

New

**HUSKY OIL (LLOYDMINSTER)**  
**NORTHMINSTER****INSPECTION REPORT**

Date: 12/06/2004

Insp. Date: 12/06/2004

Name: VERT 2 PHASE SEPARATOR

Location: NORTHMINSTER

Equip. #: S19-01-00V-SN2559

LSD 6-34-50-27W3M

Prov. #: SASK#27373

Serial #: 2559

Insp. Type: ON STREAM

Tag #: #62037651

VI: No UG: Yes PT: No HT: No US: No

VE: Yes LT: No RT: No MT: No OTHER: No

**Observations**

Inspector: L. Bell

12/06/2004

**Summary**

November 23, 2004: Vessel was externally inspected and found to be in overall fair condition. No record in the QA/QC database or files for a previous inspection done.

**Details**

This separator was manufactured by RJV in 1994. Nominal head and shell thickness is 0.625" with a corrosion allowance of 0.125". MAWP is 720psi @ 100F. CRN#K2422.23 exists which is suitable for service in Saskatchewan.

**EXTERNAL:**

Base/Supports: Acceptable condition

Paint: Acceptable

Piping/Alignment: Good condition

Bolting: No shortbolting noted

Threaded Connections: Acceptable

PSV protecting the vessel was serviced May, 2002 & has a set pressure of 720psi (acceptable).

Ultrasonics was done on the separator with all readings noted to be above manufacturer's nominal thickness (see report attached).

**Recommendations**

Inspector:

**Summary**

PSV should be serviced next year. Reinspect again in 4 years.

cc: Dennis McKague

**Details****Results**

Inspector:

**Summary****Details**

Reviewed By:

