



Husky Group of Companies
P.O. Box 6525, Station D
Calgary, Alberta T2P 3G7

DATE

11 Jan 2013

CHEQUE NUMBER

44378985

00134738

+

62048705

To: TECHNICAL SAFETY AUTHORITY OF
SASKATCHEWAN
DBA BOILER & PRESSURE VESSEL SAFETY
1855 VICTORIA AVE STE 3310
REGINA SK S4P 3T2

SENT



Husky Group of Companies
P.O. Box 6525, Station D
Calgary, Alberta T2P 3G7

DATE

11 Jan 2013

CHEQUE NUMBER

44378985

VENDOR		TECHNICAL SAFETY AUTHORITY OF		VENDOR NUMBER		381761
DOCUMENT NUMBER	INVOICE NUMBER	INVOICE AMOUNT	DATE	DESCRIPTION	NET AMOUNT	
8502080992	0001310406	\$350.00	10 Dec 2012	Amy Scaddan - LLHPL147E Lloyd Tech Services Saskatchewan Boilers Branch - License to Operate Renewal Fees	\$350.00	
TOTAL					*****\$350.00	

REMITTANCE ADVISE - RETAIN FOR YOUR RECORDS

PLEASE DETACH BEFORE DEPOSITING CHEQUE



Husky Group of Companies
P.O. Box 6525, Station D
Calgary, Alberta T2P 3G7

Canadian Imperial Bank of Commerce
CIBC Place
Calgary, Alberta T2P 2P2
00009-010

CHEQUE NUMBER 44378985

DATE 11012013
D D M M Y Y Y Y

CANADIAN
DOLLARS
PAY EXACTLY

*****\$350.00
Ast-Ast-Ast-Ast-Ast-Ast-DollarThreeFiveZero-Per-Iero-Iero-

\$ *****350.00

PAY
TO
THE
ORDER
OF

TECHNICAL SAFETY AUTHORITY OF
SASKATCHEWAN
DBA BOILER & PRESSURE VESSEL SAFETY
1855 VICTORIA AVE STE 3310
REGINA SK S4P 3T2

Husky Oil Operations Limited
CANADIAN DOLLARS



PER

[Signature]

AUTHORIZED SIGNING OFFICER

AUTHORIZED SIGNING OFFICER

ORIGINAL DOCUMENT CONTAINS AN ARTIFICIAL WATERMARK ON BACK - HOLD AT AN ANGLE TO VIEW: FACE OF DOCUMENT IS A DUAL COLOURED BACKGROUND NOT A WHITE BACKGROUND.

44378985 303090010 47002417

Husky Oil

Requisition For Rush Cheque or Special Handling

REMIT TO: Technical Safety Authority of Saskatchewan
Boiler and Pressure Vessel Safety Unit
#3310 1855 Victoria Ave, Regina SK
381761

INSTRUCTIONS

(NEW VENDOR # 381761)

DATE REQUIRED 01-15
RETURN CHEQUE TO Amy Scaddan

LOCAL
825-1143

Page 1 of 1

DATE REQUISITIONED

12-11

ISSUE CHEQUE ON Company Code

CHEQUE CURRENCY ☒ CAD ☐ USD

CHEQUE DESCRIPTION

Saskatchewan Boilers Branch - Licence to Operate Renewal Fees

INVOICE AMOUNT CR
350.00

	PK	ACCOUNT	COST C	AFE	ORDER	01 SORT KEY				QUANTITY	CO	
		82456	78881									
AMOUNT	CR	TAX	DESCRIPTION			RI	BI	SEI	U OF M	Ref Key 1 (GL Acct)	Ref Key 3 (CC or AFE)	Profit Centre
100.00			App for LTO ser # 0714401-3									

	PK	ACCOUNT	COST C	AFE	ORDER	01 SORT KEY					QUANTITY	CO
		82456	78881									
AMOUNT	CR	TAX	DESCRIPTION			RI	BI	SEI	U OF M	Ref Key 1 (GL Acct)	Ref Key 3 (CC or AFE)	Profit Centre
75.00			App for LPT Ser # 0714401-3									

