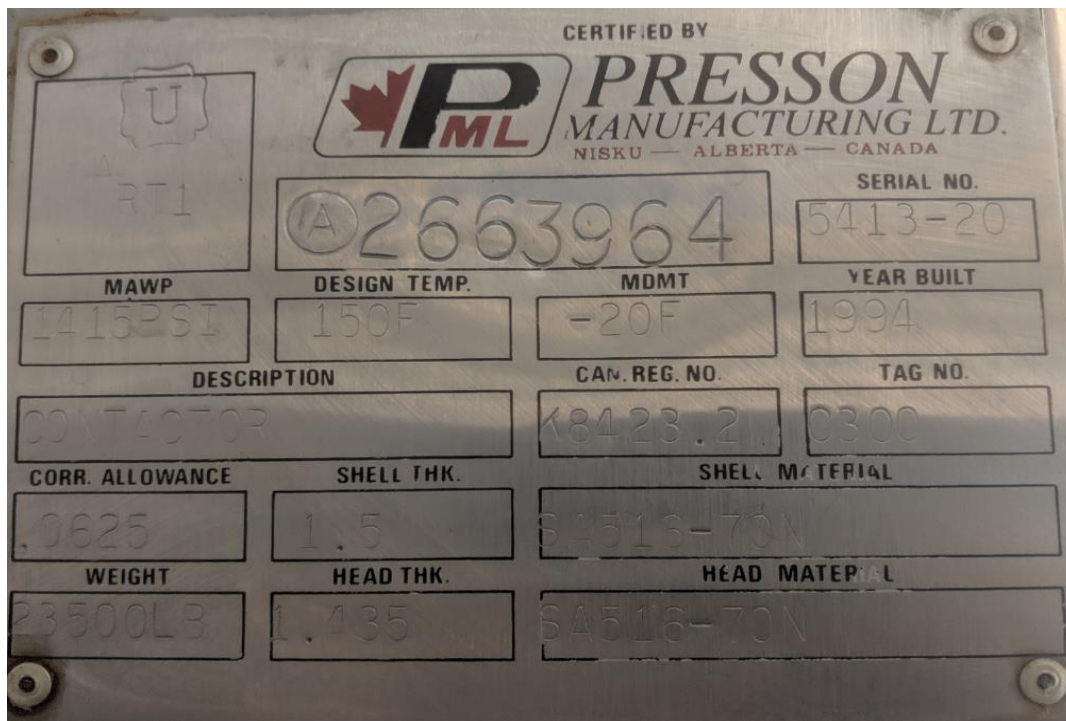




Location Name:	ANSELL	LSD:	07-27-051-19 W5M
Jur #:	A2663964	Equipment/Tag No.	66046596
Equipment Description:	GLYCOL CONTACTOR		
Manufacturer:	PRESSON		
Serial Number:	5413-20	CRN:	T8423.2
Shell MAWP:	9756	KPA Shell Design Temp:	66 °C
Tube MAWP:		KPA Tube Design Temp:	°C
Shell Material:	SA-516-70N	Head Material:	SA-516-70N
Shell Thickness:	38.10	mm Head Thickness:	36.45 mm
Corrosion Allowance:	1.5875	mm Date Built:	1994
Size:	914.4	mm Pipe / Rolled Plate:	
RT:	1	Streamline Report #:	STL-19-0246-DMS 28

NOTES: No access to the roof for inspection.







Ultrasonic Corrosion Survey

*All values are in millimeters unless otherwise stated.

Survey Name: HUSKY ENERGY

Date: JUNE 12 2019

Streamline Report #: STL-19-0246-DMS 28

Inspector: DYLAN SUNDQUIST

LSD: 07-27-051-19 W5M	Area: ANSELL	Location: GAS PLANT
Jur #: A2663964	Tag Number: 66046596	Vessel Name: GLYCOL CONTACTOR
CRN: T8423.2	Year Built: 1994	Serial Number: 5413-20
RT: 1	Vessel CA: 1.588 mm	Manufacturer: PRESSON
	Shell MAWP: 9756 KPA	Tube MAWP: KPA
	MAWT: 66 °C	MAWT: °C
		Pipe/Plate

