input type="checkbox"/> thread damage(18)									49	Blowdown Ring		
19	Disc Holder <input type="checkbox"/> erosion(19) <input type="checkbox"/> pitting(19) <input type="checkbox"/> drop thread damage(19)									50	Disc Holder		
20	Disc <input type="checkbox"/> scratching(20) <input type="checkbox"/> pitting(20) <input type="checkbox"/> fouling(20) <input type="checkbox"/> erosion(20)			X				X	1	51	Disc		S
21	Nozzle <input type="checkbox"/> scratching(21) <input type="checkbox"/> pitting(21) <input type="checkbox"/> fouling(21) <input type="checkbox"/> erosion(21)			X				X	1	52	Nozzle		S
22	Ball Keeper <input type="checkbox"/> pitting(22) <input type="checkbox"/> washed(22)									53	Ball Keeper		
23	Keeper Seal <input type="checkbox"/> worn(23) <input type="checkbox"/> brittle(23)									54	Keeper Seal		
24	Ball <input type="checkbox"/> pitted(24) <input type="checkbox"/> scratched(24) <input type="checkbox"/> washed(24)									55	Ball		
25	Ball / Seat Assembly <input type="checkbox"/> washed(25) <input type="checkbox"/> thread damage(25)									56	Ball / Seat Assembly		
26	Seat Frame <input type="checkbox"/> thread damage(26) <input type="checkbox"/> erosion(26)			X						57	Seat Frame		
27	Body <input type="checkbox"/> corr.(27) <input type="checkbox"/> erosion(27) <input type="checkbox"/> thread damage(27)									58	Body		
28	Gaskets									59	Gasket Set		
29	Machine Body NPS									60	Reset Tag (SPM 3.3; 3.4)		
30	Lap Nozzle to Base									61	Shop Supplies	1	S
31	Sub Contractor									62	Hazardous Waste Disposal	1	S

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

IM&T Equipment (REF. SPM 05) _____ A. V. UV. HV. APPLICATION _____ Linal# 3215 _____ Pressure# 3013/14 _____ Test Bench# 3308
 Min. Man. Specified Dimensions _____ Dimensions As Found _____ Action Taken _____
 Disc Ht. _____ Step _____ Nozzle Ht. _____ Step _____
 Disc Ht. _____ Step _____ Nozzle Ht. _____ Step _____

TEST DATA
 Set Pressure Definition: _____
 Set Pressure Change: Yes No New Spring Non Code Repair Air Steam H2O Air / H2O
 Set Pressure: 150 psig 1034 kpag Capacity: _____ Lbs./Hr.: _____
 Back Pressure: _____ psig _____ kpag SCFM/Air: _____
 Cold Diff. Set: _____ psig _____ kpag USGPM: _____
 Bellows Test @: _____ psig _____ kpag Ring Setting: Upper: _____ Lower: _____
 Back Press. Test: _____ psig _____ kpag
 Leakage @ 90%: 0BPM (Ref. API 527) Ends Covered Appearance Packing Slip
 Comments: _____ Painting Tagging
 Date: 00.09.07 Tested By: ML Witness: BW Final Inspection: ML



CERTIFICATE OF INSPECTION

THE BOILERS & PRESSURE VESSELS ACT 1975
General Safety Services Division
Boilers Branch

Vessel No. (A)	1	3	4	9	2	7
Vessel No.	AL					
Vessel No.	AA					
Date of Inspection	1	9	0	8	7	7
	Day	Month	Year			

NAME & ADDRESS OF OWNER CHEVRON STANDARD OIL LTD., 400 - 5 AVE. S.W., CALGARY, ALBERTA.

LOCATION OF VESSEL JOFFRE GAS PLANT, RED DEER, ALBERTA.

COMPANY CODE V-6-230

DESCRIPTION OF VESSEL L.P.G. STORAGE TANK YEAR BUILT 1977 C.R.N. C-7654.2

HYDROSTATIC TEST PRESSURE 225 P.S.I. HEATING SURFACE 120 SQ. FT. CUBICAL CAPACITY 4500 CU.FT.