	PK	ACCOUNT	COST C	AFE	ORDER	01 SORT KEY				QUANTITY	CO	
		82456	78134									
AMOUNT	CR	TAX	DESCRIPTION			RI	BI	SEI	U OF M	Ref Key 1 (GL Acct)	Ref Key 3 (CC or AFE)	Profit Centre
100.00			App for LTO ser # 6831									

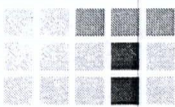
PK		ACCOUNT	COST C	AFE	ORDER	01 SORT KEY					QUANTITY	CO
		82456	78134									
AMOUNT	CR	TAX	DESCRIPTION			RI	BI	SEI	U OF M	Ref Key 1 (GL Acct)	Ref Key 3 (CC or AFE)	Profit Centre
75.00			App for LPT ser # 6831									

APPROVALS

SIGNATURE 	SIGNATURE
APPROVAL STAMP  RAYMOND TRACHUK 2001126	APPROVAL STAMP

REJECT CODE

SENT



INSTALLATION OR REPAIR/ALTERATION PERMIT

Form LIB-0001

Any installation, repair or alteration of a boiler or pressure vessel must be performed under an installation permit by a licensed contractor. The permit fee as listed in Table 6 of the Appendix of the Regulations must be submitted with each permit as required for each boiler or pressure vessel being installed, repaired or altered.

We require the fully completed Installation Permit accompanied by the appropriate fee in order to process the permit.

Exemptions:

The following items are exempt under the Legislation:
(Further exemptions may also apply as described in the legislation.)

Heating boilers of 3 square metres heating surface or less;
Power boilers of 2 square metres heating surface or less;
Pressure vessels of 152 mm inside diameter or less; or
Pressure vessels of 0.0425 cubic metres of internal volume or less.

Refrigeration Plants and Refrigeration Vessels:

Refrigeration plants require only one permit. All vessels included in the plant must have their data reports attached to this application. If replacing or adding a new vessel to an existing plant, the fee for the vessel is based on the tonnage of refrigeration for the existing plant.

Please check the purpose of the permit below:

Installation: ☒ New install ☐ Repair ☐ Alteration
☐ Replacing old equipment, serial # _____

If a repair or alteration, please fill out the Repair/Alteration form and submit with this form. Please omit Section II below.

I. Location: (where item is to be installed or repair/alteration being performed)

Building or Oilfield Name 111/04-18-51-25w3
Address or Land Sample tags
Street Address _____
Location _____
Town/City _____ Province _____ Postal Code _____
GPS Location (If available) _____

II. Description of Item (Installation only)

☐ Boiler

Manufacturer _____ Model _____
Type ☐ Cast Iron ☐ Coil ☐ FinTubed ☐ Firetube ☐ Water Tube ☐ Steam Traction Engine ☐ Electric ☐ Other
Serial Number _____ Heating Surface _____
(square m - bare tube for coil or fin tube)
CRN or National Board Number _____ Date of Manufacture _____
(yyyy/mm/dd)
Data Report Attached ☐ Yes ☐ No
If No, please explain _____
Service ☐ Hot Water ☐ Steam ☐ Thermal
☐ Low Pressure ☐ High Pressure
Maximum Allowable Working Pressure _____
(kPa)

☒ Pressure Vessel: (for Refrigeration Plants, please attach a list of vessels being installed)

Manufacturer R/V Gas Field Services Serial Number 6831
Type ☐ Hot Water Tank ☐ Air Receiver ☐ Oilfield Treater ☒ Gas & Oil Separator
☐ Heat Exchanger ☐ Sterilizer ☐ Cooker ☐ Propane Dispensing Tank
☐ Free Water KO ☐ Fired Process HTR ☐ NH₃ Tank ☐ NH₃ Dispensing Tank
☐ Expansion Tank ☐ Scrubber ☐ Hydro-pneumatic Tank ☐ Propane Vehicle Fuel Tank
☐ De-aerator ☐ Blowdown Vessel ☐ Flash Tank ☐ Propane Tank
☐ Refrigeration Plant ☐ Refrigeration Vessel ☐ Other

Dimensions: Overall Length 1.524 (metres) Outside Diameter 0.508 (metres)
Refrig Plants & Refrig Vessels: # of Vessels(New Plant) _____ Refrig Type _____ Refrig Tonnage _____ (Tonnes)
CRN or National Board Number H6948.23 Date of Manufacture 2001 (yyyy/mm/dd)
Data Report Attached ☒ Yes ☐ No If No, please explain _____
Service Gas Maximum Allowable Working Pressure 4965 kPa
(i.e. Air, Water, Propane, etc.)

