



MANUFACTURER'S DATA REPORT FOR INDIRECT FIRED HEATER COILS

(A) No. 478628

Manufactured by Black, Sivalls & Bryson 2314-8St., Nisku, AB., 79E 7Z2

Manufactured for Talisman Energy Inc. 400, 10201 Southport Road S.W. Calgary, AB. T2P 3W1

Ultimate Owner Same as above

Location of Installation Unknown

Mfg. Serial No. 011044-003 Code: ASME B31.3, Edition 1999 Addenda 2000

Drawing Number 30-CM-12244 Year Built 2001 Intended Service Hydrocarbons

a. Material Specifications SA-333-6 SA-350-LF2(RFWN)
Coil Ends (Flanges/N.P.T.) 1500#
Rating

b. Material Specifications SA-106-B SA-105-N(RFWN)
Coil Ends (Flanges/N.P.T.) 900#
Rating

a. Diameter 3"NPS Nom. Thickness 0.600" O/A Length 15'-8" C.A. 0.125

b. Diameter 3"NPS Nom. Thickness 0.300" O/A Length 15'-8" C.A. 0.125

a. Maximum Working Pressure 23267 kPa at Maximum Temperature 93 °C

b. Maximum Working Pressure 10790 kPa at Maximum Temperature 93 °C

a. Hydrostatic Test Pressure 34901 kPa C.R.N. B-60.2134578T

b. Hydrostatic Test Pressure 16185 kPa C.R.N. B-60.2134578T

Heating Surface 176 SQ. FT. Radiography FULL (Random, % of Full)

Volume 7.95 CU.FT P.W.H.T. 60 MIN. @ 1125 F

Remarks pg. 1 of 1
Impact exempt per ASME B31.3 fig 323.2.2

Registered coil drwg no. 32-CM-3596-Rev.C

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.

Date July 4/01 Signed Matt Koss For Black, Sivalls & Bryson (Canada)
(Representative) (Manufacturer) L.H.

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 July 4/01 Signed [Signature]