MAXIMUM PRESSURE AUTHORIZED 150 POUNDS PER SQUARE INCH AT 120 "FON SHELL SAFETY VALVE T.B.I.

INSTRUCTIONS TO OWNER: TO BE INSTALLED ACCORDING TO REGULATIONS

MFR'S NAME C.E. NATCO LTD. SERIAL NUMBER LM-1367 INSPECTOR'S NAME C. HENDRY/kd INSPECTOR'S SIGNATURE

NOTE: REQUIREMENTS OF THE BOILERS AND PRESSURE VESSELS ACT 1975 AND THE REGULATIONS ISSUED THEREUNDER: The owner or person in charge shall report all accidents involving a boiler, pressure vessel or personnel to the District Inspector immediately and shall also 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.

Plate mfg's initials, spec. No. and tensile strength (Stelco. SA 285 etc.) T.S.
 Maximum working pressure (for S and W if both) Max. W.P. p.s.i. Temp. °F.
 Effective heating surface and year built (1967 etc.) H.S. Sq. Ft. 19
 Initials of authorized shop inspector
 PRESSURE VESSEL -
 Canadian Registration number C.R.N. C-7654.2
 National Board number. (if manufactured in U.S.A.) Nat. Bd.
 Manufacturer and manufacturer's serial number CE NATCO LIMITED Sr. No. IM-1367
 Plate mfg's initials, spec. No. and tensile strength (Stelco. SA 285 etc.) A-516 T.S. 70,000
 Maximum working pressure and temperature Max. W.P. 150 p.s.i. Temp. 120 °F.
 Thickness of shell and heads T.Shell 0.750" T.Heads 0.750"

Code paragraph number and year built (1967 etc.) 1974 U.W. 12-1-A 19-74
 Initials of Authorized Shop Inspector CFI

11. I HEREBY DECLARE that the foregoing statements, having reference to boiler or pressure Vessel bearing manufacturer's Serial No. IM-1367 built by CE NATCO LIMITED, 1100-A 58TH AVE. S.E., of CALGARY, ALBERTA and completed on the 19 day of August 19 77

are in all respects correct and true, and that the said boiler or pressure Vessel has been built in accordance with Provincial registered design No. C-7654.2

the Act governing the construction of boilers and pressure vessels.

Sworn before me at CALGARY Signed *J. J. [Signature]* Shop Foreman.
 in the Province (or State) of ALBERTA
 this 19 day of August 19 77 For CE NATCO LIMITED, 1100-A 58TH AVE S.E.,
 A Commissioner for Oaths, J.P. or N.P.
 My commission expires FEBRUARY 20, 1979 CALGARY, ALBERTA Firm Name and Address.

12.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, a duly authorized Inspector of Boilers and Pressure Vessels employed by GOVERNMENT of ALBERTA

do hereby certify that the foregoing statements are correct and that the material, construction and workmanship are in accordance with the A.S.M.E. Code.

Date August 19/77 Signed *C. Hendry* Provincial or National Board Inspector. No.



DIV. 1
RT-1
CRN.

C - 7654.2

C.E. NATCO LTD.
CALGARY, ALBERTA, CANADA

SERIAL NO. LM-1367

MATERIAL A-516 T.S. 70,000

MAX. PRESS. 150 PSI. AT 120 °F.

SHELL TK. 0.750" HEAD TK. 0.750"