CML Description		Previous	Current		Flange ANSI:		Material: SA-516-70N		
00 SHELL		2014	2019	Flag	CA	Nominal	T Min	STCR mm/yr	LTCR mm/yr
Shape: Cylindrical	Min	38.58	38.81	36.513	1.588	38.100		0.000	0.000
OD: 914.4	Avg	38.79	38.91						
Spec: ASME VIII Div.1	Comments:							Remaining Life:	Retirement Date:

CML Description		Previous	Current		Flange ANSI:		Material: SA-516-70N		
05 SHELL		2014	2019	Flag	CA	Nominal	T Min	STCR mm/yr	LTCR mm/yr
Shape: Cylindrical	Min	38.51	38.84	36.513	1.588	38.100		0.000	0.000
OD: 914.4	Avg	38.58	38.91						
Spec: ASME VIII Div.1	Comments:							Remaining Life:	Retirement Date:

CML Description		Previous	Current		Flange ANSI:		Material: SA-516-70N		
10 SHELL		2014	2019	Flag	CA	Nominal	T Min	STCR mm/yr	LTCR mm/yr
Shape: Cylindrical	Min	38.48	38.81	36.513	1.588	38.100		0.000	0.000
OD: 914.4	Avg	38.61	38.94						
Spec: ASME VIII Div.1	Comments:							Remaining Life:	Retirement Date:

CML Description		Previous	Current		Flange ANSI:		Material: SA-516-70N		
15 SHELL		2014	2019	Flag	CA	Nominal	T Min	STCR mm/yr	LTCR mm/yr
Shape: Cylindrical	Min	38.15	38.89	36.513	1.588	38.100		0.000	0.000
OD: 914.4	Avg	38.63	38.99						
Spec: ASME VIII Div.1	Comments:							Remaining Life:	Retirement Date:



Ultrasonic Corrosion Survey

*All values are in millimeters unless otherwise stated.

Survey Name: HUSKY ENERGY

Date: JUNE 12 2019

Streamline Report #: STL-19-0246-DMS 28

Inspector: DYLAN SUNDQUIST

LSD:	07-27-051-19 W5M	Area:	ANSELL	Location:	GAS PLANT
Jur #:	A2663964	Tag Number:	66046596	Vessel Name:	GLYCOL CONTACTOR
CRN:	T8423.2	Year Built:	1994	Serial Number:	5413-20
RT:	1	Vessel CA:	1.588 mm	Manufacturer:	PRESSON
		Shell MAWP:	9756 KPA	Tube MAWP:	KPA
		MAWT:	66 °C	MAWT:	°C
					Pipe/Plate
					0

CML Description		Previous	Current		Flange ANSI:		Material:		
20	HEAD	2014	2019	Flag	CA	Nominal	T Min	STCR mm/yr	LTCR mm/yr
Shape:	Ellipsoidal	Min	37.06	37.62	34.862	1.588	36.449	0.000	0.000
OD:	914.4	Avg	37.54	38.10				Remaining Life:	
Spec:	ASME VIII Div.1	Comments:						Retirement Date:	

CML Description		Previous	Current		Flange ANSI:		Material:		
25	PIPING	2014	2019	Flag	CA	Nominal	T Min	STCR mm/yr	LTCR mm/yr
Shape:	90° Elbow	Min	5.64	5.51	4.845	0.692	5.537	0.026	0.001
OD:	25.781	Avg	5.82	5.97				Remaining Life:	
Spec:	ASME B31.3	Comments:	ASSUMED NOMINAL					Retirement Date:	

CML Description		Previous	Current		Flange ANSI:		Material:		
30	PIPING	2014	2019	Flag	CA	Nominal	T Min	STCR mm/yr	LTCR mm/yr
Shape:	90° Elbow	Min	10.36	10.24	9.601	1.372	10.973	0.025	0.029
OD:	168.275	Avg	10.52	10.77				Remaining Life:	
Spec:	ASME B31.3	Comments:	EROSION FOUND, ASSUMED NOMINAL					Retirement Date:	

CML Description		Previous	Current		Flange ANSI:		Material:		
35	PIPING	2014	2019	Flag	CA	Nominal	T Min	STCR mm/yr	LTCR mm/yr
Shape:	90° Elbow	Min	10.24	10.16	9.601	1.372	10.973	0.016	0.033
OD:	168.275	Avg	10.80	10.41				Remaining Life:	
Spec:	ASME B31.3	Comments:	EROSION FOUND, ASSUMED NOMINAL					Retirement Date:	

