

HBSA

MANUFACTURER'S DATA REPORT FOR INDIRECT FIRED HEATER COILS

W.S. V. 29
N.S. 29

(A) No. 408818

Manufactured by BLACK, SIVALLS & BRYSON (CANADA) LTD. 2314 - 8 ST. NISKU, AB T9E 7Z2

Manufactured for RIGEL OIL & GAS LTD. 1900, 255 - 5 AVE. S.W. CALGARY, AB T2P 3G6

Ultimate Owner SAME AS ABOVE

Location of Installation HYTHE ALBERTA

Mfg. Serial No. 97910055 V2 Code: ASME B31.3, Edition 1996 Addenda ----

Drawing Number 32-CM-10643 Year Built 1997 Intended Service HYDROCARBON

a. Material Specifications	<u>SA-106-B</u>	<u>FLANGES</u>	<u>1500#</u>
	<i>Coil</i>	<i>Ends (Flanges/N.P.T.)</i>	<i>Rating</i>
b. Material Specifications	<u>SA-106-B</u>	<u>FLANGES</u>	<u>600#</u>
	<i>Coil</i>	<i>Ends (Flanges/N.P.T.)</i>	<i>Rating</i>

a. Diameter	<u>2.375" OD</u>	Nom. Thickness	<u>.436"</u>	O/A Length	<u>11'-11"</u>	C.A.	<u>.125"</u>
b. Diameter	<u>2.375" OD</u>	Nom. Thickness	<u>.343"</u>	O/A Length	<u>11'-11"</u>	C.A.	<u>.125"</u>

a. Maximum Working Pressure	<u>3375 PSIG</u>	RPX at Maximum Temperature	<u>200° F</u>	XX
b. Maximum Working Pressure	<u>1350 PSIG</u>	RPX at Maximum Temperature	<u>200° F</u>	XX

a. Hydrostatic Test Pressure	<u>5075 PSIG</u>	RPX C.R.N.	<u>B59.2134578T</u>
b. Hydrostatic Test Pressure	<u>2025 PSIG</u>	RPX C.R.N.	<u>B59.2134578T</u>

Heating Surface 60 SQ. FT. Radiography FULL (Random, % or Full)

Volume 1.4 CIL. FT. P.W.H.T. YES

Remarks REGISTERED DRAWING NO. 32-CM-3596-A

CERTIFICATE OF COMPLIANCE

We certify that the statements in this report are correct and that all details of design, material, construction, and workmanship of this coil bundle are in accordance with Registered Design No. B59.2134578T

Date MAR 27-97 Signed [Signature] For BLACK, SIVALLS & BRYSON (CANADA) LIMITED
(Representative) (Manufacturer)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, a duly authorized Safety Codes Officer employed by The Alberta Boilers Safety Association have inspected the above Heater Coils and state that, to the best of my knowledge and belief, the construction is in accordance with the Alberta Safety Codes Act and Regulations.

Date Mar 27/97 Signed [Signature]