

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS *Al627060*
(Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only)
As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufactured and certified by 5Blue Process Equipment Inc. 2303-8th Street, Nisku Alberta, Canada, T9E-7Z3
(Name and address of Manufacturer)

2. Manufactured for DEVON NEC CORPORATION. #400, 3 Ave Suite 2000 Calgary, Alberta T2P 4H2, Canada
(Name and address of Purchaser)

3. Location of installation Ferrier Central Processing Facility Central Oil Battery – Separation and Treatment LSD: 11-02-038-08W5M
(Name and address)

4. Type: 5B1108-02-DR-20-001
 Vertical 5B1108-20 W2983.2 Rev.7 N/A 2013
(Horizontal or vertical, tank) (Manufacturer's serial number) (CRN) (Drawing number) (National Board number) (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 2010 edition
Year

to 2011a n/a n/a
[Addenda, if applicable (Date)] (Code Case numbers) [Special Service per UG-12(d)]

6. Shell SA-51670N 0.625" 0.125" 66" ID 12'-0"S/S
(Material spec. number, grade) (Nominal thickness) (Corr. Allow.) (Inner diameter) (Length (overall))

7. Seams: TYPE 1 Full 100% NONE N/A TYPE 1 Full 100% 2
[Long. (welded, dbl. sgl., lapp. butt)] [R.T. (Spot or Full)] [Eff. %] [LT. temp. (°F)] [Time, hr] [Girth (welded, dbl. sgl., lapp. butt)] [R.T. (Spot or full)] [Eff. %] (No. of Courses)

8. Heads: (a) Material SA-51670N (b) Material SA-51670N
(Spec. no., grade) (Spec. no., grade)

Location (Top, Bottom, Ends)	Minimum Thickness (inch)	Corrosion Allowance (inch)	Crown Radius (inch)	Knuckle Radius (inch)	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius (inch)	Flat Diameter (inch)	Side to Pressure (Convex or Concave)
(a) Top Head	0.53	0.125	N/A	N/A	2:1	N/A	N/A	N/A	Concave
(b) Bottom Head	0.53	0.125	N/A	N/A	2:1	N/A	N/A	N/A	Concave

If removable, bolts used (describe other fastenings) N/A

(Material spec. number, grade, size, number)

9. MAWP 200 15 psi at max temp. 302 302 °F
(Internal) (External) (Internal) (External)

Min. design metal temp. -50 °F at 200 psi. Hydro., pneu., or comb. test press. 260 psi.
 Proof test N/A

10. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain etc.)	No.	Diameter or Size (inch)	Type	Material		Nozzle Thickness (inch)		Reinforcement Material	Attachment Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
N1 INLET	1	16 ID	RFHB CL 150	SA-350LF2 CL1	-	1.81	0.125	N/A	UW-16.1{c}	-	Shell
N2 GAS OUTLET	1	16 ID	RFHB CL 150	SA-350LF2 CL1	-	1.81	0.125	N/A	UW-16.1{c}	-	Top Head
N3 LIQUID OUTLET	1	NPS 4	RFWN CL 150	SA-333GR6	350LF2 CL1	0.53	0.125	N/A	UW-16.1{c}	TYPE 1	Shell
N4 DRAIN	1	NPS 2	RFWN CL 300	SA-333GR6	350LF2 CL1	0.34	0.125	N/A	UW-16.1{c}	TYPE 1	Bottom Head
N5 PSV-1610E	1	6 ID	RFLWN CL 150	SA-350LF2 CL1	-	0.88	0.125	N/A	UW-16.1{c}	-	Shell
N6A/B LIT-1610	2	2 ID	RFLWN CL 300	SA-350LF2 CL1	-	0.66	0.125	N/A	UW-16.1{c}	-	Shell

11. Supports: Skirt YES Lugs NO Legs NO Other N/A Attached Welded to Bottom Head
(Yes or no) (Number) (Number) (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: N/A

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

341cu.ft. See attached U4 forms for additional nozzles. Owner's tag# (002-V-01-1610).

Heads and Shells I.T per UG-84(i)(a) @ -50F Rest Exempt per: UCS-66(g) FIG UCS-66(c).

RT FULL PER UW-11(a).

N11 NPS 2 RFBL SA350LF2CL1 CL 300, Studs 5/8"x3 1/2" LG c/w 2 nuts each. SA-193-B7 and SA-194-2H, UNRC 2A.

M1 NPS 20 RFBL SA350LF2CL1 CL 150, Studs 1 1/8"x6 1/4" LG c/w 2 nuts each. SA-193-B7 and SA-194-2H, 8UNR 2A.

Vessel Hydro-tested Vertically.

Construction drawing number: 5B1108-02-DR-20-001/002 Rev.7/1

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 BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. "U" Certificate of Authorization Number 40,338
 Expires February 4, 2014

Date 17-Oct-2013 Co. name 5Blue Process Equipment Inc. Signed Joelle Dery-Brochu (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by 5Blue Process Equipment Inc. at 2303, 8th Street 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 ABSA have inspected the component described in this Manufacturer's Data Report on 17-Oct-2013, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME BOILER AND PRESSURE VESSEL Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his/her employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his/her 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 17-Oct-2013 Signed M. Maier Commissions NB14446A, AB422
(Authorized Inspector) (National Board (incl endorsements), State, Province and number)