660005442



MEASUREMENT SYSTEMS

Meter Tube Calibraton Record General Specifications **RJV Gas Field Svcs** Dec. 14, 2012 Customer: Date: **Husky Energy** 125991 Location: P.O. Number: 11264364509 112643645 Serial No. Work Order No. 9A-MR_52_0091C 40552-33221 Assembly Part No. Part No. 2" 600# Sch 80 Dual Chamber Meter Run Orifice Fitting: Meter Tube Type No. Str. Vane / Flow Cond.: Yes Type 1 Flanged Type Type 2 Flangeweld Type (AT WELD) g (at weld) (AT WELD) D G (AT WELD) Type 3 Orifice Flange Union (AT WELD) B. G (AT WELD) 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 diamete except if such Cross Section falls within the litting or weld it shal be made it inside the pipe **Upstream Meter Tube** Downstream Meter Tube Location ٧ 1.939 1.935 .944 LV RV 1.944 1.94 Н Average . 1.944 1.944 1.940.Upstream Mean Average Downstream Mean Average 1.940 to Stamp on I.D. Plate to Stamp on I.D. Plate 9.7507 H- 15.750 26.000 AGA/API Figure Meter Tap Location 3 (2000) Upstream N/A Downstream Remarks: Inspector:



www.c.a-m.com Tel.: 780.468.2941 Edmonton, AB NQSF-01 Rev.4 10/21/11





Certificate of Authorization Permit

Expiry Date: December 9, 2013

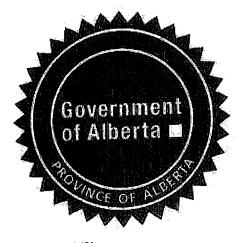
Reg. No.: AQP-5046

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.



Form No. AB-121 Rev. (2010/05) Dated at Edmonton, this 7th day of December, 2010

Chief Inspector and Administrator

Certificate No.: 7735

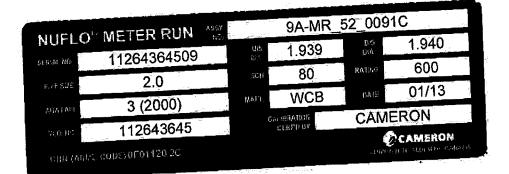


Cameron Measurement Systems

QUALITY CONTROL INSPECTION REPORT

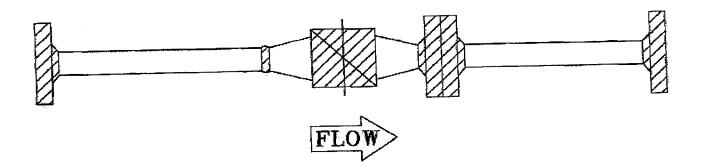
V	3707 - 97th Stre	et			11451			
	Edmonton, Albe	rta, Canada T6	E 6J2			-1 2012		
	Customer:	RJV Gas Field Svcs			***	January 11, 2013		
	Location:	Husky	Energy	Purcha	se Order No.:	125991		
	Cocation:	11264	364509	Orifice Fitting:		O Dual Chamber Meter Run		
	Assembly No.:	9A-MR	52_0091C	Hydrostatic 1	Test Pressure:			
	Assembly No	ard API 14.3		Duration:	15 Minutes			
	Meterias		ECCENTRICITY					
	B				0.003	0.005		
			Horizontal (A - A ¹)		0.003	0,002		
TAP HOL)-^-F	Vertical (B - B ¹)/2		0.004	0,00-		
	T _B '		A womant Ins	ement Instrument:		Mitutoyo Dial Indicator		
			Measurement ma					
		PRESSU	RE TAP HOLE VA	RIATION				
		Distance	from Plate & Hole	Diameter				
			41.4.	Downstream	Hole			
	ſ	Upstream	Hole	T	0,378			
		1.005	0.372	1.005	0,376			
	ı				nAV Flori	PAV Electronic Depth Gauge		
			Measurement In:	strument:	PAV LIEC			
		CI	JRFACE ROUGHN	IESS		•		
		<u>31</u>	JAPACE ROCCIA					
	Roughness M	easurement Lo	cation		Micro	inches		
				•		99		
	Upstream Tul	be, One Pipe Di	ameter from Weld	1	1	103 126 89		
	Upstream at I	Pressure Tap H	ole - Nala		1			
	Downstream	at Pressure Taj	Clange					
	Downstream	1" from End of	Flange					
			Measurement Ir	strument: Mitutoyo 212 Surftester				
			DIFFERENTIALT	EST				
	•							
	Water Hydros	static Method a	at50	psi	mum			
		Duratio	n5	Minutes Mini				
			Measurement	nstrument:	McDan	iels Gauge 0 -100 psi		
				Lorne Dagg/ Leigha Jarvis				
		Mork Order	FOLINE DARBAL -0.3					





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WELD AND RADIOGRAPHY **IDENTIFICATION MAP**



Description:	2"	600# sch	80	Dual	Chamber	Meter	Run

Serial No.: 11264364509

Customer: RJV Gas Field Svcs

P/O No.: 125991

TAG No.: End User: W/O No.: 112643645

N/A Husky Energy

Radiography Unit:

N/A

Welder:

Jeff Harrington

File No.:

W-23651

Date:

1/11/2013

Lorne Dagg

Symbol:

Quality Assurance Inspector



CAMERON

Measurement Systems

7944 - 10th Street NE

Calgary, Alberta

T2E 8W1