C.A. 0.0625" T.P. 225 PSI

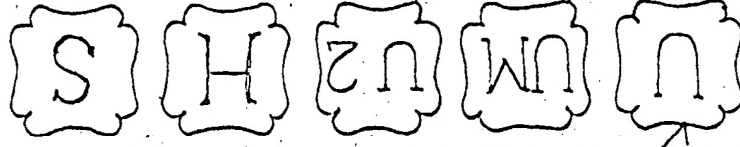
1974 ASME CODE U.W. 12-1-A

DATE 7-1977

SHOP ORDER NO. 8641

REQ'D. W.O. _____
VESSEL 6.75' G. STORAGE TANK
SIZE 12'0" x 40'0" s/s

UNION STEEL LIMITED

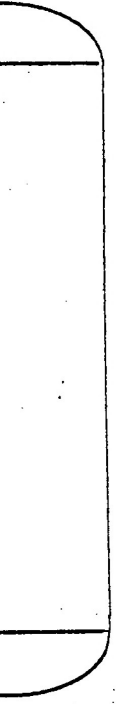
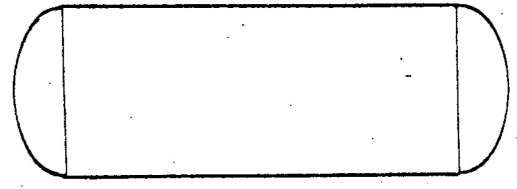


GENCON ENGINEERING LTD. 6100-70 AVENUE E. CALGARY.
 HEURON STANDARD LTD. 400-5 AVE SW. CALGARY.
 JOERE Gas Plant - Red Deer, ALTA T.I. - AMBIENT.

SHOP ORDER 8641
 CRN. NO. C-7654.2
 DRWG. NO. 6A-848
 SERIAL NO. L.M-12
 SHELL TK. 0.750"
 HEAD TK. 0.750"
 TYPE OF VESSEL K.P.G. STORAGE TANK
 SIZE 126" dia x 40' 8" h / S.C.A. 0.0625" X-RAY
 T.P. 225 P.S.I. W.P. 150 P.S.I. @ 120
 HEAT TREATMENT: YES
 CU. FT. CAP.

Shells	Heat Number	Slab	ASTM
	H 5547	21009	A-516-70
	H 5409	21007	A-516-70
	313220	922	A-516-70
	313220	925	A-516-70
Heads	PX 9828326	36945	A-516-70
	PX 9828326	36945	A-516-70

Symbol	Date of Test	Code	Inspector
3	Nov 1976		A.L. WILLSON
21	Aug 1976		A.L. WILLSON
8	Dec 1975		E. WILBERG
2	July 1977		A.L. WILLSON





DIV. 1
RT-1
CRN.

C-7654.2

C.E. NATCO LTD.
CALGARY, ALBERTA, CANADA

SERIAL NO. LM-1367

MATERIAL A-516 T.S. 70,000

MAX. PRESS. 150 PSI. AT 120 °F.

SHELL TK. 0.750" HEAD TK. 0.750"

C.A. 0.0625" T.P. 225 PSI

1974 ASME CODE U.W. 12-1-A

DATE 7-1977

SHOP ORDER NO. 8641

REQ'D. W.O. _____
VESSEL King Storage Tank
SIZE 12'0" x 40'0" s/s

UNION LIMITED

UUMU2HIS

DIV. 1
W. R.T. 1.

GENCON ENGINEERING LTD. 6100-70 AVENUE E. CALGARY.

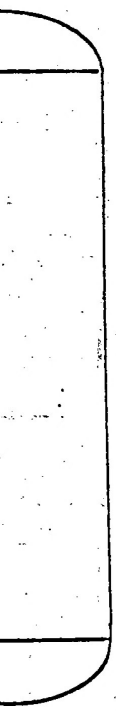
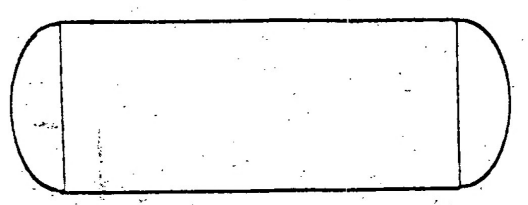
NEURON STANDARD LTD. 400-5 AVE S.W. CALGARY.

ALLIATION: LOEBRE GAS PLANT - Red Deer, ALTA T.T. - AMBIENT.

CRN. NO. C-7654.2
 SHELL TK. 0.750"
 TYPE OF VESSEL K.P.G. STORAGE TANK
 SIZE 12" x 40' 8" S.C.A. 0.0625" X-RAY
 I.P. 225 P.S.I. W.P. 150 P.S.I. @ 120
 HEAT TREATMENT: YES
 CU. FT. CAP.

