



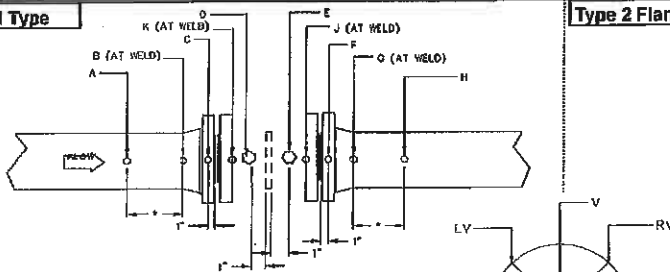
MEASUREMENT SYSTEMS

Meter Tube Calibration Record

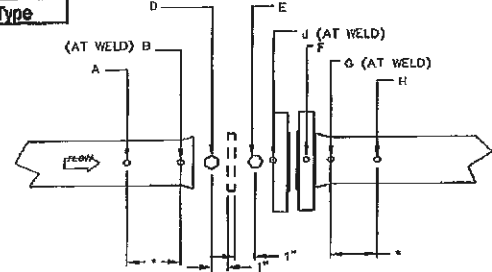
General Specifications

Customer:	RJV GASFIELD SERVICES	Date:	12/07/2011
Location:	HUSKY ENERGY	P.O. Number:	120665
Serial No.	11224934001	Work Order No.	112249340
Assembly Part No.	9A-MR-52-0168E	Part No.	40552-34221
Orifice Fitting:	2" 600# SCH. 80 DUAL CHAMBER	Meter Tube Type No.	2
Straightening Vane:		Yes	X No

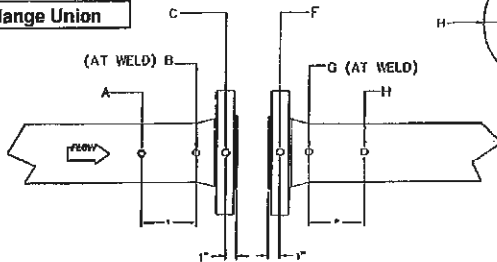
Type 1 Flanged Type



Type 2 Flangeweld Type



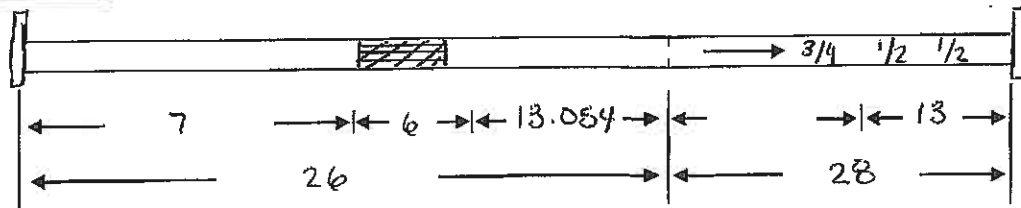
Type 3 Orifice Flange Union



Type 4 weldneck Type Valve or Door
Check Location Point A-B-D on Upstream Tube,
Point E-G-H on Downstream Tube

*Cross section 'A' and 'H' shall be one pipe diameter
except if such Cross Section falls within the lifting or weld
it shall be made 1" inside the pipe

Location	Upstream Meter Tube					Downstream Meter Tube				
	A	B	C	D	K	E	F	G	H	J
V	1.938	1.933		1.940		1.940	1.950	1.943	1.945	1.938
LV	1.937	1.939		1.940		1.940	1.953	1.944	1.944	1.935
RV	1.939	1.947		1.942		1.942	1.950	1.949	1.942	1.945
H	1.938	1.943		1.942		1.942	1.953	1.947	1.931	1.944
Average	1.938	1.941		1.941		1.941	1.952	1.946	1.941	1.941
Upstream Mean Average to Stamp on I.D. Plate				1.941		Downstream Mean Average to Stamp on I.D. Plate				1.941



AGA/API Figure	BETA	Meter Tap Location
3C(1991)	0.70	Upstream 1" Downstream 1"
Remarks:	Inspector:	
680F		



www.c-a-m.com
Phone: 780.463.6868
3707-97th Street, Edmonton, AB. T6E 6J2
rev 5 03/11/11



the pressure equipment safety authority

Certificate of Authorization Permit

Quality Management System

Expiry Date: **December 9, 2013**

Reg. No.: **AQP-5046**

This is to certify that:

**CAMERON
MEASUREMENT SYSTEMS DIVISION
7944 - 10 STREET N.E.
CALGARY, ALBERTA**

having complied with the provisions of the SAFETY CODES ACT, is hereby authorized to:

Manufacture Category 'F' Fittings in accordance with CSA B51

at the above SHOP address.



