



the pressure equipment safety authority

## MANUFACTURER'S DATA REPORT FOR INDIRECT FIRED HEATER COILS

AB-28 2006-02

PARTIAL ☐A# **A 591079**

Manufactured By: Nusco Manufacturing - A Division of Altus Energy Services Ltd. 1604-8th Street Nisku, Alberta T9E 7S6

Manufactured For: Husky Oil Operations Limited 707-8th Avenue SW Calgary, Alberta T2P 1H5

Ultimate Owner: Husky Oil Operations Limited 707-8th Avenue SW Calgary, Alberta T2P 1H5

Location of Installation: Columbia 09-30-45-15 W5M

Manufacturer's Serial No.	Construction Drawing No.	CODE: ASME B31.3			Year Built
22331-210	Wo22331to22334-32-502 Rev.0	Edition	2006	Addenda	2008

## CONSTRUCTION

	Coil ID/Purpose	Design Pressure	Design Temp	Design Minimum Temp	Corrosion Allowance	Registered Drawing No.	CRN
a	Preheat Coil	5031 PSIG	200°F	-50°F	0.125"	NUSCO STD COILS 3 REV.A	T3040.213
b	Reheat Coil	2025 PSIG	200°F	-50°F	0.125"	NUSCO STD COILS 3 REV.A	T3040.213
c	-	-	-	-	-	-	-
d	-	-	-	-	-	-	-
e	-	-	-	-	-	-	-

## COIL

Tubes			End Closures				Openings			
			Return Bend		Flanges					
	Mat'l Spec.	Diameter	Thickness	Mat'l Spec.	Thickness	Mat'l Spec.	Rating	Mat'l Spec.	Size/Type	Rating
a	SA-333-6	3"	0.600"	SA-420-WPL6	0.600"	SA-350-LF2 CL1	CL 2500	-	-	-
b	SA-333-6	3"	0.438"	SA-420-WPL6	0.438"	SA-350-LF2 CL1	CL 900	-	-	-
c	-	-	-	-	-	-	-	-	-	-
d	-	-	-	-	-	-	-	-	-	-
e	-	-	-	-	-	-	-	-	-	-

## HEADERS/MANIFOLDS

	Purpose	Size	Shell		Ends		Openings			
			Mat'l Spec.	Thickness	Mat'l Spec.	Thickness	No	Mat'l Spec.	Size/Type	Rating
f	-	-	-	-	-	-	-	-	-	-
g	-	-	-	-	-	-	-	-	-	-

## TEST PRESSURE, NDE, POSTWELD HEAT TREATMENT AND SIZE

	Hydrostatic Test Pressure	Radiography (100% or % Random)	Other NDE (MT) (PT) (UT)	Postweld Heat Treatment		Overall Length	Heating Surface	Volume
				Temp.	Time			
a	7547 PSIG	100% Severe	MT, HT	1150°F	60 min.	20'-6"	105 FT2	3.26 FT3
b	3330 PSIG	100% Severe	MT, HT	1150°F	60 min.	20'-6"	105 FT2	4.32 FT3
c	-	-	-	-	-	-	-	-
d	-	-	-	-	-	-	-	-
e	-	-	-	-	-	-	-	-
f	-	-	-	-	-	-	-	-
g	-	-	-	-	-	-	-	-

IMPACT TESTING: Impact Test Exempt As PER B31.3 Table 323.2.2A

REMARKS: Owners responsibility to install &amp; maintain adequate pressure relief valve. Coil is not subject to severe cyclic conditions.

## 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 the above Provincial Registered Design.

Date October 3, 2008

Signed

(Representative)

For Nusco Manufacturing A Division of Altus Energy Services Ltd.

(Manufacturer)

## CERTIFICATE OF SHOP INSPECTION

I, the undersigned, a duly authorized Safety Codes Officer employed by ABSA has 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 October 3, 2008

Signed

AB95A