Shell's	Heat Number	Slab	ASTM
	H 5547	21009	A-516-70
	H 5409	21007	A-516-70
	313220	922	A-516-70
	313220	925	A-516-70
Heads	PX 9828326	36945	A-516-70
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21	Aug 1976		A.L. WILSON
8	Dec 1975		F. WILBERG
2	July 1977		A.L. WILSON



Certificate of Inspection

RECEIVED
OCT 7 1998

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

LOCATION: JOFFRE GAS PLANT 14-36-038-27-W4M

COMPANY CODE:

PREFERRED RE-INSPECTION INTERVAL: 5.00 Yr.

DESCRIPTION: L P G STORAGE TANK

CRN: C7654.2

MANUFACTURER: ACCOUNT NOT ENTERED

SERIAL #: 0134927

YEAR BUILT: 1977

SURFACE AREA:

VOLUME: 127.43 M3

HEATING SURFACE:

Safety Valves

PART	MAX. AUTHORIZED WORKING PRESSURE	MAX. TEMP	MIN. TEMP	VALVE ID	SETTING	CAPACITY	LOCATION
SHE	1034 KPA	49 C		SV1	1034 KPA		SHELL

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.

(A) 134 927



ROTH RADIOLOGY & INSPECTION SERVICES LTD.
4628 Street, Red Deer, AB T4N 6T3
Ph: (403) 347-8666 Fax: (403) 342-1205
Grande Prairie (403) 539-7776 Taber (403) 223-1244
1-800-672-6092

NONDESTRUCTIVE TESTING REPORT

Page 1 of 1 Date June 18, 1986

Customer: Blair Ross Customer Job No.: 46-Jolic TR.
Location: ROTH 15158-47-641M ROTH Job No.: J-17895B

Type of Inspection: Magnetic Particle Liquid Penetrant ROTH Procedure No.: MT-2A

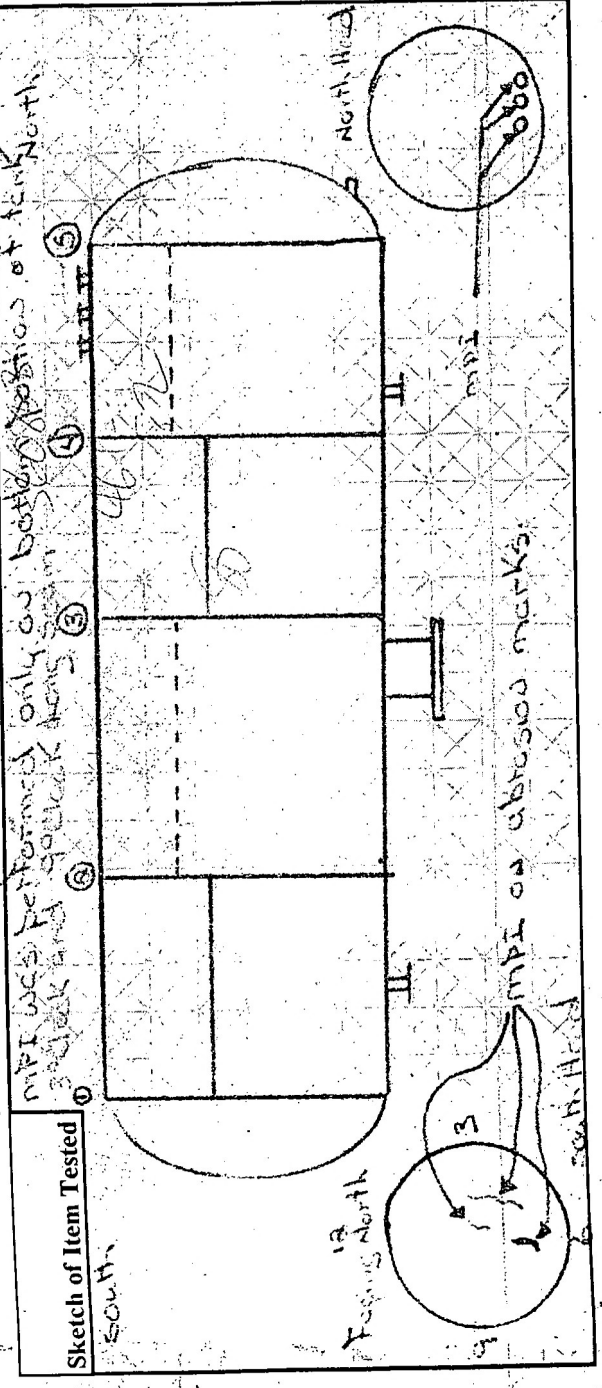
Acceptance Standard or Code: Sec VIII, BWT
Magnetic Method: Yoke Coil Bench AC DC Continuous Residual Dry Wet Fluorescent

