

## ***SWEETENING 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 \_\_\_\_\_

\_\_\_\_\_

H<sub>2</sub>O - 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 <sub>2</sub>	_____
CO <sub>2</sub>	_____
H <sub>2</sub> S	_____
C <sub>1</sub>	_____
C <sub>2</sub>	_____
C <sub>3</sub>	_____
iC <sub>4</sub>	_____
nC <sub>4</sub>	_____
iC <sub>5</sub>	_____
nC <sub>5</sub>	_____
C <sub>6</sub>	_____
C <sub>7</sub>	_____
C <sub>8+</sub>	_____
Total	_____

\_\_\_\_\_

He \_\_\_\_\_

\_\_\_\_\_

N<sub>2</sub> \_\_\_\_\_

\_\_\_\_\_

CO<sub>2</sub> \_\_\_\_\_

\_\_\_\_\_

H<sub>2</sub>S \_\_\_\_\_

\_\_\_\_\_

C<sub>1</sub> \_\_\_\_\_

\_\_\_\_\_

C<sub>2</sub> \_\_\_\_\_

\_\_\_\_\_

C<sub>3</sub> \_\_\_\_\_

\_\_\_\_\_

iC<sub>4</sub> \_\_\_\_\_

\_\_\_\_\_

nC<sub>4</sub> \_\_\_\_\_

\_\_\_\_\_

iC<sub>5</sub> \_\_\_\_\_

\_\_\_\_\_

nC<sub>5</sub> \_\_\_\_\_

\_\_\_\_\_

C<sub>6</sub> \_\_\_\_\_

\_\_\_\_\_

C<sub>7</sub> \_\_\_\_\_

\_\_\_\_\_

C<sub>8+</sub> \_\_\_\_\_

\_\_\_\_\_

Total \_\_\_\_\_

\_\_\_\_\_

1.6 Liquid Composition

1.6 \_\_\_\_\_

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

1.7 Downstream of Compressor? 1.7 \_\_\_\_\_

Yes/No \_\_\_\_\_

1.8 Ambient Temperature 1.8 \_\_\_\_\_

Maximum - F \_\_\_\_\_

Minimum - F \_\_\_\_\_

1.9 Amine Type 1.9 \_\_\_\_\_

a) MEA \_\_\_\_\_

b) DEA \_\_\_\_\_

c) MDEA \_\_\_\_\_

d) DGA \_\_\_\_\_

e) Other (Specify) \_\_\_\_\_

## 2. PRODUCT DATA 2. \_\_\_\_\_

2.1 Sales Gas 2.1 \_\_\_\_\_

H<sub>2</sub>S Limit - PPM \_\_\_\_\_

CO<sub>2</sub> Limit - % Maximum \_\_\_\_\_

Maximum H<sub>2</sub>O Content \_\_\_\_\_

Pounds/MMSCF \_\_\_\_\_

2.2 Sales Pressure Required 2.2 \_\_\_\_\_

PSIG - Maximum \_\_\_\_\_

PSIG - Minimum \_\_\_\_\_

2.3 Acid Gas To 2.3 \_\_\_\_\_

Flare \_\_\_\_\_

Sulphur Plant \_\_\_\_\_

SO<sub>2</sub> Emission Limit \_\_\_\_\_

2.4 Sour Liquid Treating 2.4 \_\_\_\_\_

Yes/No \_\_\_\_\_

2.5 Sour Water 2.5 \_\_\_\_\_

Disposal Yes/No \_\_\_\_\_

Stripping Yes/No \_\_\_\_\_

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 \_\_\_\_\_

3.4 Controls 3.4 \_\_\_\_\_

Pneumatic Yes/No \_\_\_\_\_

Electric Yes/No \_\_\_\_\_

3.5 Alarms 3.5 \_\_\_\_\_

Local Panel Yes/No \_\_\_\_\_

Remote Panel Yes/No \_\_\_\_\_

H<sub>2</sub>S Detection \_\_\_\_\_

Gas Detection \_\_\_\_\_

Fire Detection \_\_\_\_\_

3.6 Metering 3.6 \_\_\_\_\_

Sales Gas \_\_\_\_\_

Inlet Gas \_\_\_\_\_

Flare \_\_\_\_\_

Other \_\_\_\_\_

Local or Remote \_\_\_\_\_

3.7 Heating System (Process) 3.7 \_\_\_\_\_

Direct Fired \_\_\_\_\_

Indirect (Source) \_\_\_\_\_

On Skid \_\_\_\_\_

Off Skid \_\_\_\_\_

3.8 Winterizing 3.8 \_\_\_\_\_

Building Yes/No \_\_\_\_\_

Heat Tracing Yes/No \_\_\_\_\_

3.9 Storage

3.9 \_\_\_\_\_

H<sub>2</sub>O Make-Up Days \_\_\_\_\_

\_\_\_\_\_

Solvent (Amine) Days \_\_\_\_\_

\_\_\_\_\_

3.10 Fire Suppression

3.10 \_\_\_\_\_

Fire Water \_\_\_\_\_

\_\_\_\_\_

Chemical \_\_\_\_\_

\_\_\_\_\_