



38-52 Review Avenue
Long Island City, NY 11101

Since 1918
Our 93. Year

MATERIAL TEST REPORT

PAGE 1 of 1

REPORT #		CUSTOMER INFORMATION			
R2111 - 010411					
DATE	January 3, 2011	Sold to	QUANTUM SUPPLY LTD	End User Name	CENOVUS FCCL
STOCK #	Williams valve PO#2111	PO #	701406-701386	Buyer	MRC Midfield
Applicable standards	API 603, ASME B16.34, API 598, MSSP-55		PO #'s C 784 069611 1B0 C 750 072766 3B0 C 750 072769 3B2		
OTHER					

C 784 069611 1B0
C 750 072766 3B0
C 750 072769 3B2
C 750 072761 5B2
C 750 072764 9B1
C 750 072767 4B1
C 750 072768 6B1
C 750 072757 4B2
C 750072763 9B2

Hydro Test Results to API 598			
ITEM	Shell	Seat & Backseat	Air Test
Pressure Class	180	800 ANSI	120
Duration (sec)	20.68	15.1	0.6
Hold Pressure (mpa)	PASS	PASS	PASS

PO: P-2010-299-TSE-2002
LINE: 9
TAG: 1-GX-08U00

Other Checks	
Dimensions	OK
Visual	OK
Marking	OK
Remarks	OK

VALVE DESCRIPTION									CHEMICAL COMPOSITION (%)											PHYSICAL PROPERTIES				
PO Line #	CUSTOMER TAG	VALVE TYPE	Material	SIZE	FIGURE #	CLASS	HEAT #	PART NAME	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	CE Calc	Tensile MPA	Yield KSI	Elong %	Reduct %	HB	
1		GATE VALVE	ASTM A182-F53	0.75"	FS80T*S-0 F53 WB	800	J28	BODY	0.025	0.52	0.92	0.024	0.002	24.92	7.2	3.31	0.33		122.53	84.1	24	33	256	
1		GATE VALVE	ASTM A182-F53	0.75"	FS80T*S-0 F53 WB	800	J28	BONNET	0.025	0.52	0.92	0.024	0.002	24.92	7.2	3.31	0.33		122.53	84.1	24	33	256	
2		GATE VALVE	ASTM A182-F51	0.75"	FS80SW-0 F51 WB	800	H28	BODY	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
2		GATE VALVE	ASTM A182-F51	0.75"	FS80SW-0 F51 WB	800	H28	BONNET	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
3		GATE VALVE	ASTM A182-F51	0.75"	FS80T-0 F51 WB	800	H28	BODY	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
3		GATE VALVE	ASTM A182-F51	0.75"	FS80T-0 F51 WB	800	H28	BONNET	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
4		GATE VALVE	ASTM A182-F51	0.75"	FS80T*S-0 F51 WB	800	H28	BODY	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
4		GATE VALVE	ASTM A182-F51	0.75"	FS80T*S-0 F51 WB	800	H28	BONNET	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
5		GATE VALVE	ASTM A182-F51	1.00"	FS80T*S-0 F51 WB	800	H28	BODY	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
5		GATE VALVE	ASTM A182-F51	1.00"	FS80T*S-0 F51 WB	800	H28	BONNET	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
6		GLOBE VALVE	ASTM A182-F51	1.00"	FS802SW-0 F51 WB	800	H28	BODY	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
6		GLOBE VALVE	ASTM A182-F51	1.00"	FS802SW-0 F51 WB	800	H28	BONNET	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
7		GATE VALVE	ASTM A182-F51	0.75"	FS80T*S-0 F51 WB	800	H28	BODY	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
7		GATE VALVE	ASTM A182-F51	0.75"	FS80T*S-0 F51 WB	800	H28	BONNET	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
8		GATE VALVE	ASTM A182-F53	0.75"	FS80T*S-0 F53 WB	800	J28	BODY	0.025	0.52	0.92	0.024	0.002	24.92	7.2	3.31	0.33		122.53	84.1	24	33	256	
8		GATE VALVE	ASTM A182-F53	0.75"	FS80T*S-0 F53 WB	800	J28	BONNET	0.025	0.52	0.92	0.024	0.002	24.92	7.2	3.31	0.33		122.53	84.1	24	33	256	
9		GATE VALVE	ASTM A182-F51	1.00"	FS80SW-0 F51 WB	800	H28	BODY	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
9		GATE VALVE	ASTM A182-F51	1.00"	FS80SW-0 F51 WB	800	H28	BONNET	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
10		GATE VALVE	ASTM A182-F51	0.50"	FS80T*S-0 F51 WB	800	H28	BODY	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
