



the pressure equipment safety authority

# MANUFACTURER'S DATA REPORT FOR INDIRECT FIRED HEATER COILS

AB-28 2006-02

PARTIAL

A# 599246

Manufactured By: NWP Industries Inc. 4017 60th Ave, Innisfail AB, T4G1S2.

Manufactured For: Murphy Oil Company, Ltd. 1700-555-4th Avenue S.W. Calgary, Alberta T2P 3E7

Ultimate Owner: Murphy Oil Company, Ltd. 1700-555-4th Avenue S.W. Calgary, Alberta T2P 3E7

Location of Installation: Murphy Oil Company, Ltd. 1700-555-4th Avenue S.W. Calgary, Alberta T2P 3E7

Manufacturer's Serial No.	Construction Drawing No.	CODE: ASME B31.3			Year Built
		Edition	Addenda		
NWP-1878-01	100482 Rev 2	2008			2010

## CONSTRUCTION

Coil ID/Purpose	Design Pressure	Design Temp	Design Minimum Temp	Corrosion Allowance	Registered Drawing No.	CRN
a PS-100/Coil A	5031 psi	200 F	-20 F	1/8"	BDD-300A Rev 2	P-9403.213
b PS-101/Coil B	1350 psi	200 F	-20 F	1/8"	BDD-300 Rev 10	P-9407.213
c PS-102/Coil C	5031 psi	200 F	-20 F	1/8"	BDD-300A Rev 2	P-9403.213
d PS-104/Coil D	1350 psi	200 F	-20 F	1/8"	BDD-300 Rev 10	P-9407.213
e						

## COIL

	Tubes			End Closures				Openings		
	Mat'l Spec.	Diameter	Thickness	Return Bend		Flanges		Mat'l Spec.	Size/Type	Rating
				Mat'l Spec.	Thickness	Mat'l Spec.	Rating			
a	SA-333-6	3"	XXH	SA-420-WPL6	XXH	SA-350-LF2	CL 2500	na	na	na
b	SA-333-6	3"	XH	SA-420-WPL6	XH	SA-350-LF2	CL 600	na	na	na
c	SA-333-6	3"	XXH	SA-420-WPL6	XXH	SA-350-LF2	CL 2500	na	na	na
d	SA-333-6	3"	XH	SA-420-WPL6	XH	SA-350-LF2	CL 600	na	na	na
e										

## HEADERS/MANIFOLDS

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

## 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 psi	100%	Visual	1150F	60 MIN	201"	145.90sq.ft.	4.53 cu.ft.
b	2025 psi	100%	Visual	1150F	60 MIN	211"	58.01 sq.ft.	1.87 cu.ft.
c	7547 psi	100%	Visual	1150F	60 MIN	201"	145.90 sq.ft.	4.53 cu.ft.
d	2025 psi	100%	Visual	1150F	60 MIN	211"	58.01 sq.ft.	1.87 cu.ft.
e								
f								
g								

IMPACT TESTING: Exempt per table 323.2.2 Col A

REMARKS: \_\_\_\_\_

## 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 July 26/10 Signed [Signature] For NWP Industries Inc  
(Representative) (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 July 26, 2010 Signed [Signature] A3130