III. Owner Information:

Name	HUSKY ENERGY		
Mailing Address	4335-44th Street		
	Street Address		
	LLOYDMINSTER	SASK	S9V0Z8
	Town/City	Province	Postal Code
Contact Person	AMY SCADDAN	DATA INTEGRITY	
		Title	
Telephone	306-825-1143	Fax	

IV. Installer/Contractor Information:

Name	HUSKY ENERGY		
Mailing Address	4335-44th st		
	Street Address		
	LLOYDMINSTER	SASK	S9V0Z8
	Town/City	Province	Postal Code
Contractor's Licence No.	3854	(for installations, repairs or alterations)	
QCS or QMS Licence No.	QMS-0017-0001	(for repairs or alterations only)	
Date work to commence	yyyy/mm/dd	Date item available for inspection	2012-12-10
		yyyy/mm/dd	
Contact Person	MARIE LAFONTAINE	INSPECTOR	
		Title	
Telephone	306-820-4032	Fax	

IMPORTANT NOTE: Please telephone our office or send an e-mail to boilerpermits@tsask.ca if there is any change in the "available for inspection" date after you have submitted this form.

V. Authorizing Signature

I hereby state that, to the best of my knowledge, the information contained within this document is complete and correct.

MARIE LAFONTAINE

Please print name here

Signature



INSPECTOR

Position with organization

Date

2012-12-10

VI. Fee:

Attached Fee \$75 Method of Payment CHEQUE

For Internal Use Only

Authorization # _____ Date Processed ____/____/____

Authorized by _____ Signature _____

Comments _____

ALBERTA BOILERS SAFETY ASSOCIATION
Suite #200, 4208 - 97 Street
Edmonton, Alberta T6E 5Z9

RJV GAS FIELD SERVICES LTD.

A 475057

**MANUFACTURER'S DATA REPORT
FOR PRESSURE VESSELS**

Partial ☐

Upon shipment of a pressure vessel, this form fully and correctly filled in must be mailed to the office of the Chief Inspector in the province of installation in accordance with the regulations under the Act, governing the construction and installation of pressure vessels.

Manufactured By Name & address of Manufacturer	R.J. V. Gas Field Services Ltd. 4901-47 th Street, Vegreville, AB, T9C 1C3
Manufactured For Name & Address of Purchaser/Consignee	R.J.V. Gas Field Services Ltd. 4901-47th Street Vegreville, Alberta T9C 1C3
Ultimate Owner Name & Address	STOCK
Location Of Installation Address	STOCK

Pressure Vessel			
Type: Vertical 2-Phase Separator	Serial Number: 6831	Year Built: 2001	Overall Length: 1524mm sm/sm
Provincial Registration No. - C.R.N.: H6948.2	National Board No.: N/A	Drawing No.: V89101 2510	Diameter: 508mm O.D.

The chemical and physical properties of all parts meet the requirements of material specifications of the A.S.M.E. code.				
The design, construction and workmanship conform to CSA B51.	ASME 1998 Edition Section VIII	Division: 1 (one)	Addenda: 2000 Addenda	Code Case No.: N/A
Manufacturers partial data reports properly identified and signed by authorized inspectors have been furnished for the following items				
of the report, and attached to this report.				
Names of parts:	Item No.:	Manufacturers Name:	Identifying Stamp:	

Shell													
Description	Material	Thickness	Corrosion Allowance	Diameter	Overall Length	Number Of Courses	Girth Joints		Longitudinal Joints			P.W.H.T.	
							Type	R.T.	Type	R.T.	Efficiency	Temp.	Time
Shell	SA-516-70	12.7mm	1.6mm	508mm	1524mm	1	1	RT-2	1	RT-1	100%		