10		GATE VALVE	ASTM A182-F51	0.50"	FS80T*S-0 F51 WB	800	H28	BONNET	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
11		GATE VALVE	ASTM A182-F51	0.75"	FS80T*S-0 F51 WB	800	H28	BODY	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
11		GATE VALVE	ASTM A182-F51	0.75"	FS80T*S-0 F51 WB	800	H28	BONNET	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
12		GATE VALVE	ASTM A182-F51	1.00"	FS80T*S-0 F51 WB	800	H28	BODY	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
12		GATE VALVE	ASTM A182-F51	1.00"	FS80T*S-0 F51 WB	800	H28	BONNET	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
13		GLOBE VALVE	ASTM A182-F51	1.00"	FS802SW-0 F51 WB	800	H28	BODY	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
13		GLOBE VALVE	ASTM A182-F51	1.00"	FS802SW-0 F51 WB	800	H28	BONNET	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
14		GATE VALVE	ASTM A182-F51	0.75"	FS80T*S-0 F51 WB	800	H28	BODY	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
14		GATE VALVE	ASTM A182-F51	0.75"	FS80T*S-0 F51 WB	800	H28	BONNET	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
15		GATE VALVE	ASTM A182-F51	0.75"	FS80T*S-0 F51 WB	800	H28	BODY	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
15		GATE VALVE	ASTM A182-F51	0.75"	FS80T*S-0 F51 WB	800	H28	BONNET	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
16		GATE VALVE	ASTM A182-F51	1.00"	FS80T*S-0 F51 WB	800	H28	BODY	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
16		GATE VALVE	ASTM A182-F51	1.00"	FS80T*S-0 F51 WB	800	H28	BONNET	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
17		GATE VALVE	ASTM A182-F51	0.75"	FS80T*S-0 F51 WB	800	H28	BODY	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
17		GATE VALVE	ASTM A182-F51	0.75"	FS80T*S-0 F51 WB	800	H28	BONNET	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
18		GATE VALVE	ASTM A182-F51	0.75"	FS80T*S-0 F51 WB	800	H28	BODY	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
18		GATE VALVE	ASTM A182-F51	0.75"	FS80T*S-0 F51 WB	800	H28	BONNET	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
19		GLOBE VALVE	ASTM A182-F51	0.50"	FS802SW-0 F51 WB	800	H28	BODY	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
19		GLOBE VALVE	ASTM A182-F51	0.50"	FS802SW-0 F51 WB	800	H28	BONNET	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
20		GLOBE VALVE	ASTM A182-F51	0.75"	FS802SW-0 F51 WB	800	H28	BODY	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
20		GLOBE VALVE	ASTM A182-F51	0.75"	FS802SW-0 F51 WB	800	H28	BONNET	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
2		GATE VALVE	ASTM A182-F51	0.75"	FS80TXS-0 F51 WB	800	H28	BODY	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
2		GATE VALVE	ASTM A182-F51	0.75"	FS80TXS-0 F51 WB	800	H28	BONNET	0.025	0.41	1.33	0.022	0.001	22.46	5.09	3.38			98.17	77.29	31	61	220	
4		GATE VALVE	ASTM A182-F53	0.75"	FS80TXS-0 F53 WB	800	J28	BODY	0.025	0.52	0.92	0.024	0.002	24.92	7.2	3.31	0.33		122.53	84.1	24	33	256	
4		GATE VALVE	ASTM A182-F53	0.75"	FS80TXS-0 F53 WB	800	J28	BONNET	0.025	0.52	0.92	0.024	0.002	24.92	7.2	3.31	0.33		122.53	84.1	24	33	256	

We hereby certify that the material described above has been tested and complies with the terms of the contract. This is a computer generated test report and valid without signature - Originals are on File at Williams E Williams Valve Corp.

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Received on: Oct.12, 2011
PO# P-2010-299-2002