**MANUFACTURER'S DATA REPORT
FOR INDIRECT FIRED
HEATER COILS**(A) No. 495575Manufactured by Priority Projects Ltd. 1603-8th st. Nisku Alberta T9E-7S7Manufactured for Priority Projects Ltd. 1603-8th st. Nisku Alberta T9E-7S7Ultimate Owner Priority Projects Ltd. 1603-8th st. Nisku Alberta T9E-7S7Location of Installation Stock EquipmentMfg. Serial No. 5790 Code: ASME B31.3, Edition 2002 Addenda _____Drawing Number 750STDHC Rev "0" Year Built 2003 Intended Service Sweeta. Material Specifications SA106B Smls. SA105N Flg. 1500ANSI
Coil *Ends (Flanges/N.P.T.)* *Rating*b. Material Specifications SA106B Smls. SA105N Flg. 1500ANSI
Coil *Ends (Flanges/N.P.T.)* *Rating*a. Diameter 2.375" Nom. Thickness .218" O/A Length 134" C.A. 0b. Diameter 2.375" Nom. Thickness .218" O/A Length 134" C.A. 0a. Maximum Working Pressure 23,270 kPa at Maximum Temperature 93 °Cb. Maximum Working Pressure 23,270 kPa at Maximum Temperature 93 °Ca. Hydrostatic Test Pressure 34,906 kPa C.R.N. F-3086.231b. Hydrostatic Test Pressure 34,906 kPa C.R.N. F-3086.231Heating Surface 82 Sq. Ft. Radiography 5% (Random, % or Full)Volume 2.6 Cu. Ft. P.W.H.T. NoneRemarks Impact exemption per. para. 323.2.2b**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. F-3086.231.

Date 13 JUNE 2003 Signed  For Priority Projects Ltd.
(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 2003-JUNE-13 Signed  AB#132

Heater Coils

PRIORITY PROJECTS

JOB #

5790

CRN

F-3086.23

DATE

9 MAY 03

OPERATION

DRAWING NUMBER:

Q.C. PERSONNEL

DATE

A.I.

DATE

DRAWINGS APPROVED
BY GOVERNMENTMATERIAL CHECKED
AGAINST DRAWING

MILL TEST CHECKED

PIPING LAYOUT

PIPE ORIENTATION
& RATINGS
FITTINGS

RADIOGRAPHY AND OTHER N.D.E.

HYDROSTATIC TEST 5063 PSI

NAME PLATE (P)

~~EXTERNAL INSPECTION~~ P.W.H.T.

WELDERS I.D. & WELD SIZE

EXTERNAL AFTER COMPLETION
OF ALL WELDING

DATA REPORTS

B.	C.
B.	C.
B.	C.
B.	C.
B.	C.

COIL LAYOUT

SPEC

HEAT NUMBER

THICKNESS

A. FITTING MATERIAL 2" 180° L.R.B.	SA 234 NPB.	28096	.218
B. FLG. MATERIAL 2" 1500# R.F.W.N.	SA 105 N	36666	.218
C. PIPE MATERIAL 2" SMK S	SA 106 B	16716	.218
D. FLANGE MATERIAL 1/4" PLATE	G 40	569436	.250

W

RT 5% 12 PASS. 750MM

6&6

Ⓐ 495575

F-3086.231

750STDHC

5790

2003

23270 93

3375 200

.218

1500 ANSI

**602 – 15A Avenue
Nisku, Alberta T9E 7R9
Ph: 955-8601, Fax: 955-8603**

REPORT No. **A 22588**

CUSTOMER	PRIORITY PROJECTS LTD	DATE	JUNE 5, 2003
BILLING ADDRESS		Job No.	PPL 5790
JOB LOCATION	CIA SHOP- NISKU	APPLICABLE CODE	B31.3 NORMAL
INSPECTION ON	10% COIL	MATERIAL TYPE	PI PO. 060308-5790

DAY	SUBSISTENCE	TYPE & SIZE OF FILM	TRAVEL TO	IN	OUT	TRAVEL FROM	MILEAGE	HOURS	PAGE
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[illegible]