Dated at Edmonton, this 7th day of December, 2010

Chief Inspector and Administrator

Certificate No.: 7735



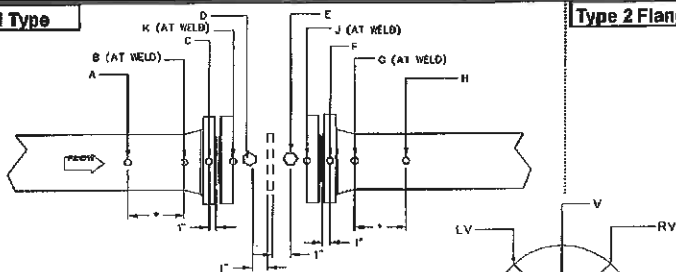
MEASUREMENT SYSTEMS

Meter Tube Calibration Record

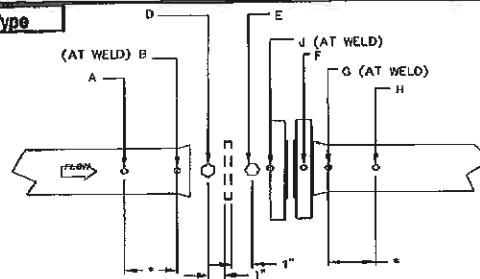
General Specifications

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Location:	HUSKY ENERGY	P.O. Number:	120665
Serial No.	11224934001	Work Order No.	112249340
Assembly Part No.	9A-MR-52-0168E	Part No.	40552-34221
Orifice Fitting:	2" 600# SCH. 80 DUAL CHAMBER	Meter Tube Type No.	2
Straightening Vane:		Yes	X No

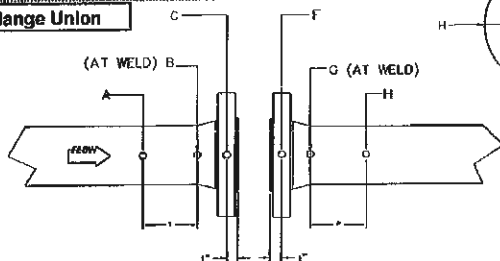
Type 1 Flanged Type



Type 2 Flangeweld Type



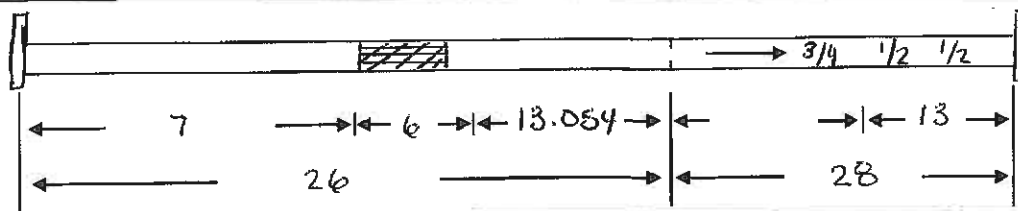
Type 3 Orifice Flange Union



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RV	1.939	1.947		1.942		1.942	1.950	1.949	1.942	1.945
H	1.938	1.943		1.942		1.942	1.953	1.947	1.931	1.944
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AGA/API Figure	BETA	Meter Tap Location		
3C(1991)	0.70	Upstream	1"	Downstream
Remarks:		Inspector:		
68°F				



www.c-a-m.com
Phone: 780.463.6868
3707-97th Street, Edmonton, AB. T6E 6J2
rev.5 03/11/11

NUFLO™ DUAL CHAMBER ORIFICE FITTING

PART NO. **40552-34221**

SERIAL NO. **11224934001**

SIZE **2.0** BORE **1.939**

SWF **1480** FLG **600**

TRIM **SWEET**

TO REMOVE PLATE FROM CHAMBER:

1. CLOSE ORIFICE CHAMBER (INDEX ORIFICE OUT OF OPERATION)
2. OPEN BLEED VALVE.
3. OPEN CHAMBER LID (REMOVE TWO TOP NUTS ONLY)
4. REMOVE ORIFICE PLATE (PUSH ON HOLES IN RETAINER HANDLE).

TO PLACE ORIFICE PLATE IN OPERATION:

1. REPLACE ORIFICE WITH OUTLET ON PLATE AND SEAL ON RETAINER FACING UPWARD.
2. CLOSE LID.
3. CLOSE BLEED VALVE.
4. OPEN EQUALIZING VALVE.
5. OPEN ORIFICE CHAMBER (INDEX ORIFICE INTO OPERATION).
6. CLOSE EQUALIZING VALVE.

CRN (ASME CODE) 0F01120.2C

 **CAMERON**
EDMONTON, ALBERTA, CANADA

NUFLO™ METER RUN

ASSY NO.

