

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS A/633714
As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufactured and certified by: ALCO GAS & OIL PRODUCTION EQUIPMENT LTD. – 5203 75TH STREET, EDMONTON, ALBERTA T6E 5S5, CANADA
(Name and address of Manufacturer)

2. Manufactured for: DEVON CANADA CORPORATION – SUITE 2000, 400 3RD AVENUE SW, CALGARY, AB, T2P 4H2
(Name and address of Purchaser)

3. Location of installation: FERRIER CFP PROJECT (LSD: 11-02-039-08 W5M)
(Name and address)

4. Type: HORIZONTAL CLOSED HYDROCARBON DRAIN VESSEL 2013-8440-01B
(Horizontal, vertical, or sphere) (Tank, separator, jkt., vessel, heat exch., etc.) (Manufacturer's serial number)
W-3166.2 D-2013-8440-01-001/002 R0 N/A
(CRN) (Drawing number) National Board number (Year built)
2010 EDITION 2011a ADDENDA N/A N/A
[Edition and Addenda (date)] (Code Case number) [Special Service per UG-120(d)]

Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, shell of heat exchangers, or chamber of multi-chamber vessels.

6. Shell (a) Number of course (s): 2 (b) Overall Length : 20'-0" S/S

Course(s)			Material		Thickness		Long. Joint (Cat. A)			Circum. Joint (Cat. A, B, & C)			Heat Treatment	
No.	Diameter	Length	Spec./Grade or Type		Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time
2	78" ID	10'-0"	SA516-Gr.70MT		0.375"	1/16"	1	FULL	100%	1	SPOT	70%	N/A	N/A

7. Heads: (a) SA-516-Gr.70MT (b) SA-516-Gr.70MT
(Material spec. number grade or type) (H.T. – time & temp) (Material spec. number grade or type) (H.T. – time & temp)

	Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure		Category A		
		Min.	Corr.	Crown	Knuckle					Convex	Concave	Type	Full, Spot, None	Eff.
(a)	END	0.330"	1/16"	N/A	N/A	2:1	N/A	N/A	N/A	N/A	CONCAVE	N/A	N/A	N/A
(b)	END	0.330"	1/16"	N/A	N/A	2:1	N/A	N/A	N/A	N/A	CONCAVE	N/A	N/A	N/A

If removable, bolts used (describe other fastening) N/A
(Material spec. number grade, size, number)

8. Type of jacket N/A Jacket closure N/A
(Describe as ogee & weld, bar, etc.)
 If bar, give dimensions N/A If bolted, describe or sketch

9. MAWP 50 PSIG 15 PSIG at max temp. 300°F 300°F Min. design metal temp. -49°F at 50 PSIG
(Internal) (External) (Internal) (External)

10. Impact Test NO-EXEMPT PER UCS-66 CURVE 'D' & FIG UCS-66.1, FLANGES PER UCS-66(g) & UCS-67(a) at test temperature of N/A
[Indicate yes or no and the component(s) impact tested]

11. Hydro., Pneu., or comb. test press. HYDROSTATIC 65 PSIG Proof Test N/A

Items 12 and 13 to be completed for tube sections.

12. Tubesheet N/A N/A N/A N/A N/A
[Stationary (Material spec. number)] [Diameter (subject to press.))] (Nominal thickness) (Corr. Allow.) [Attachment (welded or bolted)]
N/A N/A N/A N/A N/A
Floating (Material spec. number)] (Diameter) (Nominal thickness) (Corr. Allow.) (Attachment)

13. Tubes N/A N/A N/A N/A N/A
(Material spec. number, grade or type) (O.D.) (Nominal thickness) (Number) [Type (Straight or U)]

Items 14-18 incl. To be completed for inner chambers of jacketed vessels or channels of heat exchangers.

14. Shell (a) Number of course (s): 22 (COIL) (b) Overall Length : 80'-10 3/4" S/S

Courses			Material		Thickness		Long. Joint (Cat A)			Circum. Joint (Cat. A, B, & C)			Heat Treatment	
No.	Diameter	Length	Spec./Grade or Type		Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time
2	NPS 2	0'-8 7/8"	SA-333 Gr.6		0.344"	1/16"	S	N/A	85%	1	NONE	70%	N/A	N/A
2	NPS 2	13'-2"	SA-312-316L		0.218"	0"	S	N/A	85%	1	NONE	70%	N/A	N/A
2	NPS 2	11'-10 1/4"	SA-312-316L		0.218"	0"	S	N/A	85%	1	NONE	70%	N/A	N/A

15. Heads: (a) SA-350LF2 CL1 NPS 2 CL300 RFWN (b) SA-350LF2 CL1 NPS 2 CL300 RFWN
(Material spec. number grade or type) (H.T. – time & temp) (Material spec. number grade or type) (H.T. – time & temp)

	Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure		Category A		
		Min.	Corr.	Crown	Knuckle					Convex	Concave	Type	Full, Spot, None	Eff.
(a)	END	0.344"	1/16"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	N/A	N/A
(b)	END	0.344"	1/16"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	--	N/A	N/A

If removable, bolts used (describe other fastening) N/A
(Material spec. number grade, size, number)