Heads										
Description	Material	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Ellipse Ratio	Conical Apex Angle	Hemisph. Radius	Flat Diameter	Side To Pressure
Top	SA-516-70	11.88mm	1.6mm			2:1				Concave
Bottom	SA-516-70	11.88mm	1.6mm			2:1				Concave
Removable bolts used (describe other fastenings):					Material Spec.:		Grade:		Size/Dimension:	

Pressure - Temperature				
Pressure Vessel Part:	Constructed for Maximum Allowable Working Pressure:	At Maximum Temperature:	Minimum Temperature (when less than 29° C)	Test Pressure (Hydro/Pneumatic or combination)
Vessel	4965 Kpa	38°C	-29°C	7445 Kpa

FORM NO. CB-118

(A) 475057

Nozzles and Openings

[illegible]

Supports

Skirt	Lugs / No.	Legs / No.	Other (Description)	Attached (Where And How)
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	N/A	N/A	N/A	Welded to Bottom Head

Remarks / Observations (Cubical Capacity/Volume)

Volume= (0.337 cubic meters) Vertical 2 Phase Separator

Exempt from impact test requirements as per UG 20(F)

Hydrostatically Tested in the Vertical Position

Nozzle to shell weld in Full Penetration

Certificate Of Compliance

We certify that the statements made in this data report are correct and that the said vessel has been constructed in accordance with the Provincial Registered design below and the requirements of standard CSA B51.

Provincial Registered Design: **CRN H6948.2**

Manufacturer: **R.J.V. GAS FIELD SERVICES LTD.**

Signature

Date _____

AUG 1 2009

Certificate Of Shop Inspection

I, the undersigned, a duly authorized Boiler and Pressure Vessel inspector employed by **Alberta Boilers Safety Association** have inspected the above vessel and state that to the best of my knowledge and belief, the manufacturer has constructed the vessel in accordance with the Provincial Registration **CRN H6948.2** and the requirements of standard CSA B51.

Inspector's Name:

METRO DENYS AB#132

Signature _____

Date _____

AUG 21 2001

■ ■ ■ **Technical
Safety Authority
of Saskatchewan**

330 - 1855 Victoria Avenue
Regina, SK S4P 3T2
Canada

306-787-1443
info@tsask.ca
www.tsask.ca

REGISTRATION APPROVAL

06-Dec-12

RJV Gasfield Services
4901 Bruce Road
Vegreville, AB
T9C 1C3

Our File 46738 [0V]

ATTENTION : Wes Markowsky

With reference to your submission respecting the registration of the item below, for legal use in the province, please note we have surveyed, approved and registered this design as noted.

MANUFACTURER :

RJV Gasfield Service Ltd.

ITEM :

DRAWING NUMBER :

CRN:

Vertical Separator

V89101 Rev. 0

H6948.23

We wish to point out that every vessel must be constructed strictly in accordance with the registered design.

In addition to stamping every vessel with the registration number given above and as required in CSA Code B51, a Manufacturer's Data Report must be forwarded to this office immediately at the time a vessel is shipped. Such forms may be obtained upon request.

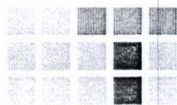
Sincerely,



Kalam Azad, P.Eng.

Codes and Standards Compliance

REMARKS: CRN registered under reciprocal agreement.



Application for Licence to Operate

This Application form must be filled in completely and returned to the Authority with payment of the fee. Failure to do so may result in a delay in the processing of your application. **Only one piece of pressure equipment per application**, please refer to LIB-0003 Client Authorization Payment Form for payment options. You can download all forms at www.tsask.ca

LIB-0002

I. Owner's Information

Owner's Name: Husky Energy

Address: 4335-44th Street London, SK S9V0Z8
(Apt/Street) (City, Prov) (Postal Code)

Phone #: 306 825 1143 Fax #: ()

Contact Name: Amy Scaddon Contact Phone #: 306 825 1143

Email: _____ Contact Fax #: ()

To the best of my knowledge, this application and all supporting documents are accurate. I understand that a false or misleading statement in this application or in any of the reference or other evidence of qualification submitted by myself or on my behalf may result in the Chief Inspector denying this application.