9A-MR-52-0168E

SERIAL NO. **11224934001**

PIPE SIZE **2.0**

AGA T A 1 **3 (2000)**

W.D. NO. **112249340**

UIS DIA. **1.941** DIS DIA. **1.941**

SCH. **80** RATING **600**

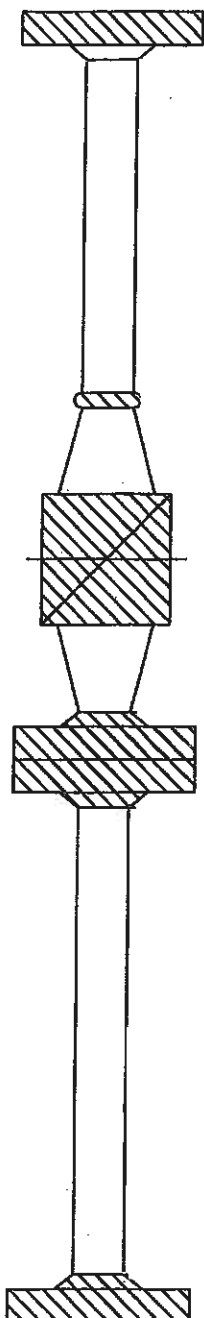
MAT'L **WCB** DATE **12/11**

CALIBRATION CERT'D BY **CAMERON**

CRN (ASME CODE) 0F01120.2C

 **CAMERON**
EDMONTON, ALBERTA, CANADA

WELD IDENTIFICATION MAP



DESCRIPTION: 2" 600# SCH 80 DUAL CHAMBER METER RUN

SERIAL No.: 11224934001

CUSTOMER: RJV GASFIELD SERVICES

P/O No.: 120665

TAG No.: _____

W/O No.: 112249340

END USER: HUSKY ENERGY

WELDER: JAMES McNAB

FILE No.: W-29214

DATE: DECEMBER 08/ 2011

Bryan O'Neill

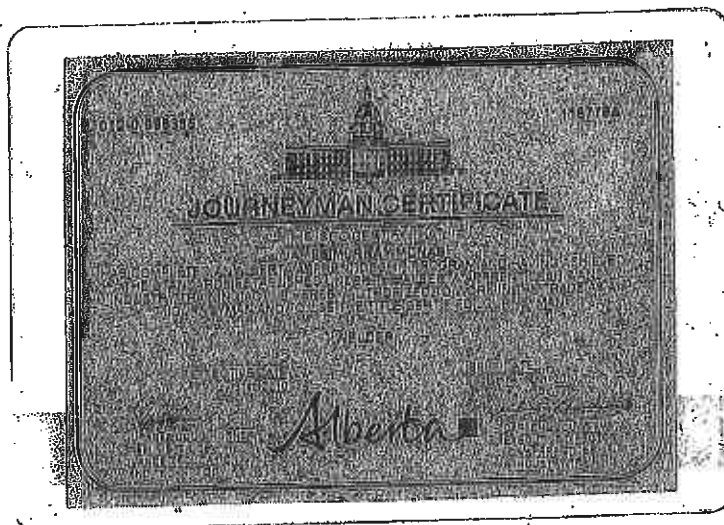
SYMBOL: A

INSPECTOR



Measurement Systems

5003 - 93rd Street
Edmonton, Alberta, Canada
T6E 5S9



A.O.Q.P. No. 7106 (c)
LUDWIG ASSOCIATES LTD.

Materials and Welding Consulting
WELDER PERFORMANCE QUALIFICATION CARD

Name: James McNab

ABSA File No.: W - 29214

This card is issued pursuant to the Alberta Safety Codes Act and the Pressure Welders Regulation. The performance qualification is in accordance with ASME Section IX of the ASME Code and subject to the limitations on the reverse side.

August 17, 2011
Date of Test

Signature of Welder or Machine Operator

Kyle Melville
Welding Examiner

Card No.: 05760

PERFORMANCE QUALIFICATION

05760

Process(es)	SMAW	SMAW	Materials (P.No)	P1 to P1
Filler Metal Group (F.No)	F3	F4	Min. Outside Diameter	1.0 in.
Max. Deposited Weld Metal	0.188 in.	0.684 in.	Position(s) Qualified	Flat
Backing	With or Without	With	Backing Gas	N/A
Progression	N/A	N/A		

August 17, 2013
P.Q. Expiry Date

Welding Examiner Signature

E-00324
Examiner File No.



A.O.Q.P. No. 7106 (c)
LUDWIG ASSOCIATES LTD.

Materials and Welding Consulting
WELDER PERFORMANCE QUALIFICATION CARD

Name: James McNab

ABSA File No.: W - 29214

This card is issued pursuant to the Alberta Safety Codes Act and the Pressure Welders Regulation. The performance qualification is in accordance with ASME Section IX of the ASME Code and subject to the limitations on the reverse side.

August 17, 2011
Date of Test

Signature of Welder or Machine Operator

Kyle Melville
Welding Examiner

Card No.: 05742

PERFORMANCE QUALIFICATION

05742

Process(es)	GMAW	FCAW	Materials (P.No)	P1 to P1
Filler Metal Group (F.No)	F6	F6	Min. Outside Diameter	1.0 in.
Max. Deposited Weld Metal	0.110 in.	0.672 in.	Position(s) Qualified	GMAW: 8P & 45° FCAW: Flat
Backing	With or Without	With	Backing Gas	With or Without
Progression	N/A	N/A		

August 17, 2013

E-00324

Alberta

ABSA
the pressure equipment safety authority

24549

Grade "B" Pressure Welder's
Certificate of Competency

This is to certify that **James McNab**
having complied with provisions of the Safety Codes Act, is authorized to engage
in pressure welding in accordance with the prescribed Regulations.

Dated at Edmonton
June 20, 2011



W-29214
File no.

Chief Inspector and Administrator

MST1201
4/15/11

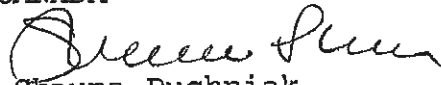
Highland Foundry Ltd.
CHEMICAL AND PHYSICAL ANALYSIS

2" Dual Boss

Page 1
9:46:21

Product# . . . : 40552-026
Customer Part#: 40552-026
Customer . . . : CAMERON MEASUREMENT SYSTEMS
ACCOUNTS PAYABLE
5003 - 93RD STREET
EDMONTON AB T6E 5S9
CANADA

Order/Item# . . : 35016 / 3
Customer P.O.#: 4502787934

Approved by: 
Shauna Puchniak
Quality Assurance Technician

Melt#	Quantity	Date	Heat Treat	BATCH #	:	Specification
3-10373	30	3/22/11		ZE3	-	ASTM A216 WCB

C H E M I C A L S

C : .2000	MN : .8300	SI : .5200	P : .0200
S : .0270	NI : .1000	CR : .2500	MO : .0500
CU : .2500	V : .0140		

P H Y S I C A L S

YIELD KSI	47.6	TENSILE KSI	72.0
ELONGATION %	32	RED OF AR. %	55
IMPACT FT LB		IMPACT FT LB	
IMPACT FT LB		TEST TEMP.	

CE = .42



MATERIAL TEST REPORT

9670-187th Street, Surrey, BC Canada V4N 3N6
Phone 604-888-8444 Fax 604-888-3634
www.hiexlandfoundry.com

ISO 9001:2008

Hardness Test Report



OUR REPUTATION IS STAINLESS™

Customer	Cameron Measurement Systems	PO Number	4502787934
Part Number & Description	40552-026 2" Dual CH. Body 150#-900#	Order Number	35016/3
Material Specification	ASTM A216 Grade WCB	Date	04/15/11
Inspection Method	ASTM E10	Qty	148

Equipment Used: Portable King Brinell Tester

Type of Ball: Regular ☒ Carbide ☐

Load: 3000 kg

Holding Time: 10 sec

Hardness Required: 237 Max Brinell ☒ Rockwell ☐

Heat No. / Batch No.	% of Batch Tested	Hardness Obtained
3-10366/ZD8	10%	170 170 156
3-10367/ZD9	10%	152 152 152
4-9895/ZE1	10%	163 163 163
3-10373/ZE3	10%	163 163 170
6-10395/ZE2	10%	170 156 156
		1

Remarks:

Tested By:

Max Zanazovsky
Inspector

MST1201
8/31/11

Highland Foundry Ltd.
CHEMICAL AND PHYSICAL ANALYSIS

Page
9:

Product# . . . : 40701-052
Customer Part#: 40701-052
Customer . . . : CAMERON MEASUREMENT SYSTEMS
ACCOUNTS PAYABLE
5003 - 93RD STREET
EDMONTON AB T6E 5S9
CANADA

Order/Item# . . : 35510 / 5
Customer P.O.#: 4502938084

Shauna Puchniak
Approved by: Shauna Puchniak
Quality Assurance Technician

Heat Treatment: 1700F, 2.5 Hours, Air Cool

Melt#	Quantity	Date	Heat Treat	BATCH #	:	Specification
2-10185	41	8/16/11		9AX	- -	ASTM A216 WCB

C H E M I C A L S

C :.2100	MN:.8500	SI:.5400	P :.0130
S :.0070	NI:.0600	CR:.2000	MO:.0600
CU:.0900	V :.0190		

P H Y S I C A L S

YIELD KSI	50	TENSILE KSI	76.8
ELONGATION %	33	RED OF AR. %	61
IMPACT FT LB		IMPACT FT LB	
IMPACT FT LB		TEST TEMP.	

CE = .42



MATERIAL TEST REPORT

9670-187th Street, Surrey, BC Canada V4N 3N6
Phone 604-888-8444 Fax 604-888-3634
www.highlandfoundry.com

ISO 9001:2008

Hardness Test Report



Customer	Cameron Measurement Systems	PO Number	4502938084
Part Number & Description	40701-052 2" Dual CH. LID	Order Number	35510/5
Material Specification	ASTM A216 Grade WCB	Date	08/31/11
Inspection Method	ASTM E10	Qty	82

Equipment Used: Portable King Brinell Tester

Type of Ball: Regular ☒ Carbide ☐

Load: 3000 kg

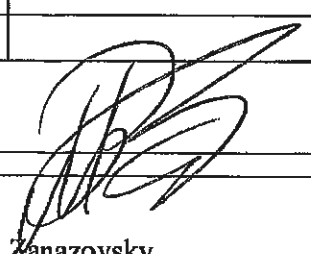
Holding Time: 10 sec

Hardness Required: 237 Max Brinell ☒ Rockwell ☐

Heat No. / Batch No.	% of Batch Tested	Hardness Obtained
2-10183/8AX	10%	170, 170, 170, 170
2-10185/9AX	10%	170, 170, 170, 179

Remarks:

Tested By:


Max Zanazovsky
Inspector

9A-40552-039 -0300 02 w/o 17091 002

CERTIFICATE OF ANALYSIS & TESTS

DATE: 5.4.2011
CUSTOMER PO #: B101403
CUSTOMER PART #:

DESCRIPTION

HEAT NO: MM09100827
MILL: NUCOR
QTY: 5 PCS
SIZE: 5 1/4" OD X 120-1/2" RLS

GRADE: ASME SA105/SA350 LF-2 CLASS 1
SPEC: ASME SA105/SA350 LF-2/ASTM A350 LF-2/A105
NACE MR01-75; BS EN10204.3.1
FINISH: HT

CHEMICAL PROPERTIES

C.	Mn.	P.	S.	Si.	Ni.	Cr.	Mo.	Cu.
.19	1.10	.007	.004	.16	.05	.10	.02	.16
Al.	V.	Nb.	Sn.	N.	B.	Ti.		
.026	.004	.001	.009	.0069	.0002	.002		

MECHANICAL PROPERTIES

YIELD ST.: 46000
TENSILE ST.: 74000
EL %: 36
RED OF AREA: 62
HARDNESS: 149-149 HBW
GRAIN:

CHARPIES: -50 DEG F LCVN 84/96/94 FT./LBS.
LATERAL EXPANSION: 36/49/46
SHEAR FRACTURE: 40/40/40
Unless otherwise stated, specimens are full size: 10mm x 10 mm

CE=.41

HEAT TREATMENT

PRODUCT:
NORMALIZED AT 1650 DEG F FOR 11.75 HOURS, AIR COOLED

PAZMAC

MAY 18 2011

APPROVED

TEST BAR: Size: 3 X 6 X 6

HARDNESS: 156-156 HBW (CKED IN 2 PLACES)

Unless otherwise stated, yield stress is .2% stress is .2% offset. Gauge length is 2" for 1/2" specimen or 1" for 1/2" specimen.

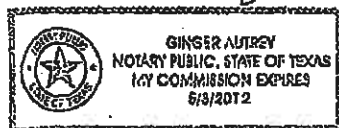
Sworn & Subscribed before me this
4TH Day of MAY, 2011

We hereby certify that the above is the same as
the data furnished us by our suppliers or resulting
from tests performed in a recognized laboratory.

Ginger Autrey
Notary

By *[Signature]*
Representative

Management Systems Registered to ISO 9001:2008





METALFAR
PRODOTTI INDUSTRIALI S.P.A.

SEDE AMMINISTRATIVA E STABILIMENTO:
23851 CESANA BRIANZA (CO) - Italy
Via G. Pardi, 28
Tel. +39 031 655441
Fax +39 031 655149
quality.metal@metal.com

SALA PROVE E ANALISI MATERIALI / MATERIAL TEST DEPARTMENT

COMPANY WITH QUALITY MANAGEMENT
SYSTEM CERTIFIED BY DNV

= ISO 9001:2008 =

CERTIFICATO DI COLLAUDO SECONDO EN 10204 - 3.1 INSPECTION CERTIFICATE

TRANS AM PIPING PRODUCTS LTD		Certif. N. 4122	
9333 ENDEAVOR DRIVE S.E.		Def/Dated 30.08.2011	
T3S 0A1 CALGARY, ALBERTA		Def/Dated 25.08.2011	
CA		Def/Dated 25.08.2011	
No.Ord. / Our ref. N.		Dedicated	

Pag. 5 - 20

COD. COL.	COLATA	POS.	VS. ORDINE	DESCRIZIONE	DIM. ACC. A	VS. ORDINE																									
HEAT CODE	HEAT	ITEM	YOUR REFERENCE	DESCRIPTION	DIM. ACCORDANCE TO	VS. & DIMENS.																									
10671671	018	716/TRANS AM		W/N 150 RF 2" XXS LF2CL1	ASME/ANSI B16.5-2009	SATISFACTORY																									
MATERIALE / MATERIAL																															
ASTM A350 LF2 CL1/2		C%	0,190	S%	0,220	Mn%	1,090	S%	0,008	P%	0,014	C%	0,110	NI%	0,050	MO%	0,010	TS%	0,017	CU%	0,200	V%	0,002	ND%	0,002	N%	0,000	AS%	0,027	C.E.%	0,413
PROVETTA / TEST SPECIMEN							RESILLENZA / IMPACT TEST - JOULE/CM2										SNEBBIAMENTO / YIELD POINT										Mn, Br, OUR REF.				
126,60	50,80	1	341,0	550,0	32,0	57,0	166,0 - 170,0	KV										0,0													
MATERIALE IN ACCORDO A / MATERIAL IN ACC. TO							TRATTAMENTO TERMICO / HEAT TREATMENT										FORMO / FURNACE										ORIGINE / ORIGIN				
ASTM/ASME A 350/SA 350 M - 07 ASME CODE SECT. II, PART A, ED. 2010							NORMALIZED AT 930 C - COOLED IN STILL AIR										ELECTRIC FURNACE										EUROPE				

COD. COL.		COLATA	POS.	VS. ORDINE	DESCRIZIONE	DIM. ACC. A		VS. & DIMENS.		SATISFACTORY	
HEAT CODE		HEAT	ITEM	YOUR REFERENCE	DESCRIPTION	DIM. ACCORDANCE TO		VS. & DIMENS.		SATISFACTORY	
10122919		048	754/TRANS AM		W/N 600 RF 2" XS	A105					
MATERIALE / MATERIAL											
ASTM A105											
PROVETTA / TEST SPECIMEN		PES. FORM. SECT. mm2		LUNG. mm		TRATTAMENTO TERMICO / HEAT TREATMENT		RESILLENZA / IMPACT TEST - JOULE/CM2		SNEBBIAMENTO / YIELD POINT	
126,60		50,80		1		345,0		531,0		31,0	
50,80		1		345,0		531,0		31,0		56,0	
163,0 - 165,0											
MATERIALE IN ACCORDO A / MATERIAL IN ACC. TO											
ASTM/ASME A 105/SA 105 M - 10 ASME CODE SECT. II, PART A, ED. 2010											
TRATTAMENTO TERMICO / HEAT TREATMENT											
NORMALIZED AT 920 C - COOLED IN STILL AIR											
FORMO / FURNACE											
ELECTRIC FURNACE											
ORIGINE / ORIGIN											
EUROPE											

NOTE MANUFACTURING IN ACCORDANCE WITH ORDER AND SPECIFICATION		UFFICIO CONTROLLO QUALITA'		ENTE UFFICIALE DI COLLAUDO		MARCHIO PRODUZIONE	
MATERIAL IN ACCORDANCE WITH NACE MR-0175/2003 ISO 15166		QUALITY CONTROL DEPARTMENT		INSPECTION AUTHORITY		MANUFACTURER'S SYMBOL	
MATERIAL IN ACCORDANCE WITH NACE MR-0103/2010							

John S. Davis



P.O. # 4503110298 Item# 4
Heat Number 10101019
Trans Am 10101019
Shipping 10101019
Products Ltd. 1767
Rev'd By: 88
10

2" CL 600 W/N FLANGE RF XH
BOR A105N



Manufacturer of Piping and Pressure Vessel Components

4407 Haygood St - Houston, TX 77022

Phone: 713-695-3633 Fax: 713-695-3528

A Bonney Forge Company

Page 60 of 63

Sold To: TRANS AM PIPING PRODUCTS
 LTD
 9335 ENDEAVOR DRIVE S.E.
 CALGARY AB T3S 0A1

MTR #: 206,980

PO #: CI-11-322

Sales Order #: C001105226

Date: 05/04/2011

This product has not come in direct contact with mercury or any of its compounds, nor with any mercury-containing device employing a single boundary of containment. No welding performed.

We certify that the contents of this report are correct and accurate, and that all test results and operations performed by WFI or its subcontractors are in compliance with the material specification and requirements of the referenced code or standard, and that the material conforms to the dimensional requirements of the order. This document is in accordance with EN10204 3.1.

Certified Material Test Report

Heat Code: 58272

Material: A/SA105N 09

Item	Description
4	36 - 3/4 X 1/2 3M THP A/SA105N

Chemical Composition

Ladle	C	CR	CU	MN	MO	NB	NI	P
	0.190	0.03	0.090	1.16	0.010	0.014	0.03	0.007
	S	SI	V					
	0.019	0.19	0.004					
Carbon Equivalency:	Ladle			0.40				

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness
	75,000	51,000	29.00	67.00	143 BHN
					146 BHN

Normalized

1. IN ACCORDANCE WITH NACE SPEC MR0175-2002

Marie Dehmer

Quality Assurance Representative



Manufacturer of Piping and Pressure Vessel Components

4407 Haygood St - Houston, TX 77022

Phone: 713-695-3633 Fax: 713-695-3528

A Bonney Forge Company

Page 3 of 4

Sold To: TRANS AM PIPING PRODUCTS
 LTD
 9335 ENDEAVOR DRIVE S.E.
 CALGARY AB T3S 0A1

MTR #: 200,085

PO #: CI-10-527

Sales Order #: C001013323

Date: 12/17/2010

Certified Material Test Report

Heat Code: 58184

This product has not come in direct contact with mercury or any of its compounds, nor with any mercury-containing device employing a single boundary of containment. No welding performed.

We certify that the contents of this report are correct and accurate, and that all test results and operations performed by WFI or its subcontractors are in compliance with the material specification and requirements of the referenced code or standard, and that the material conforms to the dimensional requirements of the order. This document is in accordance with EN10204 3.1.

Material: A/SA105N 09

Item	Description
7	36 - 3/4 X 1/2 3M THP A/SA105N

Chemical Composition

Ladle	C	CR	CU	MM	MO	NB	NI	P
	0.220	0.04	0.070	1.03	0.000	0.01	0.02	0.008
	S	SI	V					
	0.019	0.26	0.00					

Carbon Equivalency: Ladle 0.41

	Tensile PSI	Yield PSI	Elong %	RA %	Hardness	
Product	75,000	49,900	29.00	66.00	144 BHN	144 BHN

Normalized

1. IN ACCORDANCE WITH NACE SPEC MR0175-2002



Manufacturer of Piping and Pressure Vessel Components

4407 Haygood St - Houston, TX 77022

Phone: 713-695-3633 Fax: 713-695-3528

A Bonney Forge Company

Page 24 of 29

Sold To: TRANS AM PIPING PRODUCTS
LTD
1711 - 66TH AVENUE
EDMONTON AB T6P 1Y9

MTR #: 213,902

PO #: PI-11-35325

Sales Order #: C001110728

Date: 08/30/2011

This product has not come in direct contact with mercury or any of its compounds, nor with any mercury-containing device employing a single boundary of containment. No welding performed.

We certify that the contents of this report are correct and accurate, and that all test results and operations performed by WFI or its subcontractors are in compliance with the material specification and requirements of the referenced code or standard, and that the material conforms to the dimensional requirements of the order. This document is in accordance with EN10204 3.1.

Certified Material Test Report

Heat Code: 58391

Material: A/SA105N 09

Item	Quantity	Description
1	20	36 - 1 1/2 X 3/4 3M THP A/SA105N
2	10	36 - 1 1/2 X 3/4 3M THP A/SA105N

Chemical Composition

Ladle	C	CR	CU	MN	MO	NB	NI	P
	0.200	0.06	0.200	1.00	0.010	0.000	0.04	0.008
	S	SI	V					
	0.021	0.17	0.003					
Carbon Equivalency:	Ladle.			0.40				

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness	
	80,500	52,500	31.00	65.00	163 BHN	163 BHN

Normalized

IAW NACE MR0175/ISO 15156- 2009

Marie Dehmer
Quality Assurance Representative

張學良

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

Manufactured by:
ZHANGJIAGANG City Precision Pi

Material Test Report

Customer Order No: 4502700013

Scot Order No:

CHINA,
Country of Origin: CHINA
742150.01

CN

CAMERON MEASUREMENT SYSTEMS
5003-93RD STREET
EDMONTON AB T6E

Material Supplier:	9687.00
Part Number:	9A-C1609-016-04200
Scot Rec. No:	10071119

Heat Number: 30706-0802

Grade:

Dimensions: 2.375" OD 1.939" ID X 25R30

MS- Scot Spec:

ASTM Spec A106-B / A333-6

Other Spec:

Description: CDS NORMALIZE STEEL TUBING

[illegible]

Mechanical Test Results

Yield Strength:(PSI)	Tensile Strength:(PSI)	Elongation:(%) in 2" G.L.	ROA:(%)	Hardness
56564	66717	38		()

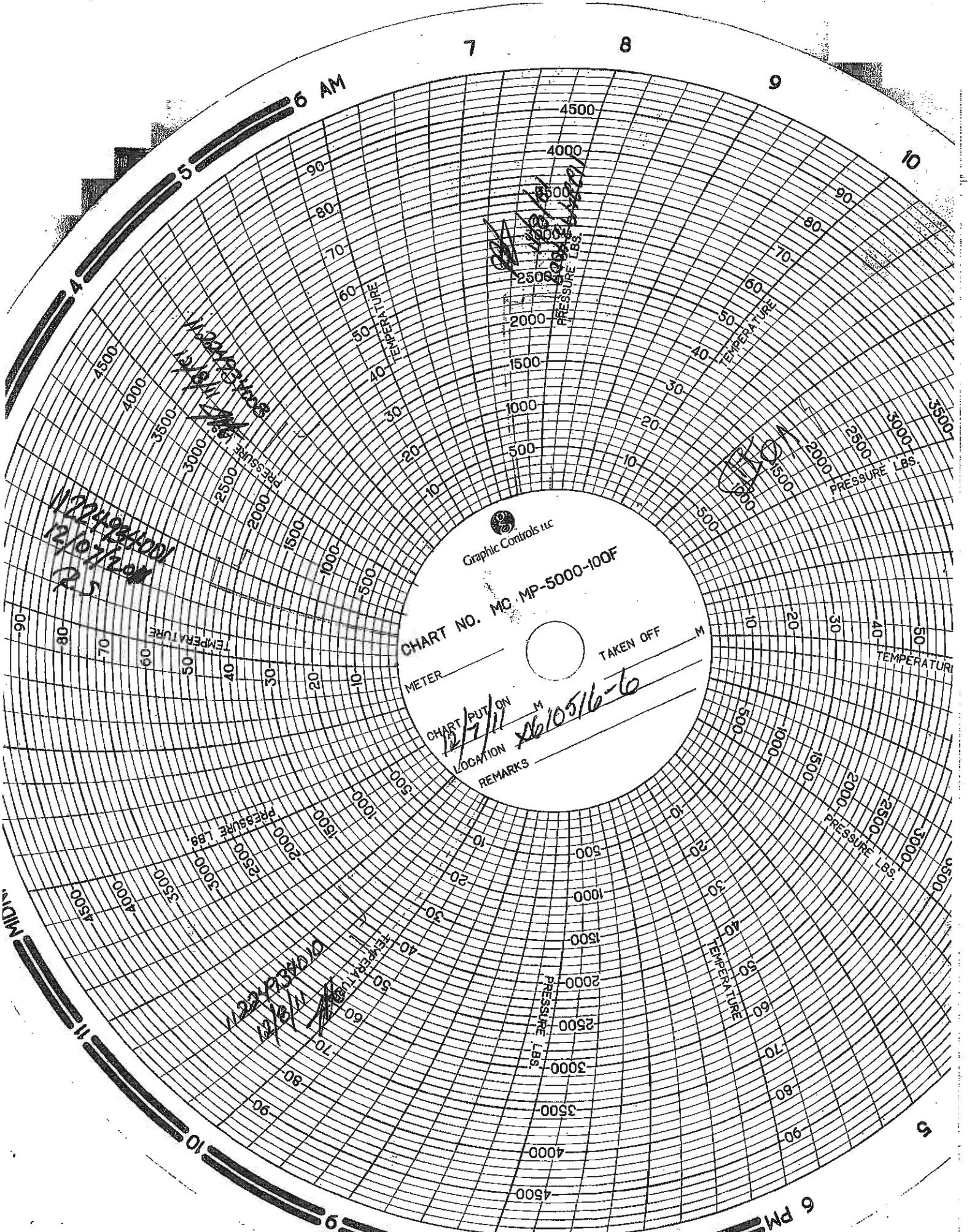
[illegible]

Eddy Current
OK

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.

Quality Assurance
12/30/10

Quality Assurance
12/30/10



Graphic Controls Inc

CHART NO. MC MP-5000-100F

METER

TAKEN OFF

CHART PUT ON
12/7/11

LOCATION

REMARKS

2610516-6

W2249-1000
12/07/11
R5

W2249-1000
12/07/11
R5