WS — Welders Symbol	NF — Non Fusion	S — Slag	LC — Low Cover	W — Windows	C — Crater	I — Icicles	1 — Slight
# — Procedure	IP — Incomp Pen	BT — Bum Thru	UC — Undercut	HL — High Low	P — Porosity	CK — Crack	2 — Medium
							3 — Severe

[illegible]

I AM IN FULL AGREEMENT WITH ALL ABOVE DETAILS

CUSTOMER'S REPRESENTATIVE

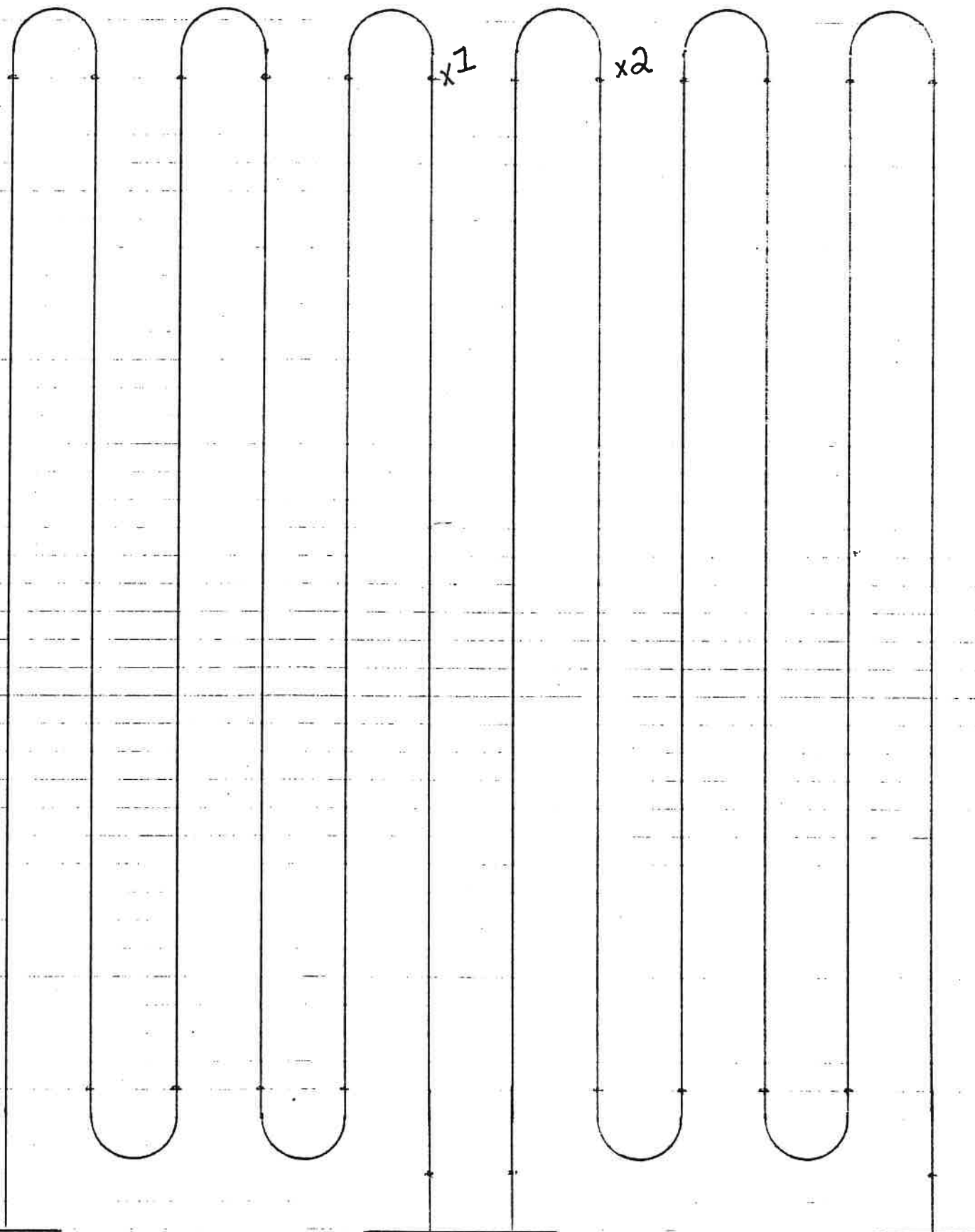
☐ ONE MAN UNIT

☒ TWO MAN UNIT

RADIOGRAPHER BOB WANLIN

QUALIFIED OPERATOR KERI WANLIN

Job #5790

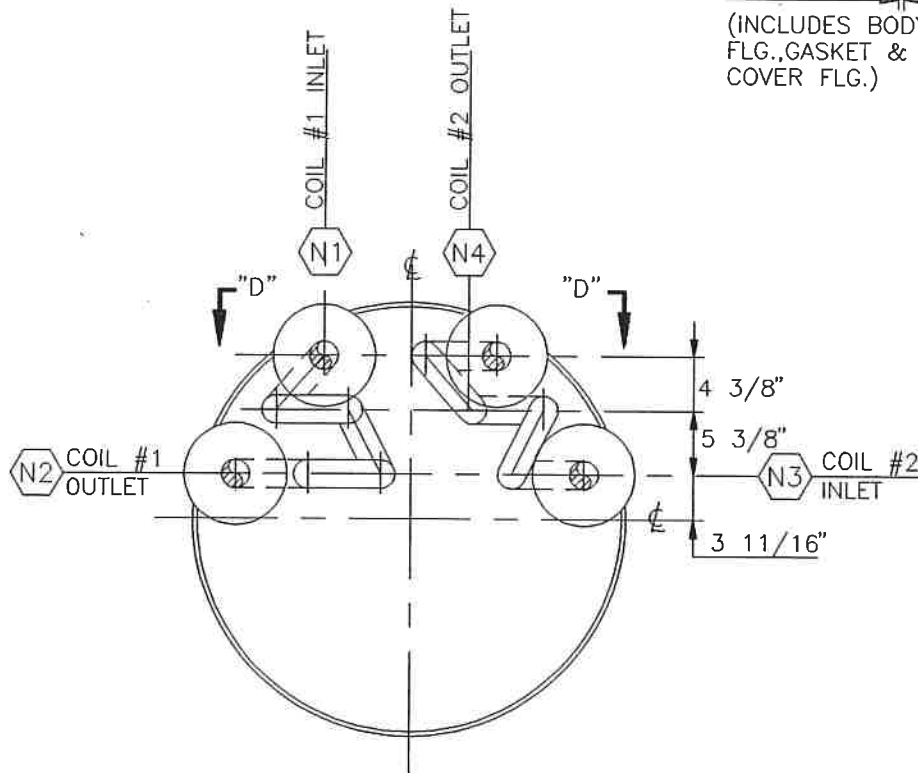
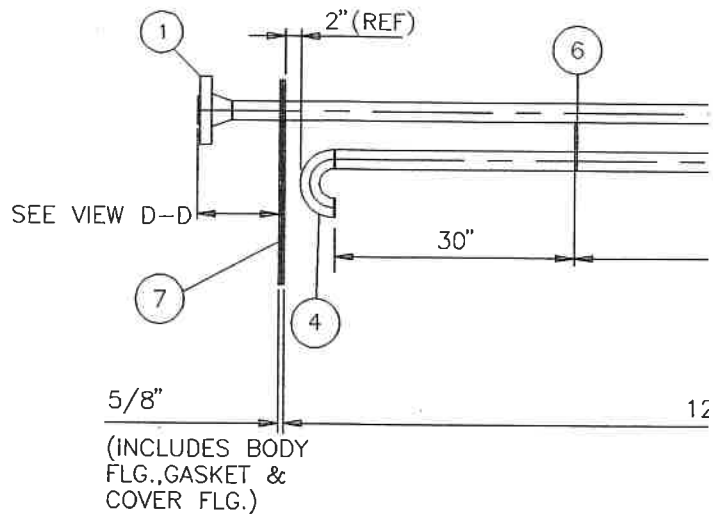