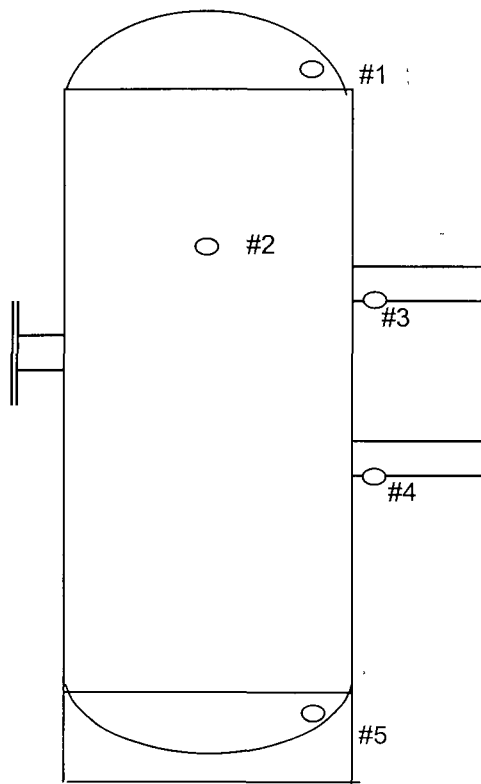
Date: 12/06/2004

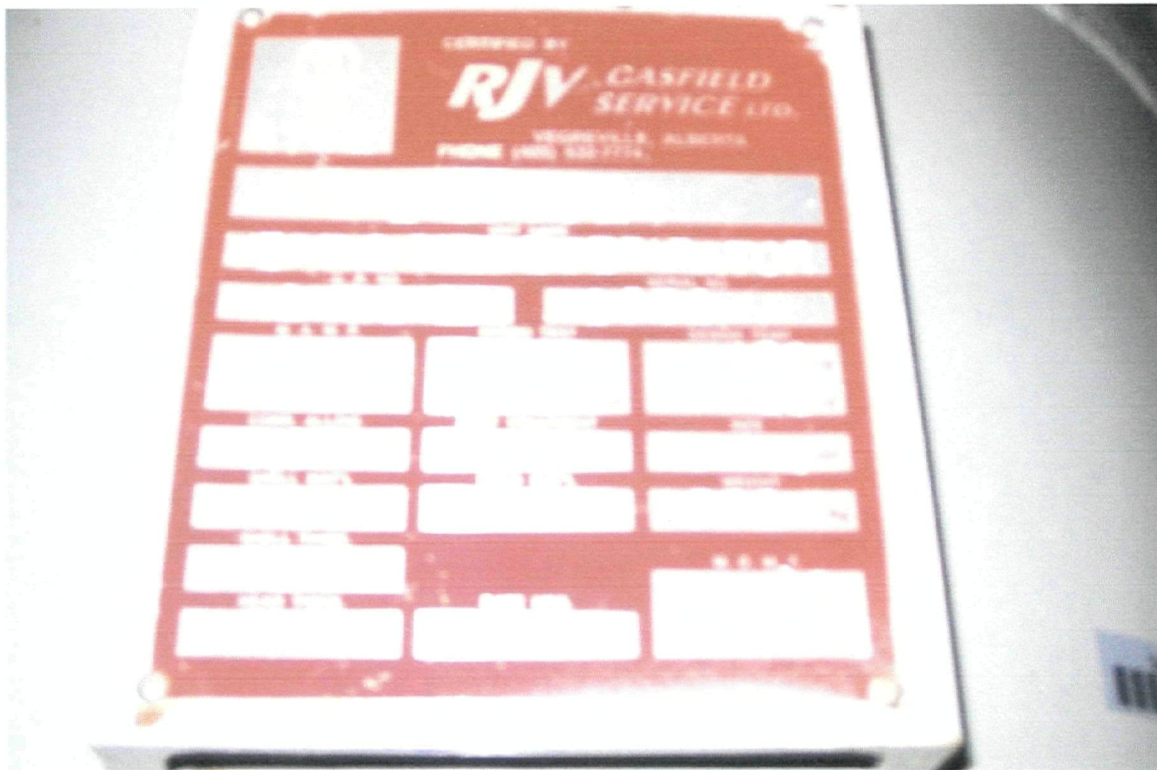
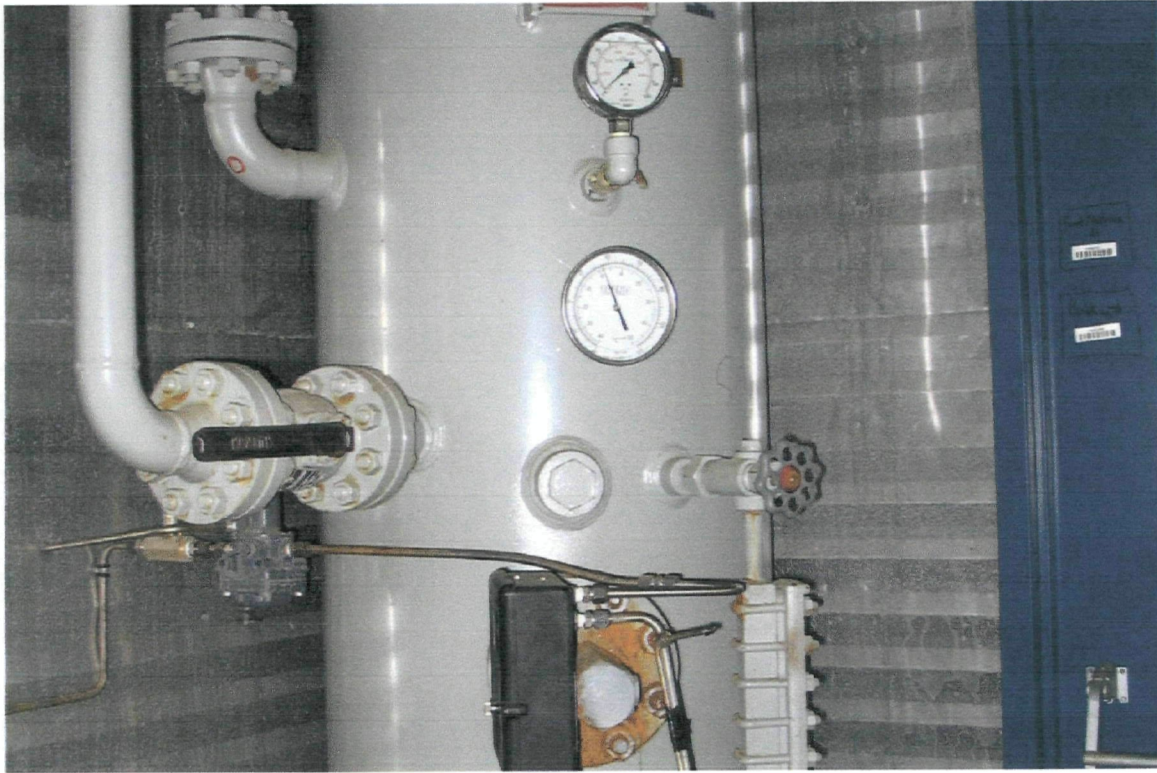
insp

File Name: S19-01-00V-SN2559  
 RJV Serial Number 2559  
 Ultrasonic Thickness Tests  
 Corrosion Allowance = 0.125"