A. Scaddon
(Signature of Owner or delegate)

05.31.2012
(Date -MM DD YYYY)

II. Equipment Information

☒ New Installation ☐ Existing Installation Equipment Licence #: _____
(if known, change of ownership)

Equipment type: ☐ Boiler ☒ Pressure Vessel ☐ Refrigeration Plant
Revenue Codes: (17710-428703) (17710-428702) (17710-428704)

Serial #: 6831 CRN #: HC948.23

Operated under a Quality Management System: ☒ Yes QMS #: QMS-0017-0001

III. Fee Information

Capacity or Multiple: 0.77 ☐ kilowatts ☐ tonnes ☐ meters

Fee attached: \$100 Method of Payment: cheque

IV. Office Use Only

Authorization #: _____ Date Entered: _____

Entered by: _____ Signature: _____

Comments: _____

Installation or Repair/Alteration Permit

TSK-0001

I. Application Information

☒ **Installation** ☐ **Repair** ☐ **Alteration** ☐ **Replacing old equipment, Serial #:** _____

If a repair or alteration, please fill out the Repair/Alteration form and submit with this form and disregard Section V. of this application.

Along with this Application, please include payment for either:

☒ **Standard Base Application Fee = \$75.00**

A fee of \$135.00/hour plus GST will be invoiced in addition to the base fee for the cost of the inspection

☐ **Expedited Permit Application Fee = \$150.00**

A fee of \$205.00/hour plus GST will be invoiced in addition to the expedited fee for the cost of the inspection

Any installation, repair or alteration of a boiler or pressure vessel must be performed under an installation permit by a licensed contractor. The permit fee as listed in Table 6 of the Appendix of the Regulations must be submitted with each permit as required for **each boiler or pressure vessel/refrigeration being installed, repaired or altered.**

We require the fully completed Installation Permit accompanied by the appropriate fee in order to process the permit.

Exemptions:

The following items are exempt under the Legislation:
(Further exemptions may also apply as described in the legislation.)

Heating boilers of 3 square metres heating surface or less;
Power boilers of 2 square metres heating surface or less;
Pressure vessels of 152 mm inside diameter or less; or
Pressure vessels of 0.0425 cubic metres of internal volume or less.

Refrigeration Plants and Refrigeration Vessels:

Refrigeration plants require only one permit. All vessels included in the plant must have their data reports attached to this application. If replacing or adding a new vessel to an existing plant, the fee for the vessel is based on the tonnage of refrigeration for the existing plant.

II. Location of Equipment

Building or Oilfield Name: Edam **Land Location:** 101/04-26-48-19W3

Address: _____
Street Address Town/City Province

GPS Location (If available): _____

III. Owner Information

Company Name: HUSKY ENERGY **Contact Person:** MARIE LAFONTAINE

Mailing Address: 4335-44TH STREET LLOYDMINSTER SASK S9V0Z8
Street Address Town/City Province Postal Code

Telephone: (306) 820-4032 **Fax:** ()

Email: MARIE.LAFONTAINE@HUSKYENERGY.COM

IV. Installer/Contractor Information:

Company Name: HUSKY ENERGY **Contact Person:** MARIE LAFONTAINE

Address: 4335-44TH STREET LLOYDMINSTER SASK S9V0Z8
Street Town/City Province Postal Code

Contractor's Licence No: 3854 **QCP or QMS License No:** QMS-0017-0001
(for installations, repairs or alterations) (for repairs or alterations only)

Date work to commence: _____ **Date item available for inspection:** 2012-12-01
yyyy/mm/dd yyyy/mm/dd

Email: _____

Telephone: (306) 820-4032 **Fax:** ()

IMPORTANT NOTE: Please telephone our office or send an e-mail to boilerpermits@tsask.ca if there is any change in the "available for inspection" date after you have submitted this form.