Penetrant Method: Water-Washable Solvent Removable Post-Emulsify Visible Fluorescent
Equipment (Make, Model, S/N): Parker-B-300-SD #178 Last Cal. Date (d/m/y): 17/06/86

Blacklight (Make, Model, S/N): Spectrolux CC-190A #5 Last Cal. Date (d/m/y): 17/06/86
Manufacturer: N/A Penetrant: N/A Solvent: N/A

Developer: N/A
Color: Red Black Grey Yellow White Background

Item Tested: Propane storage tank



Test Results: #1 Circled crack like indications. The indications were ground out and re-inspected @ 7 o'clock

No significant surface defects found

Client Representative (Sign): [Signature] TOTAL HOURS 7
 Client Representative (Print): GLEN LEE SUB 7
 Technician (Sign): [Signature] ST 7
 Assistant (Print): Tom R. OT 80
 Km 80

Stamp
ROTH
 LLOYD MCCALLUM #3403
 CGSB-RT II/MT II/PT II
 ASNT-RT II/MT II/PT II

KINGS VALVE DATA SHEET

Description : LPG BULLET
 CONTACT PERSON : BLUE RANGE RES
 Unit/Vessel : A134927
 Tag # : PSV-23
 Status : Active
 Sizing Basis : Blocked Flow
 Mfg : REGO MULTI PURI MANI
 Soft Seat Mat : TEFLON
 Cap / Bonnet : Open / Open
 Purchase Price : 0.00 \$ Cdn
 Inlet Size : 3
 Lift : 0 IN
 Rating : 150#
 Facing : RF
 Block Dv : None

Company Name : BLUE RANGE RES
 LOCATION : 14-36-38-27 W4
 PO # :
 Code Req's : Sec VIII / UV
 Model : 48554M180
 Style : FLG-CONV
 Set Orif Area : IN^2
 Calc Orif Area : IN^2
 Serial # : 7198
 Outlet Size : 2 2/1
 Restrict Lift : 0 IN
 Rating : 150#
 Facing : FM
 Block Dv : None

PROCESS PARAMETERS

Set Press : 150 PSIG
 Oper Temp : 60 F
 ASME Capacity : 21200 SCFM
 Set Change : No
 Service : Compressible

Back Press :
 Cold Diff Set : 150 PSIG
 MAMP : 0 PSIG
 Operating Pres : 0 PSIG
 Product : GAS

CONDITION RECEIVED DATA

Date Rec'd : Jun 21, 1996
 Seal Condition : Intact
 Maintenance For: Sched Overhaul
 Leak Test : 0 BPM
 Reason :

Comp Screw : 0 IN
 Std Repair : Yes
 New Valve Req'd: No
 Prepop : No

ASSEMBLY AND TEST DATA

Cold Diff Test : 150 PSIG
 BDR Lower : FXD Notches
 Leakage Rate : 0 BPM
 Blow Down Meas : 30 PSIG
 Lift : 0 IN
 BP Test : No
 Repair Company : KINGS METER SERVICE
 Assembled : IAN SCOTT
 Date Tested : Jun 21, 1996
 Next Maint For :

Reseat Press : 120 PSIG
 BDR Upper : 0 Notches
 Test Media : Air
 Blow Down Req'd : 7% = 11 PSIG
 Comp Screw : 0 IN
 Test Gauge # : 3A/3B
 Tested : IAN
 Witnessed :
 Next Maint Date: Jun 21, 2000
 Test Method : Bench

