

OTTAWA, March 22, 1978

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*On file*      *Noto admissio*

6635-R2-25

SPECIAL APPROVAL

Granted to:      Pelican Pipelines Ltd.,  
524 Calgary House,  
Calgary, Alta.

Attention:      Mr. D. Ursel, P. Eng.,  
Operations Manager

Subject:      Rockwell 12" Turbo Meter with Magnetic  
Pulse Generator

Special Approval has been granted by the Legal Metrology Branch to Pelican Pipelines Limited for the installation of a measuring system at Mildred Lake Site of Syncrude comprising one Rockwell 12" size Turbo meter, equipped with a pulse generator and with two auxiliary devices.

Details of the meter and auxiliary devices are as follows:

1. Rockwell Turbo Meter

Model designation	T-140, Mark II
Serial number	G1260016
Company number	No. 1
Max. rated pressure	1,440 psig
Change gears ratio	68/51

This turbine meter incorporates a saturable core pulse generator which, in conjunction with a 12 pole magnet generates pulses at a rate of 5.208 pulses per cu. ft.

2. Auxiliary Attachments

(i) Canadian, Model 100 BVI-CI	VCI-2363
Serial number	
Pressure range	0-1,500 psig
Temperature range	-20 <sup>0</sup> F to +140 <sup>0</sup> F
Input shaft capacity	1,000 cu. ft. per rev.
Atmospheric pressure	13.25 psia
Base pressure	14.65 psia
Base temperature	60 <sup>0</sup> F

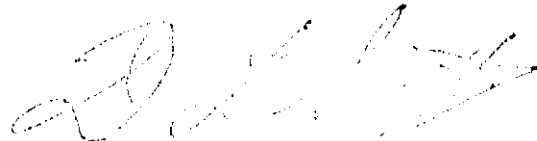
(ii) Mercury Instrument, Model 1238 VPT Recorder

Serial number	772247
Pressure range	0-1,500 psig
Temperature range	0-100 <sup>0</sup> F
Volume capacity per scallop	100,000 cu. ft.
Chart size	12 inch
Chart rotational speed	7 days

(iii) Mercury Model 101 Dual Instrument Drive Bracket

The pulse generating system, intended for control and operational purpose, is not approved to be used for billing applications.

This approval is contingent upon the turbine meter meeting the spin time requirements, as laid down in the Departmental Instructions for Inspection of Gas Meters and Auxiliary Devices and in the Technical Gas Circular G-76-4. The changed gear ratio shall also be verified before sealing the meter.



D.L. Smith,  
Chief,  
Electricity and Gas Division.

c.c. F. W. Nash, D.I.  
Edmonton, Alta.  
J. R. Stevenson, Rockwell International,  
Guelph, Ont.