

REFRIGERATION PLANTS

Client: _____ Date: _____

Project: _____ Contact: _____

Location: _____ PSL Reference: _____

1. PROCESS DATA

1. _____

1.1 Gas Flowrate

1.1 _____

Source: _____

Maximum – MMSCFD _____

Minimum – MMSCFD _____

1.2 Inlet Free Liquids

1.2 _____

Source: _____

HC - Bbl/MMSCF _____

H₂O - Bbl/MMSCF _____

1.3 Inlet Pressure

1.3 _____

Maximum - psig _____

Minimum - psig _____

1.4 Inlet Temperature

1.4 _____

Maximum - °F _____

Minimum - °F _____

1.5 Gas Composition

1.5 _____

<u>Component</u>	<u>Mole %</u> _____	_____
He	_____	_____
N ₂	_____	_____
CO ₂	_____	_____
H ₂ S	_____	_____
C ₁	_____	_____
C ₂	_____	_____
C ₃	_____	_____
iC ₄	_____	_____
nC ₄	_____	_____
iC ₅	_____	_____
nC ₅	_____	_____
C ₆	_____	_____
C ₇	_____	_____
C ₈₊	_____	_____
Total	_____	_____

1.6 Liquid Composition

1.6 _____

<u>Component</u>	<u>Mole %</u> _____	_____
He	_____	_____
N ₂	_____	_____
CO ₂	_____	_____
H ₂ S	_____	_____
C ₁	_____	_____
C ₂	_____	_____
C ₃	_____	_____
iC ₄	_____	_____
nC ₄	_____	_____
iC ₅	_____	_____
nC ₅	_____	_____
C ₆	_____	_____
C ₇	_____	_____
C ₈₊	_____	_____
Total	_____	_____

1.7 Compression Upstream 1.7 _____

Yes/No _____

1.8 Outlet Pressure 1.8 _____

Pipeline: psig _____

1.9 Ambient Temperature 1.9 _____

Maximum - °F _____

Minimum - °F _____

1.10 Plant Purpose 1.10 _____

a) Maximize Liquids _____

b) H.C. Dewpoint Control _____

2. PRODUCT DATA 2. _____

2.1 Sales Gas 2.1 _____

H.C. Dewpoint Required _____

°F _____

at - psig _____

Water Content: _____

pounds/MMSCF _____

Heating Value

BTU/SCF _____

Net _____

Wet _____

Gross _____

Dry _____

2.2 Liquid Product Required 2.2 _____

Stabilized Condensate _____
(C₅+)
RVP Required _____
LPG Mix (C₃+)
Fractionation _____
(Attach Specifications) _____

2.3 Residue Gas (Off Tower) 2.3 _____

Recycle To: _____
a) Inlet _____
b) Sales _____

Send To: _____
a) Flare _____
b) Vent _____

3. MECHANICAL DATA 3. _____

3.1 Plant Design Pressure 3.1 _____

psig _____

3.2 Corrosion Allowance 3.2 _____

inches _____

3.3 Power Available

3.3 _____

Yes/No _____

Voltage Maximum _____

Phases _____

Cycles: Hertz _____

3.4 Controls

3.4 _____

Pneumatic _____

Electric _____

Panel - Local/Remote _____

3.5 Alarms

3.5 _____

Transmission (Remote) _____

Gas Detection _____

Local Alarm _____

Fire Detection _____

3.6 Metering

3.6 _____

Sales Gas _____

Recycle Gas _____

Inlet Gas _____

Liquid Product _____

Flare Volume _____

3.7 Heating System (Process) 3.7 _____

Direct Fired Reboilers	_____	_____
Heating Fluid		
Indirect System	_____	_____
Mounted On Skid	_____	_____
Mounted Off Skid	_____	_____
Other	_____	_____

3.8 Building Required 3.8 _____

Yes/No	_____	_____
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3.9 Storage 3.9 _____

C ₅ + Atmos. - Tank		_____
- # Days/Bbl's	_____	_____
C ₃ + LGP Bullet		_____
- # Days/Bbl's	_____	_____