



Department of consumer and corporate affairs / Ministère de la consommation et des corporations

SPG-2<sup>12</sup>

G 1141-57/P378

OTTAWA, April 2, 1973.

SPECIAL APPROVAL

Granted to: Petrogas Processing Ltd.,  
1000 Calgary House,  
550 - Sixth Ave. S.W.,  
Calgary 1, Alberta.

Attention: Mr. H.E. van Stelten  
Project Engineer

Subject: Two 14" Scheduled 60 Non-Standard Orifice  
Meter Runs

Special Approval has been granted by the Standards Branch to Petrogas Processing Limited for the use of two 14" Schedule 60 non-standard orifice meter runs at the Crossfield-Elkton Crossover.

Details of the meter run are as follows:

Identification No..	FE-41-5	FE-51-2
Nominal Pipe Size	14"	14"
Schedule	60	60
Inside Diameter	12.814	12.814
Maximum Flow	200 MMSCFD	200 MMSCFD
Normal Flow	170 MMSCFD	145 MMSCFD
Flow Pressure psig	775	800
Flow Temperature	86°F	100°F
Base Pressures psia	14.4	14.4
Base Temperature °F	60°F	60°F
Plant Elevation	3,597'	3,597'
Gas Mole Wt.	20.0	25.0
H <sub>2</sub> S %	0.9%	31.2%
CO <sub>2</sub> %	5.4%	10.4%
Pc psi	697	906
Tc °R	385	466
Z Factor (AZIZ Method)	0.87	0.85

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Meter Run Rating	600 ASA RF	600 ASA RF
Flange Taps	Yes	Yes
Upstream Straight Pipe	41'-0"	41'-0"
Downstream Straight Pipe	10'-8" (approx)	12'-0" (approx)
Beta $\left(\frac{d}{D}\right)$ ratio	0.70 (max)	0.70 (max)

The Basic Orifice Factor  $F_b$  for these meter runs shall be calculated in accordance with Appendix B, Gas Measurement Committee Report No. 3 revision No. 3 American Gas Association, since interpolation from the tables can produce significant errors.. The other factors for the flow calculations shall be taken from the tables in Report No. 3.

This approval is contingent upon the meter runs passing inspection of the Calgary District Office of Electricity and Gas.

*W.J.S. Fraser*  
W.J.S. Fraser  
Chief,  
Electricity and Gas Division.

cc. Mr. A.S. Park, Dist. Insp., Calgary  
Mr. J.M. Taylor, Regional Supervisor, Winnipeg  
Mr. H.E. van Stelten, Balzac, Alta.