



SPG-1S2  
1147-4  
3535-3

OTTAWA, July 28, 1972.

TEMPORARY SPECIAL APPROVAL

Granted to: Three Hills Gas Co-op. Ltd.,  
Three Hills, Alberta.

Attention: Bell & Fenske Consulting Engineering Ltd.,  
5627 21st. S.W.  
Calgary, Alberta.

Subject: Use of Pressure Factor in Gas Metering  
Installations.

Temporary Special Approval has been granted by the Standards Branch to Three Hills Gas Co-op. Ltd., to apply a pressure factor in the measurement of gas at the following installations under the stated conditions which apply in all cases:

|                              |   |
|------------------------------|---|
| Nature of Load               | Farmstead   |
| Service line pressure        | M.O.P. 50 psig  |
| Upstream regulator           | 3/4" Reliance 268-5/16" orifice   |
| Base pressure                | Atmospheric pressure plus 4 oz.   |
| Average atmospheric pressure | 2800 ASL-13.35 psi  |
| Pressure compensation factor | <u>Av. atm. press. + Req. press.</u>  |
|                              | Base pressure   |
| Meter type                   | Canadian Meter AL225 and AL425 posi:<br>displacement diaphragm meter as<br>listed. All meters temperature<br>compensated. |
| Downstream regulator         | 3/4 x 1" Reliance 1633B or 1833B 5/<br>orifice. Full capacity internal<br>relief, under pressure shutoff.                 |

This service may be subject to "spot checks" by the Electricity and Gas Inspection Service at any time with reasonable notice.



# CONSULTING ENGINEERING LTD.

••••• 5627 - 21 ST. S.W. CALGARY ••••• TELEPHONE 243 8497 •••••

## List of installations. (Three Hills Gas Co-op)

| <u>Station</u> | <u>Size of peak load (C.F.M.)</u> | <u>Metering pres. Psia.</u> | <u>Meter.</u> | <u>Pressure compensation factor.</u> |
|----------------|-----------------------------------|-----------------------------|---------------|--------------------------------------|
| S 3-32-22-W4M  | 600                               | 10#                         | AL 425        | 1.71691                              |
| S 4-32-22-W4M  | 650                               | 10#                         | AL 425        | 1.71691                              |
| S 4-31-23-W4M  | 700                               | 10#                         | AL 425        | 1.71691                              |
| S 6-31-23-W4M  | 650                               | 10#                         | AL 425        | 1.71691                              |
| S 4-31-23-W4M  | 650                               | 10#                         | AL 425        | 1.71691                              |
| S 5-32-22-W4M  | 200                               | 5#                          | AL 225        | 1.34926                              |
| S 8-32-22-W4M  | 200                               | 5#                          | AL 225        | 1.34926                              |
| S 0-32-22-W4M  | 200                               | 5#                          | AL 225        | 1.34926                              |
| S 0-32-22-W4M  | 200                               | 5#                          | AL 225        | 1.34926                              |
| S 4-32-23-W4M  | 200                               | 5#                          | AL 225        | 1.34926                              |
| S 7-32-22-W4M  | 200                               | 5#                          | AL 225        | 1.34926                              |
| S 7-32-22-W4M  | 200                               | 5#                          | AL 225        | 1.34926                              |
| S 2-32-23-W4M  | 200                               | 5#                          | AL 225        | 1.34926                              |
| S 1-32-23-W4M  | 200                               | 5#                          | AL 225        | 1.34926                              |
| S 6-31-23-W4M  | 200                               | 5#                          | AL 225        | 1.34926                              |
| S 6-32-22-W4M  | 200                               | 5#                          | AL 225        | 1.34926                              |
| S 5-32-22-W4M  | 200                               | 5#                          | AL 225        | 1.34926                              |
| S 5-32-22-W4M  | 200                               | 5#                          | AL 225        | 1.34926                              |
| S 5-32-22-W4M  | 200                               | 5#                          | AL 225        | 1.34926                              |
| S 5-32-22-W4M  | 200                               | 5#                          | AL 225        | 1.34926                              |
| S 5-32-22-W4M  | 200                               | 5#                          | AL 225        | 1.34926                              |
| S 3-31-22-W4M  | 200                               | 5#                          | AL 225        | 1.34926                              |
| S 1-32-23-W4M  | 200                               | 5#                          | AL 225        | 1.34926                              |
| S 6-31-23-W4M  | 200                               | 5#                          | AL 225        | 1.34926                              |
| S 2-32-23-W4M  | 200                               | 5#                          | AL 225        | 1.34926                              |
| S 1-32-23-W4M  | 200                               | 5#                          | AL 225        | 1.34926                              |
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| S 3-32-23-W4M  | 200                               | 5#                          | AL 225        | 1.34926                              |
| S 5-31-23-W4M  | 200                               | 5#                          | AL 225        | 1.34926                              |
| S 6-31-23-W4M  | 200                               | 5#                          | AL 225        | 1.34926                              |
| S 7-31-23-W4M  | 200                               | 5#                          | AL 225        | 1.34926                              |
| S 1-31-23-W4M  | 200                               | 5#                          | AL 225        | 1.34926                              |
| S 6-31-23-W4M  | 200                               | 5#                          | AL 225        | 1.34926                              |

Pressure factor for 10#      1.7169

Pressure factor for 5#        1.3492



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This approval is temporary and will expire when permanent regulations pertaining to pressure factor measurement are put into effect.

*W. J. S. Fraser*

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

c.c. Mr. A. S. Park  
Mr. W. A. Sayers