6-34-50-27W3M

Point#	Nom Thk	Retirement Thickness	Nov-04			
1	0.625	0.500	0.754			
2	0.625	0.500	0.634			
3			0.461			
4			0.436			
5	0.625	0.500	0.841			





Poor Quality



VESSEL

62037651

VESSEL

## HUSKY PRESSURE VESSEL INSPECTION REPORT

Equipment Location: <u>Production Warehouse (Lloyd.)</u>	Equip #: <u>1A-2916923</u>	Report #: <u>PWH-94-373</u>
Registration #: <u>A-2916923</u>	CRN #: <u>K2422.23</u>	Serial #: <u>2559</u>
Equipment Description: <u>2 phase separator</u>	Service: <u>Gas</u>	
Date of Inspection: <u>06-26-94</u>	Next Inspect. Date: _____	
Inspected Under Code(s):	B31.1 <input type="checkbox"/> B31.3 <input type="checkbox"/> Sec 1 <input type="checkbox"/> Sec V <input type="checkbox"/> Sec IX <input type="checkbox"/> CSA B51 <input checked="" type="checkbox"/> Sec VIII Div I <input checked="" type="checkbox"/> Z183 <input type="checkbox"/> Z184 <input type="checkbox"/> Eng. Specs. <input type="checkbox"/> Other _____	
Type of Inspection:	External <input checked="" type="checkbox"/> Internal <input type="checkbox"/> VT <input checked="" type="checkbox"/> RT <input type="checkbox"/> UT <input checked="" type="checkbox"/> MT <input type="checkbox"/> PT <input type="checkbox"/> LT <input type="checkbox"/> HT <input type="checkbox"/> Other (specify): _____	

## 1.0 GENERAL:

MAWP:	<u>720 PSI</u>	at	<u>100°F</u>	Capacity:	_____
Safety Valve:	Yes: <input checked="" type="checkbox"/>	No: _____	If yes, ID#:	_____	Inlet Size: <u>1"</u>
Setting:	kPa: <u>4964</u>	psi: <u>720</u>	Serial No:	<u>9400025</u>	CRN: <u>0604492</u>
Capacity:	USGM: _____	SCFM: <u>3562</u>	PPHS: _____	Code: <u>UV</u>	Date: <u>03/94</u>
Safety Valve Serviced:	Yes: _____	No: <input checked="" type="checkbox"/>	New: <input checked="" type="checkbox"/>		
Last Service Date:	_____				
Vessel Has Manway:	Yes: _____	No: <input checked="" type="checkbox"/>	Inspection Port:	<input checked="" type="checkbox"/>	
Welders Qualified:	Yes: _____	No: _____	Unknown:	<input checked="" type="checkbox"/>	
Names Of Welders:	_____				
WPS#:	_____				
Registration #:	_____				

## 2.0 REMARKS:

Built By: RTV, Yr. built: 03/94, Shell mat'l: SA-516-70 / Thk: 15.87mm  
 Head Mat'l: SA-516-70 / Thk: 15.87mm, Cor. all: 3.17, SIZE: 60 x 1525mm, M.O.M.T.: 20°F / -29°C  
 UT readings indicate no wall loss in the areas scanned.  
 - New Equipment was not in operation at the time of Inspection.  
 - Separator is externally coated.  
 - PSV's CRN is missing the point, which would indicate what province it's registered in for intended use.

Nonconformance Reports Issued:	Yes: <input type="checkbox"/>	No: <input checked="" type="checkbox"/>	Reference #:	_____
New Material Identified:	Yes: <input checked="" type="checkbox"/>	No: <input type="checkbox"/>	N/A:	<input type="checkbox"/>
Shell Condition:	Good: <input checked="" type="checkbox"/>	Fair: <input type="checkbox"/>	Poor: <input type="checkbox"/>	Failure: <input type="checkbox"/>
Pressure Test:	<u>NA</u> kPa on shell			
Hold Time Under Pressure:	<u>NA</u> minutes	Pass: _____	Fail: _____	

## 3.0 RECOMMENDATIONS:

Local A.I. to be notified prior to commissioning equipment at assign location.

