

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

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Q2763833

1. Manufactured and certified by NUSCO Pipe & Supply Ltd. 1604 - 8th Street Nisku, Alberta T0C 2G0
(Name and address of manufacturer)

2. Manufactured for BLUE RANG RESOURCES LTD. 915-706-7th AVE. S.W. CALGARY, ALTA T2P 1Z1
(Name and address of purchaser)

3. Location of installation 06-07-87-12 W6M Clear Prairie, Alta.
(Name and address)

4. Type VERT SEPARATOR 6000D-V01 (Part's serial No.) K-9069.21 (Drawing No.) D0128-200 REV 0 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

10. N/A Address (Dist) N/A Code Case No. N/A Special Service per UG 120(f) N/A

6. Shell: SA-106-B 0.500 Nom. Thk. (in.) 0.125 Cor. Allow. (in.) 12 3/4" O.D. 7" - 6" Length (overall) (ft. & in.)

7. Sg.: N/A N/A 100 1.0 1.0 WELD, SVE/BUT RT-1(FULL) 1
Long. (Welded, Dbl. Spt., Lap, Butt) R.T. (Spot or Full) E.T. (in) H.T. Temp. (F) Time (hr) Spec. No. (Grades)

8. Heads: (a) Matl. SA-516-70N (b) Matl. SA-516-70N (Spec. No., Grades)

Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a) Top	0.479"	0.125"	--	--	2:1	--	--	--	CONCAVE
(b) Bottom	0.479"	0.125"	--	--	2:1	--	--	--	CONCAVE

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

9. MAWP 720 psi at max. temp. 120 °F at 720 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	Matl	Nom Thk	Reinforcement Matl	How Attached	Location
See Attached								
U4 Form								

11. Supports: Skirt YES (Yes or no) Lugs N/A (No) Legs N/A (No) Other N/A (Describe) Attached WELDED TO HEAD (b) (Where: Show)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished; the following items of the report: N/A

- Pressure Relief Valve Will Be Installed By Customer
- Capacity - 6.5 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 2 1993 Co. name NUSCO PIPE & SUPPLY LTD. Signed [Signature] (Apprentice)

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 2 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 2 1993 Signed [Signature] (Authorized Inspector)

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

(A) 2763833

1. Manufactured and certified by Nusco Pipe & Supply Ltd. 1604-8th Street Nisku, Alberta T0C 2G0

2. Manufactured for BLUE RANGE RESOURCES LTD. 905-706 - 7th AVE. S.W. CALGARY, ALTA T2P 0Z1

3. Location of installation 06-07-87-12 W6M Clear Prairie, Alta.

4. Type VERT SEPARATOR 6000D-V01 K-9059-21 D0128 J.BREVLO 1993

Date Report
Item Number

Remarks

10 NOZZLES, INSPECTION AND SAFETY VALVE OPENINGS:

PURPOSE	NO.	DIA.	TYPE	MAT'L	NOM THICK	REIN MAT'L	ATTACH LOCATION
N1 INLET	1	2"	300# RWV	SA-106-B	XXH	NR	WELD TO SHELL
N2 OUTLET	1	2"	300# RWV	SA-106-B	XXH	NR	WELD TO TOP HEAD
N3 DRAIN	1	2"	300# RWV	SA-106-B	XXH	NR	WELD TO BOT. HEAD
N4 WATER OUT	1	2"	300# RWV	SA-106-B	XXH	NR	WELD TO SHELL
N5 A/B L.G./INSP.	2	2"	300# RWV	SA-106-B	XXH	NR	WELD TO SHELL
N6 WATER L.C.	1	3"	300# RWV	SA-106-B	XXH	NR	WELD TO SHELL
N7 H.C. OULET	1	2"	300# RWV	SA-106-B	XXH	NR	WELD TO SHELL
N8 A/B H.C. L.G.	2	2"	300# RWV	SA-106-B	XXH	NR	WELD TO SHELL
N9 H.C. L.C.	1	3"	300# RWV	SA-106-B	XXH	NR	WELD TO SHELL
N10 LSH	1	4"	300# RWV	SA-106-B	XXH	NR	WELD TO SHELL
N11 TEMP. IND.	1	2"	300# RWV	SA-106-B	XXH	NR	WELD TO SHELL
N12 PRESS. IND.	1	2"	300# RWV	SA-106-B	XXH	NR	WELD TO SHELL
N13 P.S.V.	1	2"	300# RWV	SA-106-B	XXH	NR	WELD TO SHELL
N14 PSV/L	1	2"	300# RWV	SA-106-B	XXH	NR	WELD TO SHELL
N15 INSPECTION	1	2"	300# RWV	SA-106-B	XXH	NR	WELD TO SHELL

Date MAR 2 2 1993

Co. name Nusco Pipe & Supply Ltd. Signed [Signature]

Date MAR 2 2 1993

Signed [Signature] Commitments Alberta