QUALITY CONTROL

Oxygen Cleaned : No
 PSV Taped : Yes
 Paper Work Done: Yes
 Visual Inspectn: Yes
 Stamp Repair VR: No

PSV Sealed : Yes
 PSV Painted : Yes
 PSV Complete : Yes
 Coord. Notified: Yes
 Main Valve Test: No

Sign Off & Date:

D I M E N S I O N S

	Min/Max	Measured	Diff (Inches)
Nozzle Length :			
Noz Seat ID :	0.0000	0.0000	0.0000
Noz Seat OD :	0.0000	0.0000	0.0000
Noz Seat Step :	0.0000	0.0000	0.0000
Disk ID :	0.0000	0.0000	0.0000
Disk Thickness :			
Disk Seat Step :	0.0000	0.0000	0.0000
Disk OD :	0.0000	0.0000	0.0000
Hldr Barrel OD :	0.0000	0.0000	0.0000
Spring Number :			
Spring Range :			
		Material : CARBON STEEL	
		To :	

Comment : ORIGINAL DATA

R E P A I R S U M M A R Y

Labor Cost :		Parts Cost :	0.00
Misc Cost :	0.00	Handling :	0.00
Total Cost :		Repair Hours :	0.00

R E M A R K S / A C T I O N S

TYPE	KEYWORD	WHO	DATE	DESCRIPTION
Remark	MANIFOLD	SCOTT	1996/06/21	REPAIR MANIFOLD REPAIR (4) 2 1/2" REGO VALVES 6HRS

Sign Off & Date:

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 # 134927

Client	Canadian Natural Resources			Date of Insp.	March 20, 2000		
Prov. Reg.#	134927			Location	Joffre Gas Plant		
Equipment	L.P. Storage Tank			LSD	14-36-38-27W4		
Tag/Equip. #				Comp./Unit #	NE Corner Site		
Vessel Status	In Operation			Job #	00-073		
Fabricator	CE Natco	Serial #	LM 1367	MAWP/Temp	150psi/ 120F		
CRN#	C7654.2	Shell Mat'l	A-516-70	Shell Thick.	0.750"		
Corr. All.	0.0625"	Head Mat'l	A-516-70	Head Thick.	0.750"		
Diameter	12'	Length	40' s/s	Height	RT	100%	HT
Year Built	1977	Next Insp.	2004	Insp. Type	VE/UT		
Service	Sweet	Manway	Yes - 18" dia.	Coating	No		
PSV #.	Multiport Manifold (TAG# 23)						
Mfg.	Rego	Serial #	7198	Set Pressure	150psi		
Type/Model	48554M180	Capacity		Size	3"		
Date of Service	96/06	Next Service	2000	Service Co.	Kings		

Report # 6754

Observations:

External: Painted, chalky, bolted solid to concrete supports.

UT Readings (measurements in inches)

Test Point	Nominal	A	B	C	D
North Head	0.750	0.771	0.777	0.778	0.791
Top N. Shell	0.750	0.776	0.782	0.781	0.779
Bottom Shell - A	0.750	0.763	0.754	0.754	0.759
Bottom Shell - B	0.750	0.757	0.760	0.760	0.761
Bottom Shell - C	0.750	0.787	0.790	0.785	0.787
Bottom Shell - D	0.750	0.780	0.780	0.778	0.783
Side Shell	0.750	0.782	0.780	0.776	0.778
South Head	0.750	0.762	0.782	0.799	0.786

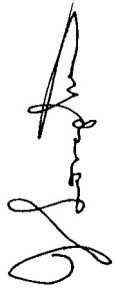
RAE Inspection Service (1979) Ltd.
#111, 4808 – 87 Street, Edmonton, Alberta T6E 5W3
Phone: (780) 469-2401 Fax: (780) 468-2422

Field Inspection Report
Vessel A # 134927

Recommendations:

1. Service PSV.
2. Prepare in 2004 to open for 100% internal inspection and W.F. MPI inspection.

Inspector: Jim Longstreet



Reviewed By:

