

MIQUELON METER SERVICES LTD. WORK ORDER NO. 16088

9720 - 54 AVENUE
EDMONTON, ALBERTA
T6E 0A9, CANADA
PHONE: (780) 434-3411
FAX: (780) 435-0334

SERIAL# - 150018626		CUSTOMER - Ace Instruments Ltd.						
MAKE	STYLE	SIZE	ANSI	SCH	TRIM	AGA	VANE	LENGTH
DANIEL	SENIOR	4"	600RF	80	SOUR	2000 EDITION 14.3	CPA SOE	95"

RADIOGRAPHY	✓	100%
STRESS RELIEVE (P.W.H.T.)	✓	
SANDBLAST	✓	
CHEMICAL ANALYSIS		
HARDNESS TEST		
WELDING	✓	
MACHINING	✓	
CALIBRATION	✓	14.3 Daniel Industries Canada Inc. Inspected
HYDROTEST	✓	

- IF THE UNIT IS STANDARD SERVICE, CUSTOMER MUST SPECIFY IF STRESS RELIEVING (P.W.H.T.) AND RADIOGRAPHY ARE NECESSARY.
- ALL SOUR SERVICE UNITS ARE RADIOGRAPHED AND STRESS RELIEVED.
- ALL UNITS HAVE BEEN COMPLETELY DISASSEMBLED AND PARTS HAVE BEEN CHECKED TO MEET OR EXCEED NEW QUALITY. IF PARTS ARE INCAPABLE OF MEETING THESE STANDARDS, THEY ARE DISCARDED AND NEW PARTS MUST BE USED.
- ALL UNITS ARE MACHINED AND WELDED TO CUSTOMER SPECS.
- ALL SINGLE/DUAL CHAMBER UNITS ARE CALIBRATED.
- ALL DUAL CHAMBER UNITS ARE HYDROTESTED.
- ALL REPORTS ARE PROVIDED WITH THIS WORK ORDER.

Q.C. SIGNATURE	
DATE	AUG 29 2014



Daniel Industries Canada Inc.

P.O. Box 727, Stn T (T2H 2H2)
4215 – 72 Avenue S.E.
Calgary, Alberta T2C 2G5
Canada

T 403-279-1879

F 403-236-1337

www.daniel.com

Meter Tube Nameplate Facsimile

For use with re-manufactured Miquelon Meter Runs

METER EXTENSION MANUFACTURED
BY MIQUELON METER SERVICE

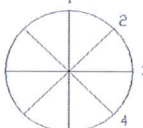
DATE:	9/8/14	AGA FIG:	CPA50E 2000	UL:	52.250"
PIPE SIZE:	4" sch.80	MAX BETA:	.75	DL:	42.500"
SN:	150018626	MAX ORIFICE:	2.870"	Dr:	3.826"
INSPECTION #:	DCMI14-01067	MIN ORIFICE:	.574"	ANSI:	600#

MIQUELON S/N#: 11249

Rev 1, 2004-11-29



Customer Information		General Meter Tube Information	
Customer:	MIQUELON METER SERVICES	Inspection Number:	DCMI14-01067
Address 1:		Meter Tube Serial No.:	
Address 2:		Manufacturer:	Daniel Canada
Customer P.O.:	BLAKE	Inspection Criteria:	AGA3/API 14.3, Part 2, 2000 Edition
Customer Job No.:	7031509	AGA3 Configuration:	CPA 50E
Meter Tag No.:	N/A	Nominal Line Size:	4"
		Pipe Schedule:	80
		Published I.D. (in.):	3.826"

Measured Internal Diameter of Meter Tube			
Position	I.D. Measurements 1" Upstream from the Upstream Face of Orifice Plate (in.)	Calculations	
	1	Coefficient of Thermal Expansion, α_2 :	0.00000620
	2	Meter Tube Temperature, T_m (°F):	67.0
	3	Reference Temperature, T_r (°F):	68.0
	4	Measured Meter Tube I.D., D_m (in.):	3.826
		Calculated Meter Tube I.D., D_r (in.):	3.826

Verification of the Internal Diameter of the Meter Tube				
Note: Internal diameter measurements are checked in a minimum of 4 equally spaced planes at various locations along the length of the meter tube. Max./Min. values for various sections of the meter tube are recorded below. Locations of these check measurements include the orifice fitting, welds, adjoining flanges and pipe.				
	Within 1D _m Upstream of Orifice Plate	Downstream	Entire Upstream Section	
Tolerance (in.):	0.010	0.019	Max. Tolerance (%):	0.500
Allowable Max. (in.):	3.836	3.845	Recorded Max. (in.):	3.828
Allowable Min. (in.):	3.817	3.807	Recorded Min. (in.):	3.820
Recorded Max. (in.):	3.828	3.826	Actual Tolerance (%):	0.209
Recorded Min. (in.):	3.826	3.815	Results:	Pass
Results:	Pass	Pass		

Orifice Plate and Sealing Unit							
	Max.	Min.	Orifice Plate Thickness:	0.125"		U/S	D/S
Beta Ratio:	0.75	0.15	Orifice Plate Eccentricity:	Pass	Plate Seal Protrusion:	Pass	Pass
Bore Size (in.):	2.870	0.574	Orifice Plate Bypass:	Pass	Plate Seal Gap:	Pass	Pass

Internal Surface Roughness		Meter Tube Configuration and Dimensions	
Within 17D U/S of Plate:	Pass	Flow Conditioner or Vane:	CPA 50E
Beyond 17D U/S of Plate:	Pass	1st. Downstream Connection:	3/4" NPT
Downstream of Plate:	Pass	Note: All dimensions are shown in inches unless specified otherwise.	

	OAL:	94.750
	UL:	52.250
	UL1:	20.000
	UL2:	32.250
	L _v or L _{fc} :	0.562
	DL:	42.500
	C:	19.500

Orifice Fitting Information		Flange Tap Information	
Manufacturer:	Daniel	Quantity:	4 Sets
Model No.:	015CTT	Flange Taps Relative to Center of Meter Tube:	Horizontal
Serial No.:	150018626	Diameter:	Pass
ANSI Class:	600#	Location:	Pass
		No. of DP Sensors:	None
		Static Pressure Sensor:	None
		Location:	Tee'd
			No

Comments and Notes (indicate if attachments are included)			
Inspection Kit No.:	FI-1	NOA No:	Sen G-0196
This meter DOES NOT correct for temperature or pressure			
FLOW CONDITIONER: SN: 2041-051 HT# 98075			
Inspector	Peter Harder		
Signed/Dated		Sept. 8, 2014	
Title	Inspector		

Flow Conditioner Inspection Certificate
Inspection Criteria: S-G-04 for CPA 50E Flow Conditioners

CPA-50E Flow Conditioner Inspection Worksheet

Date: SEPT. 8. 2014
Inspection Number: DCFC14-01106
Inspected By: Peter Harder

Customer Information

Customer: MIQUELON METER SERVICES
Address 1:
Address 2:
Customer P.O.: BLAKE
Customer Job No.: 7031509
Meter Tag No.:
Meter Tube S.N.: SN: 150018626 DCM14-01067

General Flow Conditioner Information

Nominal Line Size: 4" ANSI Rating: 150-2500
Pipe Schedule: sch.80 Serial Number: 2041-051
Published I.D.: 3.826"

Inspection and Verification

Chamfers:

Upstream Side Downstream Side

Yes		Yes	
-----	--	-----	--

					Center Ring of 8 Holes				Outer Ring of 16 Holes						
NPS	Sch.	Published	Center Hole Dia.		Hole Dia.		Pitch Circle Dia.		Hole Dia.		Pitch Circle Dia.		Plate Thickness		Plate Dia.
													Actual	.562"	
			Pass	.714"	Pass	.626"	Pass	1.913"	Pass	.464"	Pass	3.251"	Pass		Pass
NPS	Sch.	I.D.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
4"	80	3.826	0.750	0.673	0.662	0.585	1.951	1.875	0.497	0.421	3.290	3.214	0.612	0.440	3.826

Comments and Additional Information

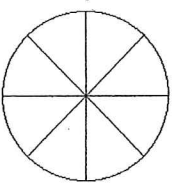
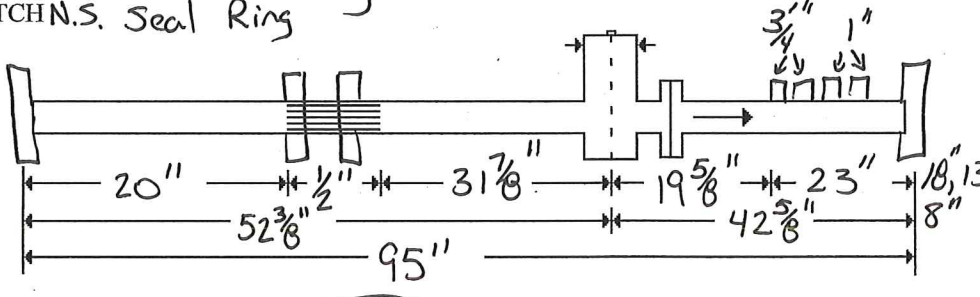
Inspection Kit Number: FI-1

HT# 98075

Inspector: Peter Harder
Signed/Dated: *Peter Harder* Sept. 8. 2014.
Title: Inspector

Miquelon Meter Services Ltd.

9720 - 54 Avenue
 Edmonton, Alberta
 Canada T6E 0A9
 Phone (780) 434-3411
 Fax (780) 435-0334

ORIFICE METER TUBE INSPECTION REPORT				Report No. NO. CMM10971		District EDMONTON, AB.	
Invoice #		AGA # 3 & # 7			Date AUG 27 2014		
Fabricator MMS		For			At		
Nominal Pipe Size 4"	Published Inside Diameter 3.826	Tolerance for 0.75 Beta Factor 0.010/0.019			DIAMETER Max. 3.836 Min. 3.817		
B Factor if less than 0.75	If less, max. orifice plate for run	Meter Run Marked I.D. 3.827/3.825			PLATE THAT MAY BE USED Max. 2.750 Min. 0.625		
 MEASUREMENTS OF INSIDE TUBE DIAMETERS NOTE: When the tube is made up of more than one part, such as pipe, a flange, and a fitting, the 2nd and 3rd diameter measurements should be made in the different parts or equivalent.							
UPSTREAM				DOWNSTREAM			
POSITION	1" from plate	2 nd diameter	3 rd diameter	1" from plate	2 nd diameter	3 rd diameter	
1	3.826	3.824	3.828	3.826	3.822	3.828	
2	825	829	826	826	820	822	
3	826	826	828	827	823	826	
4	826	826	829	827	822	830	
AVERAGE	3.826	3.826	3.828	3.827	3.822	3.827	
AVERAGE UPSTREAM		3.827		AVERAGE DOWNSTREAM		3.825	
B factor if results makes it less than 0.75			Fitting Daniel Senior		Serial No. 150018626		
TAP MEASUREMENTS			Fitting Marked I.D. 3.826				
Up 1.000	Down 1.000						
Vanes CPA 50E	Drain Taps fitting		Therm. Taps DS 3/4"		Pipe Wall Thickness 80		
DIMENSIONS SKETCH N.S. Seal Ring						TRIM: AA	
						S.B.# 11249	
						ANSI: 600	
Results: A.G.A. Figure A B C D E			2000 Edition 14.3		Gives B factor of 0.75		
Remarks			Inspector 				
Manufacturer W.O.# 16088							

Report # D4330

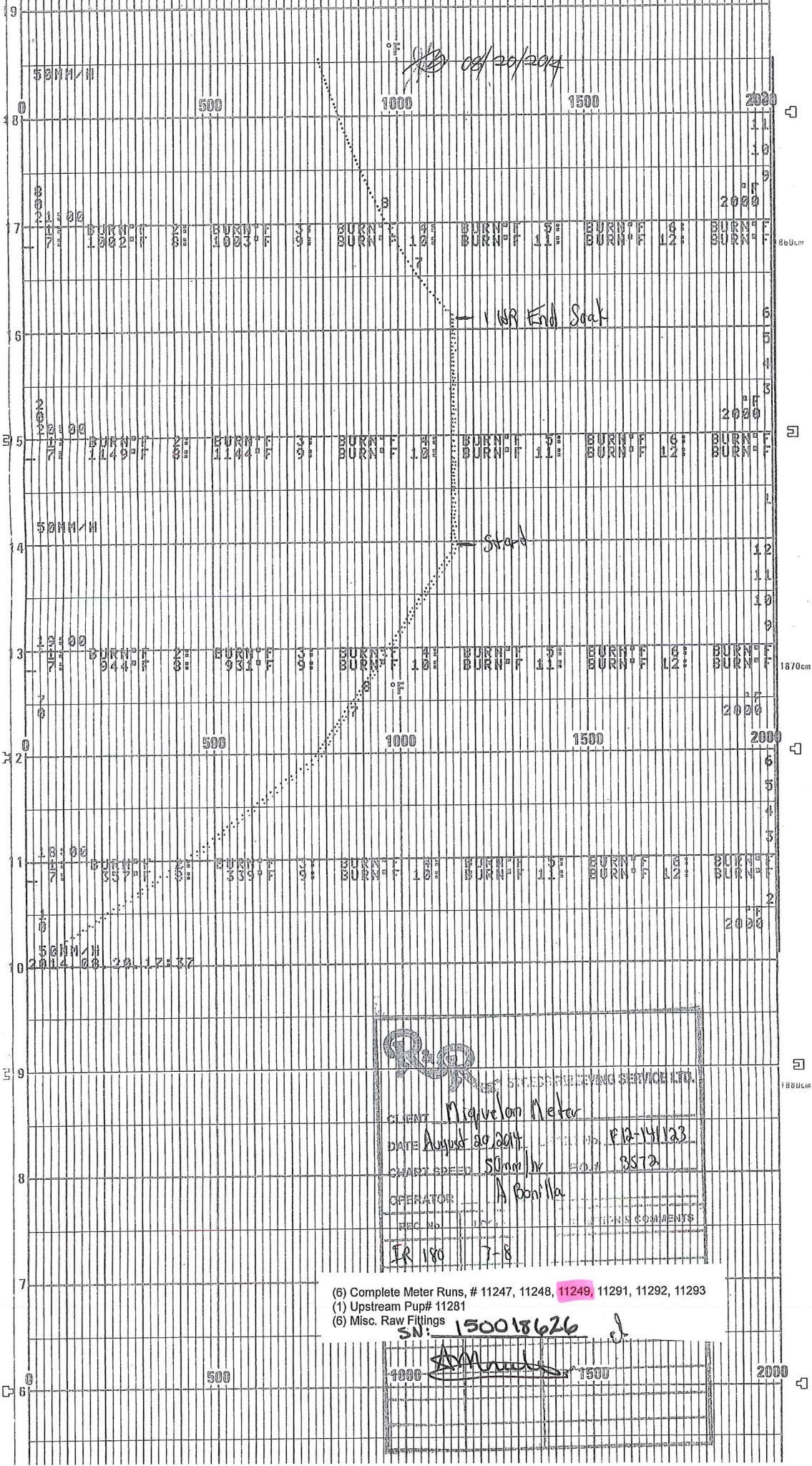
EMAIL: shop@allcaninspection.com

CODES
1. ASME B31.3 N/C
2. ASME B31.3 S/C
3. ASME Sec. VIII Div 1 UW51
4. ASME Sec. VIII Div. 1 UW52
5. CSA Z662
6. CSA Z662 (Sour)
7. API 650
8. Other:

Film Make / Brand		AGFA		Film Class - Type:		1-D4/D5	
Screens	Lead	Front	0.010	Back	0.010	One (no.) film per screen	
Film Density:		Min.	2.0	Max.	4.0		
Penetrometer (IQI hole type) designation:			N/A		Recommended Max. U.G.: 0.20		
Source Isotope:		IRIDIUM-192(Gamma)		Wall Viewing:		Single	
Effective Focal Spot Size:		0.118 inches		Processing:		Automatic	

The above interpretation is a technical opinion, not a guarantee.
Client signature indicates acceptance of the report and results.
Clock tape marker and start arrow marked on weldment.
It is the customer's responsibility to map welds on drawings.

RADIOGRAPHIC EXAMINATION REPORT



REP STEELER SERVICE LTD.

CLIENT: Niquelon Meter

DATE: August 20, 2014 L.P. No. P12-14123

CHART SPEED: 50mm/hr E.O. # 3572

OPERATOR: A Bonilla

REC. No. 100 E.T. COMMENTS

IR 180 7-8

(6) Complete Meter Runs, # 11247, 11248, 11249, 11291, 11292, 11293
(1) Upstream Pup# 11281
(6) Misc. Raw Filings

SN: 150018626

Amtrak

4" 600RF XH
A105

MAR 03 2013



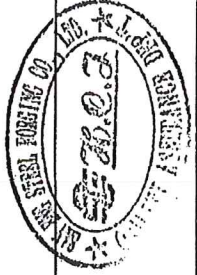
SAN ENG STEEL FORGING CO LTD
311, Jen Hsin Road, Jen Wu District
Kaohsiung, Taiwan, R.O.C.
TEL: 07-3724249; FAX: 07-3712923
URL: www.saneng.com.tw
e-mail: saneng@ksis.seed.net.tw

MILL TEST CERTIFICATE

EN10204-3.1.B(DIN50049/3.1.B)
Customer: W.F.F.FITTINGS & FLANGES (CANADA)
LTD.
Order No.: D900508/S759237451

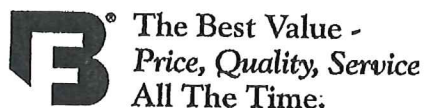
Certificate No.: SE103643
Date: 12/16/2013

PRODUCT			MATERIAL SPECIFICATIONS			DIMENSIONAL SPECIFICATIONS											
FORGED CARBON STEEL FLANGES			ASTM A105-13/ASME SA-105-13			ASME B16.5-13 CSA Z245.12											
Item No.	CODE NO	DESCRIPTION	QUANTITY		CHEMICAL COMPOSITION (%)												CE(%)
			Min	Max	C	Si	Mn	P	S	Cu	Cr	Ni	Mo	V	Nb	N	
101		300 BLRF(2"NPT TAP) 4" A105N	25 PCE		0.212	0.250	1.050	0.011	0.013	0.018	0.045	0.046	0.005	0.037	0.005	0.005	0.409
102		300 BLRF(3"NPT TAP) 4" A105N	5 PCE		0.212	0.250	1.050	0.011	0.013	0.018	0.045	0.046	0.005	0.037	0.005	0.005	0.409
103		600 WNRF S160 4" A105N	40 PCE		0.210	0.220	1.160	0.016	0.004	0.007	0.010	0.010	0.003	0.006	0.001	0.007	0.408
104		600 WNRF XS 4" A105N	142 PCE		0.200	0.210	1.020	0.013	0.005	0.110	0.090	0.060	0.010	0.003	0.001	0.007	0.402
105		600 WNRF XS 6" A105N	682 PCE		0.190	0.200	1.020	0.012	0.005	0.120	0.090	0.050	0.010	0.003	0.001	0.008	0.392
106		150 BLRF 6" A105N	100 PCE		0.220	0.220	1.130	0.017	0.003	0.010	0.020	0.010	0.003	0.008	0.001	0.007	0.416
107		150 THRF 6" A105N	54 PCE		0.190	0.280	1.380	0.012	0.019	0.008	0.030	0.010	0.004	0.002	0.001	0.006	0.428
108		150 THRF 6" A105N	1 PCE		0.200	0.190	1.080	0.017	0.011	0.180	0.090	0.070	0.017	0.010	0.002	0.009	0.419
109		150 WNRF XS 6" A105N	5 PCE		0.210	0.180	1.070	0.007	0.010	0.050	0.040	0.030	0.006	0.003	0.005	0.009	0.403
110		150 WNRF S160 6" A105N	3 PCE		0.210	0.230	1.120	0.011	0.005	0.120	0.070	0.050	0.011	0.011	0.001	0.006	0.426
Item No.	Heat No.	T.S.(*)		Y.S.(*)	(MPA)	E.L.(*)	(%)	Hardness	(HB)	R.A.(*)	Impact Test		Temp.	Minimum	Joule	Material Supplier	HEAT TREATMENT(°C)
		Min	Max								1	2					
101	21379	513.9	513.9	354.0	354.0	34.2	34.2	152/150	187	68.6						NTMK	880°C X4HRS
102	21379	513.9	513.9	354.0	354.0	34.2	34.2	152/150		68.6						NTMK	CONFORMS WITH NACE MR0103-12 AND NACE
103	4677171	518.0	518.0	350.0	350.0	35.8	35.8	153/151		70.4						ACOMINAS	MR0175/ISO15156 2-09 CLAUSE 7.2.1.4 REGION 3 AND ANNEX A
104	C10753	520.0	520.0	376.0	376.0	36.8	36.8	153/151		70.4						SEAH BESTEEL	CONFORMS WITH Z245.12 CAT I GR248 SOUR
105	C10754	512.0	512.0	364.0	364.0	34.0	34.0	152/150		69.5						SEAH BESTEEL	SERVICE-09(FOR USE AS WELDING NECK AND
106	4703624	524.0	524.0	374.0	374.0	37.0	37.0	153/151		70.4						ACOMINAS	BLIND FLANGES ONLY)
107	4399055	529.6	529.6	373.5	373.5	34.8	34.8	153/151		69.5						ACOMINAS	MN TO C RATIO IS GREATER THAN 3.0"
108	93716	527.0	527.0	380.0	380.0	34.2	34.2	153/151		68.6						WEI CHIH STEEL	
109	31079	515.8	515.8	333.4	333.4	36.4	36.4	155/152		69.5						OEMK	
110	83612	543.3	543.3	389.3	389.3	34.0	34.0	157/155		69.5						WEI CHIH STEEL	
*1: T.S. = Tensile Strength, Y.S. = Yield Strength, E.L. = Elongation, R.A. = Reduction of Area.																	
*2: N=Normalized, A=Annealed, Q=Quenched, T=Tempered, S.T.=Solution Treated, S.R.=Stress Relieved, A.C.=Air Cooled, F.C.=Furnace Cooled, W.C.=Water Cooled, O.C.=Oil Cooled.																	
*3: C.E. Value = $C + (Mn/6) + (Cr + Mo \times V) / 5 + (Ni + Cu) / 15$																	
We hereby certify that the material has been tested in accordance with the above specification and also with the requirements called for by the above order.																	
																Manager of Quality Assurance Dept	



3/4 X 3-3, 5000
T.O.L. A105
JUL 15 2014

CERTIFIED MILL TEST REPORT



LOG NO. F00000000059084

Page 2 of 7

BONNEY FORGE CORPORATION

P.O. BOX 330 • 14496 CROGHAN PIKE • MOUNT UNION, PA 17066-0330

(814) 542-2545 • (800) 345-7546 • FAX (814) 542-4906

www.bonneyforge.com

CUSTOMER: CCTF CORPORATION

DATE 06/17/2014

CUSTOMER

BONNEY ORDER NO. B000168360

ORDER NO.: 4895412-00

SHIP TO: CCTF CORPORATION (EDMONTON)

5407 - 53RD AVE.

