

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

1424 ① 2842-068

- Manufactured and certified by Nusco Pipe & Supply Ltd. 1604 - 8th Street Nisku, Alberta T0C 2G0  
(Name and address of manufacturer)
- Manufactured for Blue Range Resources Ltd. 905 70c-7th Ave. S.W. Calgary, Alta. T2P-0Z1  
(Name and address of purchaser)
- Location of installation 15-13-88-13 W6M Clear Prairie, Alta.  
(Name and address)
- Type VERT. SPARATOR 6000K-V01 K-9067.21 D0126-200 Rev. 0  
(Manufacturer's serial No.) (Drawing No.) 1993  
(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, 1992  
(Year)

- Address (City) N/A N/A  
Cash Code No.
- Shell: SA-105-B 0.656" 100 1.0 16" O.D. 7'-6"  
Met. (Spec. No., Grade) Nom. Thk. (in.) ER. (N) M.T. Temp. (°F) Time (hr) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)
- Seams: N/A 1150 1.0 WELD, SKEL, BUTT RL-1 (NLL)  
Long. (Welded, DR, End., Leg. Butt) R.T. (Spot or Full) Spec. No., Grade
- Heads: (a) Metl. SA-516-70N (b) Metl. SA-516-70N  
(Spec. No., Grade)

Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Critical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a) Top	0.588"	0.125"	--	--	2:1	--	--	--	CONCAVE
(b) Bottom	0.589"	0.125"	--	--	2:1	--	--	--	CONCAVE

If removable, bolts used (describes other fastenings) N/A  
(Met., Spec. No., Gr., Size, No.)

- M.A.W.P. 720 -20 °F at 720 psi at max. temp. 120 psi. Hydro., pneu., or comb. test pressure 1080 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Mail	Reinforcement Matl	How Attached	Location
See Attached							
U4 FORT							

- Supports: Skirt YES Lugs N/A Legs N/A Other N/A Attached WELD TO HEAD(b)  
(Yes or no) (No.) (Describe)

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, Mfg.'s name and identifying name)

- Pressure Relief Valve Will Be Installed By Customer 0.3h
- Capacity - 10.7 cu.ft. Hydrotested - Vertically
- No impact testing required in accordance with UG 20(f), UCS-66

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. 24776 expires 04/24, 1993.  
Date MAR 2 5 1993 Co. name Nusco Pipe & Supply Ltd. signed [Signature]

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Nusco Pipe & Supply Ltd. at 1604 - 8th Street Nisku, Alberta T0C 2G0  
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's Branch  
have inspected the component described in this Manufacturer's Data Report on MAR 2 5 1993, 19\_\_\_\_, 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 MAR 2 5 1993 Signed [Signature] Commissions Alberta  
(Inspector's name, endorsement, State, Prov. and No.)

**FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET**  
**As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1**

A 2842068

1. Manufactured and certified by Nusco Pipe & Supply Ltd., 1604-8th Street Nisku, Alta. T0C-2G0  
(Name and address of manufacturer)
2. Manufactured for Blue Range Resources Ltd., 905, 706 - 7th Ave. S.W. Calgary, Alta. T2P0Z1  
(Name and address of purchaser)
3. Location of installation 15-13-88-13 W6M Clear Prairie, Alta.  
(Name and address)
4. Type Vert. Separator 6000K-V01 K-9067.21 D0126-200 Rev 0 - 1993  
(Ident. contr. num. etc.) (Ident. and No.) (Date)

Date Report  
 Item Number

**NOZZLES, INSPECTION AND SAFETY VALVE OPENINGS:**

PURPOSE	NO.	DIA.	TYPE	MAT'L.	NOM. THK.	REIN.	MNT'L.	ATTACH/LOCATION
N1 Inlet	1	3"	300# RFWN	SA-106-B	XXH	N/A	N/A	Weld to Shell
N2 Outlet	1	3"	300# RFWN	SA-106-B	XXH	N/A	N/A	Weld to Top Head
N3 Drain	1	2"	300# RFWN	SA-106-B	XXH	N/A	N/A	Weld to Bot. Head
C1 Water Out	1	1"	CPLG	SA-105	6000#	N/A	N/A	Weld to Shell
C2 A/B L.G.	2	3/4"	CPLG	SA-105	6000#	N/A	N/A	Weld to Shell
C3 L.C.	1	2"	CPLG	SA-105	3000#	N/A	N/A	Weld to Shell
C4 H.C. Out.	1	1"	CPLG	SA-105	6000#	N/A	N/A	Weld to Shell
C5 A/B L.G.	2	3/4"	CPLG	SA-105	6000#	N/A	N/A	Weld to Shell
C6 H.C. L.G.	1	2"	CPLG	SA-105	3000#	N/A	N/A	Weld to Shell
C7 LSH.	1	3/4"	CPLG	SA-105	6000#	N/A	N/A	Weld to Shell
C8 Temp. Ind.	1	1/2"	CPLG	SA-105	6000#	N/A	N/A	Weld to Shell
C9 Press. Ind.	1	2"	CPLG	SA-105	3000#	N/A	N/A	Weld to Shell
C10 P.S.V.	1	2"	CPLG	SA-105	3000#	N/A	N/A	Weld to Shell
C11 Insp. A/B	2	1-1/2"	CPLG	SA-105	3000#	N/A	N/A	Weld to Shell

Remarks

Date MAR 2 5 1993 Co. name Nusco Pipe & Supply Ltd. Signed [Signature]  
(Date) (Name of Manufacturer)

Date MAR 2 5 1993 Signed [Signature] Commissions Alberta  
(Date) (Name of Authorized Inspector) (Name of State/Province)