## 4.0 STATUS

Suitable for further service:	Yes: <input checked="" type="checkbox"/>	No: <input type="checkbox"/>	N/A: <input checked="" type="checkbox"/>
Repairs required:	Yes: <input type="checkbox"/>	No: <input type="checkbox"/>	N/A: <input checked="" type="checkbox"/>
Repairs completed:	Yes: <input type="checkbox"/>	No: <input type="checkbox"/>	N/A: <input checked="" type="checkbox"/>
Attached Reports:	Yes: <input checked="" type="checkbox"/>	No: <input type="checkbox"/>	N/A: <input type="checkbox"/>

Inspected by:

Distribution:

Reading File

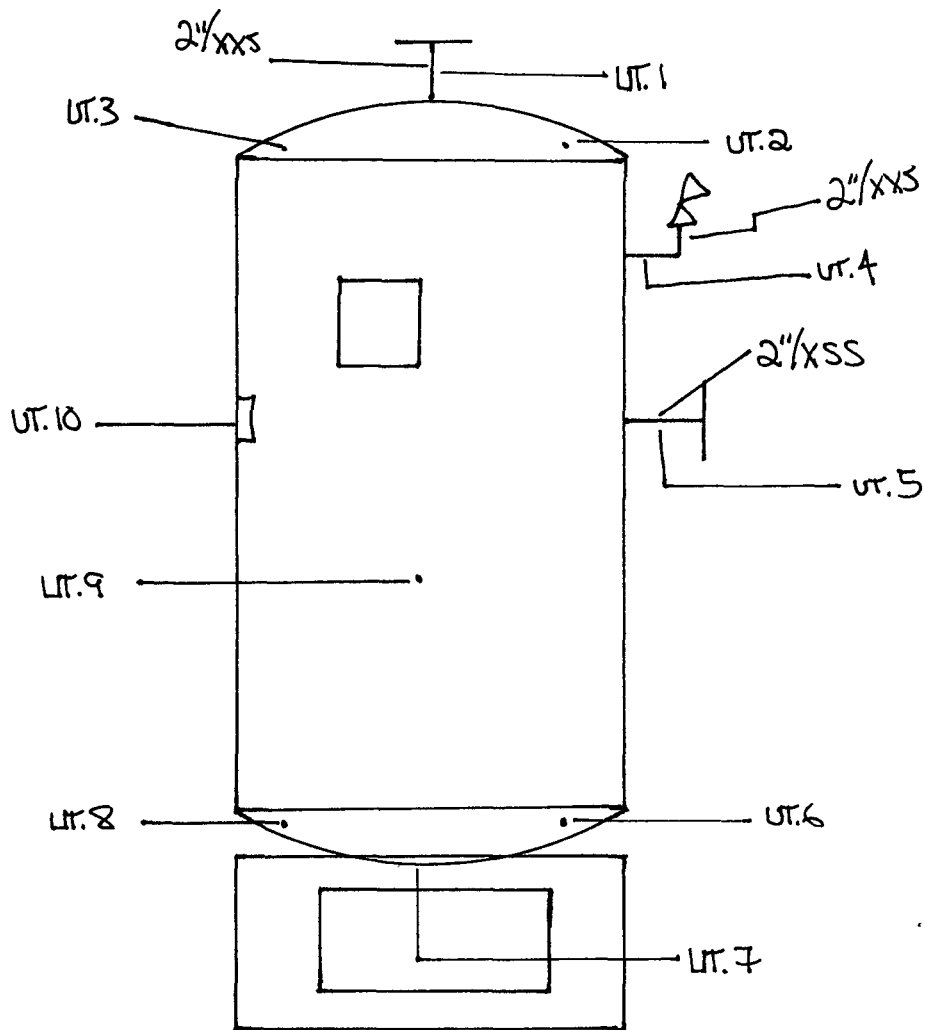
Chief Inspector

D. Malters  
B. Simon



## 2. Remarks (Continued)

2 phase separator  
Rea.# A-2916923









RT-2

CERTIFIED BY

**RJV GASFIELD  
SERVICE LTD.**

VEGREVILLE, ALBERTA  
PHONE (403) 632-7771

2916925

UNIT NAME

VERT. 2 PHASE SEPARATOR

C. R. NO.

K2422.23

2559

M. A. W. P.

720

psi

4965

Kpa

HYDRO TEST

1080

psi

7448

Kpa

DESIGN TEMP.

100

F

38

C

CORR. ALLOW.

3.17

mm

HEAT TREATMENT

NIL

SIZE

610 X 1525

mm

SHELL MAT'L

SA-516-70

HEAD MAT'L

SA-516-70

WEIGHT

592

Kg

SHELL THICK.

15.87

mm

HEAD THICK.

15.87

mm

DATE MFG.

94-03

M. D. M. Y.

-20

F

-29

C