FACING COIL BUNDLE IN SHELL

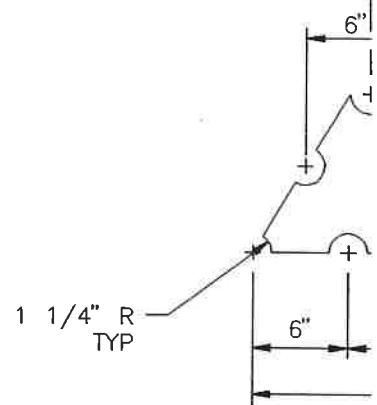
ISSUED FOR CONSTRUCTION

DATE 9 MAY 2003

JOB # 5790



COIL END VIEW



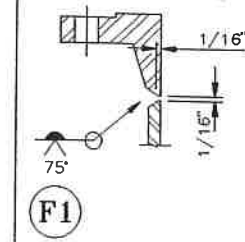
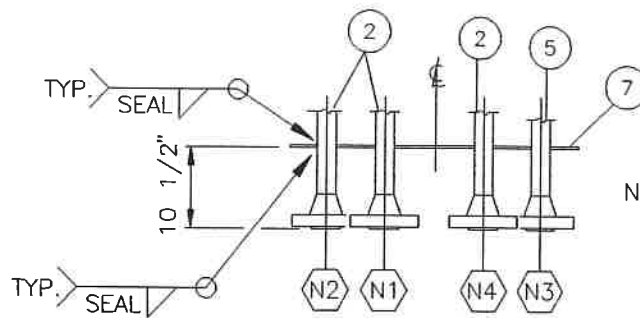
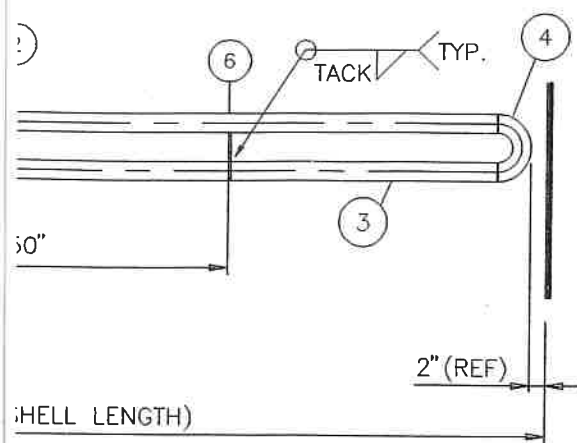
ITEM #6

BILL OF MATERIAL

ITEM	QTY.	DESCRIPTION	MATERIAL	WELD
1	4	2"-1500#ANSI RFWN FLANGE (SCH.80 BORE)	A-105N	F1
2	3	2"-SCH.80 PIPE X 127 1/2" LG	A-106-B	F1
3	8	2"-SCH.80 PIPE X 113 1/2"	A-106-B	F1
4	10	2"-SCH.80 LR BW 180° RETURN	A-234-WPB	F1
5	1	2"-SCH.80 PIPE X 126 1/2" LG	A-106-B	F1
6	2	1/4"PL X 9 3/4" X 29" LG	A-36	
7	1	1/4"PL X 40" O.D.	G-40	

DESIGN AND
THIS COIL DE
* - OPTION.
DESIGN PRES:
DESIGN TEMP.
STRESS RELIE
RADIOGRAPHY
C.A.
HYDROTEST P
ESTIMATED WE
SURFACE ARE
VOLUME
NOTE: IMPACT