EDMONTON AB T6B 3G2

Canada

ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO.	CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:
5	50	58501	36-3 X3/8 3000 A105N THRD T	SA/A105N
7551410			AL 0.024 C 0.190 Co 0.002 Cr 0.090 Cu 0.080 Mn 1.090 Mo 0.010 N 0.003 Nb 0.012 Ni 0.030 P 0.009 S 0.021 Si 0.190 V 0.004 CE(Long Formula) = 0.40 T/S(PSI) 72,500 Y/S(PSI) 49,375 EL(%) 32.75 RA(%) 66.30 Brinell 132 BHN 132 BHN	
6	500	59236	5-3 X 3/4 3000 A105N THRD T	SA/A105N
7551568			Al 0.029 C 0.210 Co 0.006 Cr 0.050 Cu 0.130 Mn 1.000 Mo 0.009 N 0.005 Nb 0.014 Ni 0.040 P 0.007 S 0.022 Si 0.190 V 0.003 CE(Long Formula) = 0.40 T/S(PSI) 73,000 Y/S(PSI) 48,100 EL(%) 31.00 RA(%) 66.00 Brinell 137 BHN 137 BHN	
7	250	59031	2X1 3M A105N THRD T	SA/A105N
7551622			Al 0.026 C 0.200 Co 0.002 Cr 0.030 Cu 0.020 Mn 1.090 Mo 0.002 N 0.004 Nb 0.014 Ni 0.010 P 0.007 S 0.020 Si 0.190 V 0.003 CE(Long Formula) = 0.39 T/S(PSI) 71,818 Y/S(PSI) 49,969 EL(%) 35.05 RA(%) 65.64 Brinell 130 BHN 130 BHN	
		59439	2X1 3M A105N THRD T	SA/A105N
7551622			Al 0.032 C 0.200 Co 0.004 Cr 0.040 Cu 0.070 Mn 1.040 Mo 0.005 N 0.004 Nb 0.012 Ni 0.020 P 0.006 S 0.020 Si 0.190 V 0.004 CE(Long Formula) = 0.39 T/S(PSI) 72,407 Y/S(PSI) 48,537 EL(%) 38.05 RA(%) 61.68 Brinell 132 BHN 132 BHN	

We certify that the data on this sheet is a true copy taken from our records of material furnished us by the production mill, or as obtained by additional laboratory checks.

by

Meloney Specht

Meloney Specht

QUALITY PROCESS MANAGER

CMTR: REV2

1x4-5,3000#
A350LF2 T.O.L.
AUG 10 2014

CERTIFIED MILL TEST REPORT

B The Best Value -
Price, Quality, Service
All The Time.

LOG NO. F00000000061107

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BONNEY FORGE CORPORATION

P.O. BOX 330 • 14496 CROGHAN PIKE • MOUNT UNION, PA 17066-0330

(814) 542-2545 • (800) 345-7546 • FAX (814) 542-4906

www.bonneyforge.com

CUSTOMER:

DATE 07/30/2014

CUSTOMER
ORDER NO.:

BONNEY ORDER NO.

SHIP TO:

ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO. CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:
7690201		59471	5 -4 X 1 3000 LF2 THRD T SA/A350 LF2 CL1 Al 0.024 C 0.200 Co 0.003 Cr 0.050 Cu 0.080 Mn 1.060 Mo 0.006 N 0.003 Nb 0.012 Ni 0.030 P 0.008 S 0.017 Si 0.220 V 0.004 CE(Long Formula) = 0.40 T/S(Psi) 73,953 Y/S(Psi) 50,873 EL(%) 38.45 RA(%) 59.94 Brinell 132 BHN 135 BHN Charpy -50 F 108/104/117 (Ft-Lbs) Average 109.70
9 7690201	527	59334	5 -4 X 1 3000 LF2 THRD T SA/A350 LF2 CL1 Al 0.025 C 0.220 Co 0.004 Cr 0.040 Cu 0.060 Mn 1.030 Mo 0.004 N 0.002 Nb 0.012 Ni 0.020 P 0.007 S 0.021 Si 0.220 V 0.003 CE(Long Formula) = 0.41 T/S(Psi) 75,687 Y/S(Psi) 48,558 EL(%) 36.50 RA(%) 62.69 Brinell 130 BHN 130 BHN Charpy -50 F 19/12/22 (Ft-Lbs) Average 17.70
10 7693037	300	59476	10 -6 X 1 3000 LF2 THRD T SA/A350 LF2 CL1 Al 0.032 C 0.200 Co 0.003 Cr 0.060 Cu 0.070 Mn 1.010 Mo 0.008 N 0.003 Nb 0.012 Ni 0.030 P 0.009 S 0.018 Si 0.220 V 0.004 CE(Long Formula) = 0.39 T/S(Psi) 73,170 Y/S(Psi) 49,077 EL(%) 37.20 RA(%) 60.44 Brinell 135 BHN 132 BHN Charpy -50 F 45/63/79 (Ft-Lbs) Average 62.30

