

40 MMSCFD Natural Gas Processing Plant – Inspection Report



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1. Executive Summary

1.1 Plant History

- Plant was built in 2015.
- Plant shut down in 2018.

1.2 Production Capacity

- Processes 40 MMSCFD of sour natural gas, along with 300 BPD of associated hydrocarbon condensate and 150 BPD of produced water.

1.3 Sales Gas Specifications

Item	Unit	Sales Gas
Maximum CO ₂	Mol %	<3.5
Maximum H ₂ S	grains/100 SCF	<1 (16ppm)
Hydrocarbon Dew point temperature	°C	< 10°C at delivery pressure
Max nitrogen	Mol%	<6
Water dew point	°C	<0°C
Delivery Temperature	°C	<60°C
Specific Gravity relative to Air		0.5-.07
Gross Heating Value	BTU/SCFH	950-1100

1.4 Available Documents

- Basis of Design
- Civil Engineering Drawings
- Electrical Diagrams
- Equipment Lists
- Instrumentation Drawings
- Material Selection Sheets
- Mechanical Drawings
- PFDS & P&IDS
- Piping Diagrams
- Process Description
- Structural Drawings
- Utility Summary

2. Process Description

- See process description document.

3. Utility Consumption

- See utility summary document.

4. Highlights of Major Equipment

- Pig Receiver
- Slug Catcher
- Inlet Liquid Separator
- Condensate Heater
- Condensate Flash Drum
- Condensate Transfer Pumps
- Condensate Storage Tank
- Condensate Export & Metering
- Inlet Gas Filter/Coalescer
- Amine Contactor & Treated Gas Cooler
- Treated Scrubber & Gas/Gas Exchanger
- H.M.O. Heater
- Amine Flash Tank
- Amine Exchange & Pumps
- Amine Still Surge & Reboiler
- Amine Filter, Charcoal Filter & Cooler
- Amine Circulation Pumps
- Amine Still Reflux Condenser
- Reflux Accumulator
- Cold Separator
- Sales Gas Metering
- EG Regeneration
- Glycol Pumps & Filtration
- Produced Water Treatment Package
- Flare System
- Closed Drain System
- Incinerator Package
- Instrument & Utility Air System
- Diesel Generator Set
- Chemical Injection Packages
- Potable Water Tank
- Potable Water Pump
- Fuel Gas System
- Demineralized Water Package
- Demineralized Water Storage Vessel & Pumps
- Open Drain System
- Sour Water Stripper
- Water Collection Pit
- Nitrogen Bottles

For more details or to discuss this plant, contact:

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