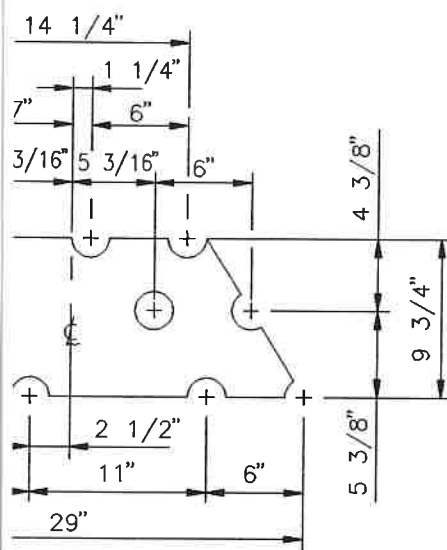
0 99 03 17 Fc
NO. DATE



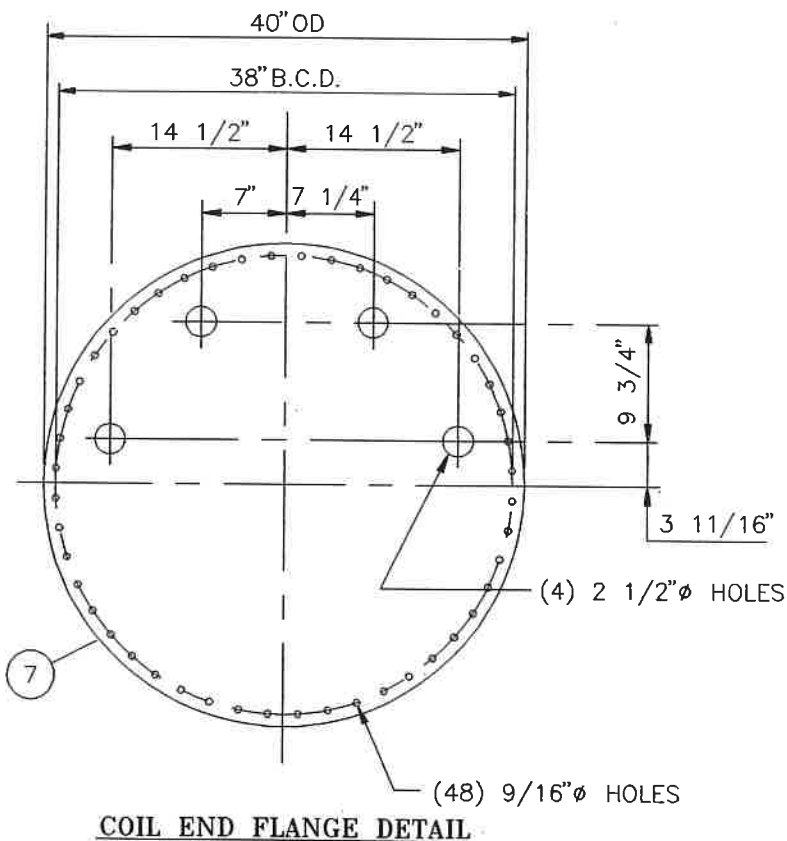
NOTE: N3 1/2" LONGER
THEN N4

**VIEW D-D
PLAN**

COIL LAYOUT



PORT PLATE DETAIL



DESIGN DATA

CONFORM TO A.S.M.E. B 31.3, 2002 ED.
REGISTERED UNDER CRN# F-3086.231(AB, SASK.& BC)

COIL #1	COIL #2
3375 PSIG	3375 PSIG
200°F/-20°F	200°F/-20°F
NO(30 MIN. @ 1150°F*)	NO(30 MIN. @ 1150°F*)
5% (100% *)	5% (100% *)
0	0
5063 PSIG	5063 PSIG
442 LBS	442 LBS
41 SQ.FT	41 SQ.FT
1.313 Cu.Ft.	1.313 Cu.Ft.

OPTION PER PARA. 323.2.2B



PRIORITY PROJECTS LTD.

BOX 638, 1603-8 STREET, NISKU, ALBERTA T0C 2G0
TELEPHONE: (780) 955-3320 FAX: (780) 955-25561

750,000 BTU/Hr. HEATER COIL
COIL #1: 2"-SCH 80 6 PASS
COIL #2: 2"-SCH 80 6 PASS

INSTRUCTION	SPB	DRAWN	CHECK	DESIGN	APPR.	CUSTOMER NAME	SCALE	DRAWING NUMBER	REV.
REVISIONS						STOCK	3/4" = 12"	750STDHC	0
		DRAFTING		ENGINEERING		CUSTOMER DWG NUMBER			



INSPECTION CERTIFICATE

AWAJI SANGYO (THAILAND) CO., LTD.

