

FORT ENERGY CORPORATION

8B REFRIGERATION UNIT

FORT ASSINIBOINE, ALBERTA

LSD: 15-10-62-06-W5M

SEPTEMBER, 2005

S.O.#: 054468

VOLUME 1

K-690.

FIELD SERVICES GROUP

Propak's Field Services Group, a part of the Compression and Field Services Department, provides complete field services for all your gas processing needs.

- Compressor revamps - ~~600A~~ ~~600B~~, 150 HP.
P8WB.
- Exchanger Re-tubing & Repairs
- Vessel Repairs & Modifications
- Maintenance & Repairs
- Piping Modifications & Repairs
- Tower Inspections & Re-traying
- Aerial Cooler Repairs
- Turnaround Planning
- Plant Mothballing
- Operator Training
- Plant Troubleshooting
- Extensive Parts Inventory
- Mycom Compressor Parts & Services
- Direct Fired Heater Coil, Burner, Refractory Repairs
- Direct Fired Heater Re-rating & Burner Management
- Engineering Feasibility & Plant Optimization Studies

Last Ran fall 2013.

Total hrs 53 900.

Last service 50 600.

AVAILABLE 24 HRS

QUALITY PRODUCTS AND SERVICE

Contacts: Service Ken Jeske

Office: 403-912-7250

Cell: 403-818-0889

Home: 403-948-5470

Phone Service: 403-912-7000

Toll Free: 1-800-408-4434 (Canada & US)

3. BASIS OF DESIGN

3.1 Design Basis

The plant has been designed on the basis of the following inlet conditions, flowrates and analysis.

Gas flowrate:	339.8 x 10 ³ M3 (12.0 MMSCFD) (does not include recycle gas)
Inlet Pressure:	4800 kPa(g) (696 psig) (Fridge Plant)
Inlet Temperature:	normal 48.8°C (120 °F)
LTS Temperature:	-21°C (-5 °F) @ 12 MMSCFD
Equipment Design:	8963 kPa(g) @ -28.8 / 66°C (1300 psig)

INLET GAS COMPOSITION (mole percent)

H2O	Saturated
HE	0.03
N2	0.90
CO2	2.00
C1	90.37
C2	4.51
C3	1.33
I-C4	0.25
N-C4	0.26
I-C5	0.10
N-C5	0.08
C6	0.08
C7	0.09
C8	Trace
C9	Trace
C10	Trace
Cyclopentane	0.00
MCyclopentane	0.00
<u>Mcyclohexane</u>	<u>0.00</u>
TOTAL	100.00

**FORT ENERGY CORPORATION
6B STOCK REFRIGERATION PLANT**

CORBETT GAS PLANT

LSD: 15-10-62-06 W5M

OCTOBER, 2004

S.O.#: 043167

K-640.



Product and Field Services Group

ENGINEERS, FABRICATORS & CONSTRUCTORS FOR OIL & GAS PROCESSORS

PROCESS | PARTS | SERVICE

Toll Free: 1-800-408-4434
Phone: 403-912-7000
Fax: 403-912-7252
Email: parts@propaksystems.com
Web: www.propaksystems.com

Service: Pat Randall 403-912-7257
randall@propaksystems.com
Parts: Sean Corcoran 403-912-7367
scorcoran@propaksystems.com

Propak Compression's Product and Field Service group provides complete field services for all of your gas processing needs, including:

- Engineering feasibility and plant optimization studies
- Plant troubleshooting
- Plant mothballing
- Turnaround planning
- Operator training
- Maintenance and repairs
- Vessel repairs and modifications
- Exchanger re-tubing and repairs
- Aerial cooler re-rating and repairs
- Direct fired heater re-rating and burner management
- Direct fired heater coil, burner and refractory repairs
- Tower inspections and re-traying
- Piping modifications and repairs
- Extensive parts inventory
- Mycom screw compressor parts and service
- Compressor revamp

PGWB
Currently running
@ 73100 hrs.

*** ALL YOUR PROCESS PARTS & SERVICE NEEDS ***

PARTS AND SERVICE: 24 HOURS A DAY | 7 DAYS A WEEK | 52 WEEKS A YEAR

WITH PROPAK COMPRESSION YOU CAN EXPECT MORE AND SPEND LESS

Revised: January 12, 2004

3.3 Product Specifications

Propak Systems Ltd., based on the inlet conditions, guarantees the following product specifications, flowrates and analysis stated earlier. Product rates may vary $\pm 5\%$ due to uncertainty in equilibrium calculations.

Residue Gas Volume:	7.9 MMSCFD
Residue Gas Dewpoint:	under 15°F @ 800 psig
Residue Gas Temperature:	under 120°F
Residue Gas Pressure:	(Maximum plant pressure drop 35 psig)
Stabilized Volume:	9.5 BBLS/D @ 865 psig operating.
C5+ RVP:	12 psia @ 100°F
C5+ Temperature:	120°F or less