V. Description of Item (Installation only)

☐ **Boiler:**

Manufacturer _____		Model _____	
Type	<input type="checkbox"/> Cast Iron <input type="checkbox"/> Coil <input type="checkbox"/> Fin Tubed <input type="checkbox"/> Firetube <input type="checkbox"/> Water Tube <input type="checkbox"/> Steam Traction <input type="checkbox"/> Electric <input type="checkbox"/> Other	Heating Surface _____ <small>(square m - bare tube for coil or fin tube)</small>	
Serial Number _____		Date of Manufacture _____ <small>(yyyy/mm/dd)</small>	
CRN or National Board Number _____		Maximum Allowable Working Pressure _____ <small>(kPa)</small>	
Data Report Attached <input type="checkbox"/> Yes <input type="checkbox"/> No		If No, please explain: _____	
Service: <input type="checkbox"/> Hot Water <input type="checkbox"/> Steam <input type="checkbox"/> Thermal <input type="checkbox"/> Low pressure <input type="checkbox"/> High Pressure			

☒ **Pressure Vessel: (For Refrigeration Plants, please attach a list of vessels being installed)**

Manufacturer <u>Air Cooled Exchanger</u>		Serial Number <u>0714401-3</u>																									
Type	<table border="0"><tr><td><input type="checkbox"/> Hot Water Tank</td><td><input type="checkbox"/> Air Receiver</td><td><input type="checkbox"/> Oilfield Treater</td><td><input type="checkbox"/> Gas & Oil Separator</td></tr><tr><td><input checked="" type="checkbox"/> Heat Exchanger</td><td><input type="checkbox"/> Sterilizer</td><td><input type="checkbox"/> Cooker</td><td><input type="checkbox"/> Propane Dispensing Tank</td></tr><tr><td><input type="checkbox"/> Box/Plate Heat Exchanger</td><td><input type="checkbox"/> Fired Process HTR</td><td><input type="checkbox"/> NH3 Tank</td><td><input type="checkbox"/> NH3 Dispensing Tank</td></tr><tr><td><input type="checkbox"/> Expansion Tank</td><td><input type="checkbox"/> Scrubber</td><td><input type="checkbox"/> Hydro-pneumatic Tank</td><td><input type="checkbox"/> Propane Vehicle Fuel Tank</td></tr><tr><td><input type="checkbox"/> Deaerator</td><td><input type="checkbox"/> Blowdown Vessel</td><td><input type="checkbox"/> Flash Tank</td><td><input type="checkbox"/> Propane Tank</td></tr><tr><td><input type="checkbox"/> Refrigeration Plant</td><td><input type="checkbox"/> Refrigeration Vessel</td><td><input type="checkbox"/> Other</td><td><input type="checkbox"/> Free Water KO</td></tr></table>			<input type="checkbox"/> Hot Water Tank	<input type="checkbox"/> Air Receiver	<input type="checkbox"/> Oilfield Treater	<input type="checkbox"/> Gas & Oil Separator	<input checked="" type="checkbox"/> Heat Exchanger	<input type="checkbox"/> Sterilizer	<input type="checkbox"/> Cooker	<input type="checkbox"/> Propane Dispensing Tank	<input type="checkbox"/> Box/Plate Heat Exchanger	<input type="checkbox"/> Fired Process HTR	<input type="checkbox"/> NH3 Tank	<input type="checkbox"/> NH3 Dispensing Tank	<input type="checkbox"/> Expansion Tank	<input type="checkbox"/> Scrubber	<input type="checkbox"/> Hydro-pneumatic Tank	<input type="checkbox"/> Propane Vehicle Fuel Tank	<input type="checkbox"/> Deaerator	<input type="checkbox"/> Blowdown Vessel	<input type="checkbox"/> Flash Tank	<input type="checkbox"/> Propane Tank	<input type="checkbox"/> Refrigeration Plant	<input type="checkbox"/> Refrigeration Vessel	<input type="checkbox"/> Other	<input type="checkbox"/> Free Water KO
<input type="checkbox"/> Hot Water Tank	<input type="checkbox"/> Air Receiver	<input type="checkbox"/> Oilfield Treater	<input type="checkbox"/> Gas & Oil Separator																								
<input checked="" type="checkbox"/> Heat Exchanger	<input type="checkbox"/> Sterilizer	<input type="checkbox"/> Cooker	<input type="checkbox"/> Propane Dispensing Tank																								
<input type="checkbox"/> Box/Plate Heat Exchanger	<input type="checkbox"/> Fired Process HTR	<input type="checkbox"/> NH3 Tank	<input type="checkbox"/> NH3 Dispensing Tank																								
<input type="checkbox"/> Expansion Tank	<input type="checkbox"/> Scrubber	<input type="checkbox"/> Hydro-pneumatic Tank	<input type="checkbox"/> Propane Vehicle Fuel Tank																								
<input type="checkbox"/> Deaerator	<input type="checkbox"/> Blowdown Vessel	<input type="checkbox"/> Flash Tank	<input type="checkbox"/> Propane Tank																								
<input type="checkbox"/> Refrigeration Plant	<input type="checkbox"/> Refrigeration Vessel	<input type="checkbox"/> Other	<input type="checkbox"/> Free Water KO																								
Dimensions: Overall Length <u>0.518</u> (metres)		Outside Diameter: <u>0.111</u> (metres)																									
Refrig Plants & Refrig Vessels: # of Vessels(New Plant) _____		Refrig Type _____																									
CRN or National Board Number <u>T4600.23</u>		Refrig Tonnage _____ (Tonnes)																									
Date of Manufacture <u>2007</u> (yyyy/mm/dd)		If No, please explain _____																									
Data Report Attached <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Maximum Allowable Working Pressure <u>2585</u> (kPa)																									
Service _____ <small>(ie. Air, Water, Propane, etc.)</small>																											