81 MOO 4, PRAKASA ROAD, TAMBOL BANGMUANG, AMPHUR MUANG

SAMUTPRAKARN THAILAND 10270, Tel: (662) 701-5226,

MADE FROM SEAMLESS STEEL PIPE

Purchaser: ALLIED FITTING CANADA

Date: SEPTEMBER 18, 2002

Certificate No.: T02-9595

Order No.	Job No.	Product		Raw Pipe Maker															
1004690AWD/WPB/1		CARBON STEEL BUTT WELDING FITTINGS		NIPPON STEEL															
Inspection Standard	Raw Material Standard	Appearance	GOOD	GOOD															
ASME B16.9 & B16.28	ASTM A234-00a WPB																		
NACE MR0175-2000	ASME SA234 except nuclear usage																		
Manufacturing No.	Product code	Material	Article & Size	Quantity															
28096		WPB	XS 180 LONG RADIUS ELBOW 2"	100 Pcs.															
				"ALL FITTING MANUFACTURED BY AWAJI SANGYO(THAILAND) CO., LTD. ARE PRODUCED FROM A106 SEAMLESS PIPE"															
Specification	Chemical Composition (%)																		
Min.	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	Nb	Al	C.E.	*1		Mechanical Test		Hardness	Starting Material:
Max.	x100	x100	x100	x1000	x1000	x100	x100	x100	x100	x100	x1000	x1000	x100	x100	Y.S.	T.S.	E	%	ASTM A106 Grad B
	-	10	29	-	-	-	-	-	-	-	-	-	-	-	240	415	24	-	
Pipe Charge No.	30	-	106	50	58	40	40	40	15	8	20	-	50	-	-	585	-	197	
M94798	21	21	45	9	4	3	1	2	2	0	0	2	30	292	478	53	GOOD		

ELBOW / Forming temperature and cooled in still air: 750°C - 850°C

TEE REDUCER & CAP / Normalizing: 900°C

We hereby certify that the material described herein has been duly inspected and conforms to the standard as specified above.

*1 Y.S. = Yield Strength, T.S. = Tensile Strength, E = Elongation,

ACCORDING TO DIN 50049/3/1B

EN10204 3.1B

AT-24 (2)



Surveyor to

Chief of Inspection Section S.THANEE

**WESTERN FLANGE AND MANUFACTURING LTD.
EDMONTON, ALBERTA, CANADA
MILL TEST CERTIFICATE**

Date: April 29, 2003



Manufacturers Date: 3/6/2002

ITEM	QTY	DESCRIPTION	MATERIAL	HEAT CODE
		FLANGE 2" 1500# RAISED FACE WELD NECK XS	SA105/A105N ASTM/00 ASME/98 ANSI B16.5 NACE MR0175	36666.C2/23

HEAT TREATMENT

NORMALIZED FOR 11/2 HR - COOLING FROM 900C IN STILL AIR

CHEMICAL ANALYSIS

	HEAT CODE	MILL	HEAT #	C	Mn	P	S	SI	Cu	NI	
HEAT		GALPERTI	36666.C2/23	0.170	1.190	0.009	0.008	0.290	0.160	0.100	
PRODUCT/ CHECK											
				Cr	Mo	V	Nb/Cb	B	N	CE	
HEAT				0.160	0.020	0.020	0.001			0.425	
PRODUCT/ CHECK											

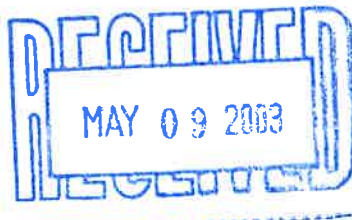
PHYSICAL

						CHARPY RESULTS (JOULES)				
	TENSILE (MPA)	YIELD (MPA)	ELONGATION %	REDUCTION OF AREA %	HARDNESS (HB)	1st	2nd	3rd	AVG	TEST TEMP.
HEAT	541	327	26.2	68.4	164	103	108	110		M50C


I hereby certify that the contents of this document are correct according to the records
in possession of this company.