We certify that the data on this sheet is a true copy taken from our records of material furnished us by the production mill, or as obtained by additional laboratory checks.

by

Meloney Specht

Meloney Specht
QUALITY PROCESS MANAGER

CMTR: REV2



3020 FORON RD.
1121 HARRISON AV PMB 293
CENTRALIA WA 98531

H" SCH. 80 AUG 13 2014
A106

Material Test Report

Manufactured by:
Salzgitter Mannesmann Precis
BP77 ZI VITRY MAROLLES
Vitry-le-Francois
(Vitry) FRANCE, 51303

Customer Order No: BLAKE 8/5 - EMA Scot Order No: 806816.01

MIQUELON METER SERVICES LTD 9720 - 54 AVE. N.W. EDMONTON AB T6E 0A9	Material Supplier: Part Number: Scot Rec. No:	99129.00 10144925
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Heat Number: 9013980432	Grade: GRADE B	Dimensions: 4.500" OD 3.828" ID X 25R30
Scot Spec: MS-	ASTM Spec: A106-2011	Other Spec: ASME SA106 2008
Description: CDS NORMALIZED STEEL TUBING		

Chemical Analysis										
C	Mn	P	S	Si	Cu	Ni	Cr	Mo	CE	
0.153	0.77	0.009	0.003	0.175	0.099	0.053	0.071	0.016	0.3089	

Mechanical Test Results				
Yield Strength:(PSI)	Tensile Strength:(PSI)	Elongation:(%) in 2" G.L	ROA:(%)	Hardness
56130	79336	37.99		()

Charpy Impact Energy				
Energy ()				
Temp	1	2	3	Avg

Eddy Current
OK.

Joseph Waters
Quality Assurance

08/11/14

The reported analysis and test results are certified to be the same as furnished to us by our supplier. All records and test reports covering the above materials are on file at Scot Industries and may be examined by your personnel or by any agent authorized by you.

MIQUELON METER SERVICES LTD.

9720 - 54 Avenue
Edmonton, Alberta
T6E 0A9 Canada
Ph: (780) 434-3411
Fax: (780) 435-0334

DUAL CHAMBER METER RUN HYDRO-TEST

SIZE: 4" Daniel Senior, 600 ych 80, yowz, 11249

SERIAL#: 150018626 WO#: 16088 DATE: August 29, 2014

BOTTOM CHAMBER

PRESSURE: 1480 PSI START: 6:00 AM FINISH: 6:30 AM TIME HELD: 1/2

VISUAL INSPECTION FOR LEAKS

VALVE SEAT & STRIP: ✓ INTERNAL EQUALIZER: ✓ HEAD & BODY: ✓

COMPLETE UNIT

PRESSURE: 2220 PSI START TIME: 6:30 AM END TIME: 8:00 AM TIME HELD: 1 1/2

VISUAL INSPECTION FOR LEAKS

BEARING PLUGS: ✓ BLEED VALVE: ✓ DRAIN PLUGS: ✓ EQUALIZER: ✓

GREASE GUN: ✓ HEAD & BODY: ✓ SEALING BAR: ✓ SET PINS: ✓

STUFFING BOXES: ✓ VANE: ✓ WELDS: ✓
CP450E

TESTED BY: March

Bolting: B7/2H (B7M/2HM) L7 L7M

Heat# C10754

Seal Ring: N.S. 14.3 Teflon
N.S. 14.3 HNBR ✓
N.S. 14.3 Nitrile
O.S Teflon
O.S. Nitrile

2.000 " I.D orifice plate