VI. Authorizing Signature

I hereby state that, to the best of my knowledge, the information contained within this document is complete and correct.

<u>Ray Trachuk</u> Please print Name here	<u>Ray Trachuk</u> Signature
<u>2012.12.10</u> Date	<u>Lead Inspector</u> Position with Organization

VII. Fee

Attached Fee <u>75.00</u>	Method of Payment <u>cheque</u>
---------------------------	---------------------------------

VIII. For Internal Use Only

Authorization #: _____	Date Processed: _____ <small>Day Month Year</small>
Authorized By: _____	Signature: _____

66134738

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
 (Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only)
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by Air Cooled Exchangers, Inc. 1201 South 9th Broken Arrow, Oklahoma 74012
 (Name and address of manufacturer)

2. Manufactured for WATERFLOOD SERVICE AND SALES BOX 1490 ESTAVAN, SASK S4A 2L7
 (Name and address of purchaser)

3. Location of installation Unknown
 (Name and address)

4. Type Vertical 0714401-3 T4600.231 07144-H3 4849 2007
 (Hertz or vertical tanks) (Mfr's serial No.) (CRN) (Drawing No.) (Natl. Bd. No.) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 2004
 Year

to A2006 None None
 Addenda (Date) Code Case Nos. Special Service per UG-120(d)

6. Tube & Plug: SA-516-GR 70 NORM 0.750 0.063 4,375 IN. 20,375 IN.
 Mat'l. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (in. & in.) Length (overall) (ft. & in.)

7. Seams: Single Bevel N.A. N.A. 1175 +/- 25 0.50 N.A. N.A. N.A.
 Long. R.T. (Spot or Full) Eff. (%) H.T. Temp. (°F) Time (hr) Girth (Welded, Dbl. Sngl. Lap, Butt) R.T. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Mat'l. SA-516-GR-70 NORM (b) Mat'l. SA-516-GR-70 NORM
 (Spec. No., Grade) (Spec. No., Grade)

	Location Top, Bottom, End	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure
(a)	Top/Bottom	0.5 IN.	0.0625 IN.	N.A.	N.A.	N.A.	N.A.	N.A.	4 IN.	N.A.
(b)	Ends	0.5 IN.	0.0625 IN.	N.A.	N.A.	N.A.	N.A.	N.A.	4 IN.	N.A.