Fred Hadley
Quality Assurance

Fred Hadley
Quality Assurance



5790
JAM

VALLOUREC & MANNESMANN TUBES V & M FRANCE Tuberies de St Sauve rue du Galibat ZI n°4 - BP 2 59680 Saint-Sauve France tel.: 03.27.23.13.01 fax: 03.27.23.15.63		MATERIAL TEST REPORT INSPECTION CERTIFICATE EN 10204 3.1.B		ISO 9001 (A03)IR&: 26-03-044051 1 / 3 (A08)N°V&M: LA0653/04																																																																														
<p>(A06) Purchaser : CCTF DIVISION OF EMCO LTD</p> <p>(A07) Order n° : VM0920 / 4864761-00</p> <p>(A08) SEAMLESS STEEL PIPE, HOT FINISHED (KILLED STEEL)</p> <p>(A09) HOT FINISHED NORMALIZED CONDITION 990°C (1742°F) min oil-air</p> <p>ENDS BEVELLED 30° ANTI-RUST COATING DRY VARNISH</p> <p>(B01) Specification : API 5L (01/01/00) PSL 1+ASTM A 106 (1003/99)+ASME SA 106 (01/07/01)+GRADE B +CSA Z245-1 (01/03/99)+GRADE 290 CAT.1 +NACE MR0175 (01/04/02)+CECN-3 REV.D+ASTM A 530 (10/09/99)+ASME SA 530 (01/07/01)+ASME SECT. II PART A PART D (07/01)+ADD</p> <p>(B06) HBT</p> <p>Stencil marking:  V&M FRANCE 5L 0061 API DATE OF MARKING A5A106 Z245-1 2 3/8 B + 290 PSL1 S 2500 PSI HT HEAT NUMBER SCH 80 2 3/8 X 0.218 VM0920 / 4864761-00 LENGTH</p>																																																																																		
<p>QUANTITY PER ITEM</p> <table border="1"> <thead> <tr> <th>Y/R</th> <th>O/R</th> <th>(B11)-B12) Size</th> <th>(B13) single length</th> <th>(B10) Quantity</th> <th>(B14) (B09) Weight item ref. lb</th> <th>(B08) Heat</th> </tr> </thead> <tbody> <tr> <td>(04)</td> <td>(04)</td> <td>NPS 2 Schedule 80 60.30 X 5.54 MM</td> <td>20'</td> <td>460</td> <td>47149 SKU No 2520400</td> <td>16716</td> </tr> </tbody> </table>					Y/R	O/R	(B11)-B12) Size	(B13) single length	(B10) Quantity	(B14) (B09) Weight item ref. lb	(B08) Heat	(04)	(04)	NPS 2 Schedule 80 60.30 X 5.54 MM	20'	460	47149 SKU No 2520400	16716																																																																
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<p>(C71-C92)</p> <p>LADLE ANALYSIS</p> <p>CE = C + F (MN/6 + SI/24 + CU/15 + NI/20 + (CR + MO + V + NB) / 5 + 5 B) < 0.40% ; HEAT 16716 = 0.33%</p>																																																																																		
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5790

RECEIVED
MAY 09 2003

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<p>(C10-C02-C03)</p> <p>RECTANGULAR SPECIMEN LONGITUDINAL TENSILE TEST AT ROOM TEMPERATURE</p>																																																																																																			
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Product Test Certificate

P.O. Box 1670, Regina, Saskatchewan, Canada S4P 3C7

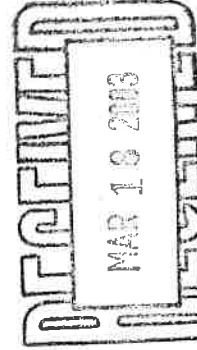
Customer: C.W. CARRY LTD. 5415 - 75TH STREET EDMONTON AB T6G 0T3	Customer Order No.: 10393	Mill Order No.: 31 014097 06	Shipping Tally: 712 443
	Grade Description : CSA G40.21(28/00)40W/300W / ASTM A36(01) A709(01A)(6/ASME SA36(01E))	Ship Date: 03 Feb 03 Cert Date: 04 Feb 03	Cert No.: 188110

Tensile Tests

Heat Number	Product ID	Product Description	YS (PSI)	UTS (PSI)	Elong % of in 8in	Bend Test	Average Hardness
569436	569436C12 (0.250 X 60.00 X 24(0.1))		58000 54000	69000 66000	16 43	18 21	

Heat Chemical Analysis, (%)

Heat Number	C	Mn	S	P	Si	Co	Ni	Cr	V	Cb	Mg	Al	N	Ti	B
569436	.07	.90	.005	.010	.17	.23	.12	.06	.001	.022	.047	.054	.010	.001	.000



Mr. J. J. 'v.
5790

Colin D. Souza
TECHNICAL REPRESENTATIVE

QUALITY ASSURANCE APPROVAL

QA 012 Rev 1 July 1999