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

(A) 2663964

0924

(A) 2663954

- Manufactured and certified by PRESSON MANUFACTURING LTD. 2103-8TH STREET NISKU, ALBERTA T0C 2G0
(Name and address of manufacturer)
- Manufactured for RENAISSANCE ENERGY LTD., 3000-1 ST., S.W., CALGARY, AB., T2P 3L8
(Name and address of purchaser)
- Location of installation STOC
(Name and address)
- Type VERT 5413-20 K8432.2 B5220-240 1994
(Serial, or vert. tank) (Mfg's serial No.) (CRN) (Drawing No.) (Mkt. Bd. No.) (Year built)
- 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 1992
Year

7. A-92 Code Case No. Special Service per U-1a (201d)
Addenda (Date)

- Shell: SA51670N 1.5" .0625" 36"OD 29'-0"
(Matl. (Spec. No., Grade)) (Nom. Thk. (in.)) (Corr. Allow. (in.)) (Diam. I.D. (ft. & in.)) (Length (overall) (ft. & in.))
- Seams: DBL BUTT FULL 100 DBL BUTT FULL 3
(Long. Welded, DBL, Spd., Lap, Butl) (R.T. (Spot or Full)) (EN. (S)) (H.T. Temp. (°F)) (Time (hr)) (Circ. Divided, DBL, Spd., Lap, Butl) (R.T. (Spot, Partial, or Full)) (No. of Courses)
- Heads: (a) Matl. SA51670N (b) Matl. SA51670N
(Spec. No., Grade) (Spec. No., Grade)

Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical R ₁ /R ₂	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Concave or Convex)
(a) TOP	1.435"	.0625"			2:1				CONCAVE
(b) BOTTOM	1.435"	.0625"			2:1				CONCAVE

If removable, bolts used (describe other fastenings):

(Matl., Spec. No., Gr., Size, No.)

- MAWP 1415 psi at max. temp. 150 °F
Min. design metal temp. -20 °F at 1415 psi. Hydro., pneu., or comb. test pressure 2123 psi.

10. Nozzles, inspection and safe valve openings:

Purpose (Inlet, Outlet, Drain)	No.	L ₁ diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
INLET	1	6"	RFWN	SA106B	XXH	SA51670	WELDED	SHELL
GAS OUT	1	6"	RFWN	SA106B	XXH		WELDED	HEAD
DRAIN	1	1"	CPLG	SA106B	160#		WELDED	HEAD
GLY COIL	2	1"	RFWN	SA106B	160#		WELDED	SHELL

- Supports: Skirt YES Lugs NO Legs NO Other NO Attached WELDED
(Yes or no) (Where and how)

- Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:

(Name of part, item number, Mfg's name and identifying stamp)

CONTRACTOR (C-300)
IMPACT PER UCS 66a
VOLUME = 168 cu ft

CERTIFICATE OF SHOP 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. 16081 expires SEPT., 19 95
Date MAY 18 1994 Co. name PRESSON MANUFACTURING LTD. Signed [Signature] (Manufacturer) (Approved)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by PRESSON MANUFACTURING LTD. at NISKU, ALBERTA

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 ALBERTA and employed by ALBERTA BOILER & PRESSURE VESSEL SAFETY have inspected the component described in this Manufacturer's Data Report on May 18, 19 94, 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 May 18/94 Signed [Signature] Commission ALBERTA 5
(Authorizing Inspector) (N.B. Board (Ind., endorsement, State, Prov. and No.))

(A) 2663964

Name and address of manufacturer

(Name and address of purchaser)

Phone and address:

(Holtz, Fort, Smith, etc.)

(Page 2 of 2)

(C) 2002

Only

(PLC'L Bd. No.)

1994

(Your bold)

Item Number

Remarks

[illegible]

Date MAY 16 1994

Date MAY 15 1974 Co. name PRESSON MANUFACTURING LTD.

Signature

(Continued)

Date May 18/94

Signed

mlr

Commission

ALBERTA

[Not. Board (not. endorsements), Exam. Prov., and No.]

(12/82)

This form (E00118) is available from the Order Dept., NCJAE, 345 E. 47 St., New York, N.Y. 10017