

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 3182406

- Manufactured and certified by WELLS-HALL FABRICATION & CONSTRUCTION LTD., 6115-30 Street N.W., EDMONTON, AB T6J 1J8
- Manufactured for CANADIAN NATURAL RESOURCES CALGARY, AB
- Location of installation STOCK (Pkg No. 20)
- Type VERT CONTACTOR 96-8306-C M2316.21 33-A-6979-6 (1996)

The chemical and physical properties of all parts must 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.

- Shell: SA-516-70 MT 1.125" 0.125" 21.75" 32'-10 1/2"
- Seams: EQUIN. DBL BUTT FULL 100% 1150°F 1HR 10MIN EQUIN DBL BUTT FULL 4
- Heads: (a) MATL SA-516-70 MT (b) MATL SA-516-70 MT

Part Name	Material	Thickness	Radius	Light Ratio	Approx. Angle	Reinforcement	Flat Diameter	Shape
(a) TOP	SA-516-70	0.125"	2:1			N/R		CONCAVE
(b) BTM	SA-516-70	0.125"	2:1			N/R		CONCAVE

- MAWP 1440 psi at max temp 1440 psi Hydro pneu. or comb test pressure (54°C) 130
- Nozzles, inspection and safety valve openings: (9228X1a) -20 F at

Purpose	No	Diam or Size	Type	Matl	Nom. Thk	Reinforcement	How Attached	Location
INLET	1	4"Ø	RFWN	SA-105N	600"	N/R	WELDED	SHELL
OUTLET	1	4"Ø	RFWN	SA-105N	600"	N/R	"	TOP HEAD SHELL
DRAIN/PSV	2	2"Ø	RFWN PIPE	SA-105N/SA-106B	600" SCH 160	N/R	"	SHELL BTM HD
WATER INLET	2	3"Ø	RFWN	SA-105N	600"	N/R	"	SHELL
BTM GLYCOL COIL INLET	3	1"Ø	RFWN PIPE	SA-105N/SA-106B	600" SCH XXH	N/R	"	"
WATER OUT/PT. LG.	4	1"Ø	RFWN PIPE	SA-105N/SA-106B	600" SCH XXH	N/R	"	"
GLYCOL OUT	1	1"Ø	RFWN PIPE	SA-105N/SA-106B	600" SCH XXH	N/R	"	"
T.I.	1	1 1/2"Ø	RFWN PIPE	SA-105N/SA-106B	600" SCH XXH	N/R	"	"

- Supports Skirt YES Lugs 2(LIFT) Legs N/A Other N/A Attached NEEDED TO BTM HD
- Remarks: Manufacturer's Partial Data Reports properly identified and signed by N/A Commissioned Inspectors have been furnished for the following items of the report:

24"Ø X 30' 5/8" X 14 HO 2 1/2" X 1/8" GA. VERT. CONTACTOR. HYDROTESTED HORIZONTAL. IMPACTS EXCEPT PER UG-200. YUGS-66. RADIOGRAPHY PER UG-100. EXCEPT CR. CR ULTRASONICALLY INSPECTED PER API 2. AS BUILT DWG. 33-A-8306-0

CERTIFICATE OF SHOP COMPLIANCE WT: 10,700 lbs VOL: 79.56 ft<sup>3</sup>

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. 19595 expires July 31 19 96

Date May 3/96 Co Name WELLS-HALL FABRICATION & CONSTRUCTION LTD. Signed R. Wells

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by WELLS-HALL FABRICATION & CONSTRUCTION LTD. at EDMONTON, 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 Safety Association

have inspected the component described in this Manufacturer's Data Report on May 18 19 96 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 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 in connection with this inspection.

Date May 14/96 Signed David R. Wells Commissions Alberta