If removable, bolts used (describe other fastenings)

9. MAWP 375 psi at max. temp. 233 °F
 Min. design metal temp. -50 °F at 375 psi at max temp. psi Hydro test pressure 488 psi

10. Nozzles, inspection and safety valve openings: Safety Relief Valves to be provided elsewhere by others

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Mat'l.	Nom. Thk.	Reinforce Mat'l.	How Attached	Location
In/Outlet	2	2 in.	Pipe	SA-333-6	0.343 in.	Mat&Weld	UW16.1(a)	
	2	2 in.	RFWN	SA-350-LF2 CLASS 1	300RF	Mat&Weld	Welded	

11. Supports: Skirt NO Lugs 2 Legs 0 Other N.A. Attached Tubesheet/Welded
 (Yes or no) (No) (No) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned inspectors have been furnished for the following items of the report: Constructed in conformance w/ Appendix 28, IMPACT EXEMPT PER TABLE UCS-66(D) Vessel volume .8 CuFt

Tubes: (37) SA214(WLD) X 0.625" OD X 0.06" MW X 6ft long Straight Type
 Plugs: (74) SA-350-LF2 CLASS 1 SHOULDER

100% RT NOZZLE BUTT WELDS Per Customer request**CERTIFICATE OF SHOP/FIELD COMPLIANCE**

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 7646 expires 4/30/2008

Date 6-18-07 Co. name Air Cooled Exchangers, Inc. Signed Donald Lee Bailey
 (Manufacturer) (Representative)

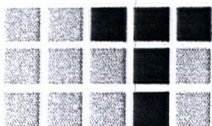
CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by Air Cooled Exchangers, Inc. at 1201 S. 9th St. Broken Arrow, Oklahoma 74012
 I the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Oklahoma and employed by OneBeacon America Insurance Co. Boston, Mass.

have inspected the component described in this Manufacturer's Data Report on 6-19-07 and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 6-19-07 Signed DAVID R. G. TEST Commission 168432-A OK-266
 (Authorized Inspector) (Natl. Board (incl. endorsements) State and No.)

SERVICE: CLO



Technical Safety Authority of Saskatchewan

330 - 1855 Victoria Avenue
Regina, SK S4P 3T2
PH: (306)798-7112 Toll Free: (866)530-8599
FAX: (306)787-9273 Toll Free: (866)760-9255
Email: boilerpermits@tsask.ca
Website: www.tsask.ca

Initial Application for Licence to Operate

This initial application for a Licence to Operate form must be filled in completely and returned to the Authority with payment of ~~\$100.00~~. Failure to do so may result in a delay in the processing of your application. **Only one piece of pressure equipment per application.** Please refer to TSK-0003 Client Authorization Payment form for payment options. You can download all forms at www.tsask.ca. Under the Boiler & Pressure Vessel Act, any equipment found operating without a valid Licence to Operate and Installation Permit, will be invoiced a fee of \$300.00.

TSK-0002

I. Owner's Information

Company: HUSKY ENERGY

Address: 4335 - 44TH STREET LLOYDMINSTER SK S9V0Z8
(Apt/Street) (City) (Prov) (Postal Code)

Phone: (306) 825 1143 Fax: ()

Contact Name: AMY SCADDAN Contact Phone #: (306) 825 1143

Email: Amy.Scaddan@huskyenergy.com Contact Fax #: ()

To the best of my knowledge, this application and all supporting documents are accurate. I understand that a false or misleading statement in this application or in any of the reference or other evidence of qualification submitted by myself or on my behalf may result in the Chief Inspector denying this application.

(Signature of Owner or delegate)

12.10.2012
(Date -MM DD YYYY)

II. Equipment Information

☒ New Installation ☐ Change of Owner Licence # (if previously Licenced) 0004950

Equipment type: ☐ Boiler ☒ Pressure Vessel ☐ Refrigeration Plant

Serial #: 0714401-3 CRN #: TH600.231

Equipment Location: 101/04-260-48-19W3 Edm

Operated under a Quality Management System: ☒ Yes QMS #: 0017-0001

III. Office Use Only

Authorization #: _____ Date Processed: _____ / _____ / _____
Day Month Year

Authorized By: _____ Signature: _____

Comments: _____