



the pressure equipment safety authority

MANUFACTURER'S DATA REPORT FOR INDIRECT FIRED HEATER COILS

AB-28 2006-02

PARTIAL

A# 605344

Manufactured By:	NWP Industries Inc. 4017 60th Ave, Innisfail AB. T4G-1S9
Manufactured For:	Murphy Oil Corporation, Ltd. 1700-555-4th Avenue S.W. Calgary, Alberta T2P 3E7
Ultimate Owner:	Murphy Oil Corporation, Ltd. 1700-555-4th Avenue S.W. Calgary, Alberta T2P 3E7
Location of Installation:	Murphy Oil Corporation, Ltd. 1700-555-4th Avenue S.W. Calgary, Alberta T2P 3E7

Manufacturer's Serial No.	Construction Drawing No.	CODE: ASME B31.3		Year Built
NWP-08118-002	08118 Rev 1	Edition	2008	Addenda
				2011

CONSTRUCTION

Coil ID/Purpose	Design Pressure	Design Temp	Design Minimum Temp	Corrosion Allowance	Registered Drawing No.	CRN
a PREHEAT COIL A	5031 PSIG	200F	-20F	1/8"	BDD-300A REV 2	P9403.213
b REHEAT COIL B	1350 PSIG	200 F	-20F	1/8"	BDD-300 REV 10	P9407.213
c REHEAT COIL C	1350 PSIG	200F	-20F	1/8"	BDD-300 REV 10	P9407.213
d PREHEAT COIL D	5031 PSIG	200F	-20F	1/8"	BDD-300A REV 2	P9403.213
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" NPS	SCH XXH	SA-420-WPL6	SCH XXH	SA-350-LF2 CL 1	CL 2500	NA	NA	NA
b	SA-333-6	3" NPS	SCH XH/80	SA-420-WPL6	SCH XH/80	SA350-LF2-CL1	CL 600	NA	NA	NA
c	SA-333-6	3" NPS	SCH XH/80	SA-420-WPL6	SCH XH/80	SA-350-LF2 CL 1	CL 600	NA	NA	NA
d	SA-333-6	3" NPS	SCH XXH	SA-420-WPL6	SCH XXH	SA-350-LF2 CL 1	CL 2500	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
g	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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%		1160F	1 hour	196 3/8"	83.8 sq.ft.	2.64 cu.ft
b	2025 PSIG	100%		1160F	1 hour	210 1/8"	31.9 sq. ft.	1.59 cu ft.
c	2025 PSIG	100%		1160F	1 hour	210 1/8"	31.9 sq. ft	1.59 cu ft.
d	7547 PSIG	100%		1160F	1 Hour	196 3/8"	83.8 sq.ft.	2.64 cu.ft
e								
f								
g								

IMPACT TESTING: Exempt per table 323.2.2 column A

REMARKS: JO# 08118

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 Nov 25/11 Signed R.M. Spence 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 Nov 25/11 Signed Joe Tworek NB 12995 A,B AB 261