



Pipeline Specification Summary

KA - Tony Creek Mainline

General Description:

The Tony Creek Pipeline is a 8" Pipeline which transports High Pressure Wet Sour Gas 15 Kilometers from 07-22-61-21W5 to the Kaybob Amalgamated Gas Plant at 1-12-62-20W5. Valve Stations and Tie-in points are installed along the length at several locations. Interconnection with other pipeline systems and processing plants has been utilized to re-route gas from one system / plant to another as required.

Pipeline Static Data:			
Medium:	High Pressure Wet Sour Gas		
License Approval :	32399	License H2S :	20 %
Diameter :	8"	Length :	15.5 Kms.
M.O.P :	9930 Kpa.	Normal Operating Pres.	6500 – 7500 Kpa.
ANSI Rating :	600 RTJ		

Tie-In / ESD Locations:		
STN 01	07-10-61-22	Valve Station – Producer T/I – Pigging Facility- TC Ext
STN 02	1-25-61-21	Block Valve, Lineheater, producer T/I's
STN 03	14-27-61-21	Block Valve, Lineheater
STN 04	1-12-62-20	Block Valves, Pig Receiver, ESD

Tie In Specifications

Section A: WELLSITE Requirements

Gas Quality – Piping Configuration, Equipment & Reporting	
Dehydration	Production Must be routed to downstream dehydration.
H2S Composition (Max.)	20 %
Separation Equipment	2 Phase – 3 Phase
Condensate	Combined with Gas Stream or Tanked - Trucked
Water	Tanked - Trucked
Metering	EFM (Electronic Flow Measurement)
Fuel Gas – (Site Supplied)	Metered or Estimate
Fuel Gas – (External Source)	No data required.
SCADA	Required for all direct T/I's
Gas & Liquids Sampling	Required as per Manual requirements
Daily Reporting Method	SemCAMS SCADA, Customer SCADA, Fax, e-mail

Section B: DOWNSTREAM FACILITY Requirements**Gas Quality**

H2S Composition (Max.)	20%		
Temperature (Max)	50 ^o Celcius		
Water Dewpoint (combined stream)	Not Required		
Condensate	Re-injection		
BS&W	Not Required		
Water	Yes, volumes must be approved by SemCAMS		
Methanol	YES - Inhibited MeOH		
Corrosion Inhibitor Injection	YES	Type:	Champion RU 196
Sulphur Dispersants - Solvents	NONE		
Operational Liquids	NONE (Cleaning Solvents/Hydro/PL Initial Batch...)		
Operational Gasses	NONE (Purge Gasses N2 / CO2 / Air / ...)		

Piping - Configuration & Equipment

Dehydration Type	Not Required		
Dewpoint Auto Shut-in / Recycle	NONE	Set Point:	-10 ^o Celcius
Dewpoint Analyzer	NONE		
BS&W Analyzer	NONE		
BS&W Auto Shut-in / Diversion	NONE		
Metering – Gas Production	EFM		
Metering – Condensate Production	EFM		
Metering - Water	EFM, if water is recombined		
Metering – Fuel Gas (site supplied)	EFM Metered or Estimate		
Metering – Fuel Gas (external)	Not Required		
Compressor Recycle	Required – Pressure Control		
Flare & Recycle Connections	Upstream of Sales Meter		

SemCAMS SCADA:

Flow Measurement (Sales)	Required		
Remote ESD	Required (Supplied at tie-in location)		
Compressor Run Status	Required		
Dewpoint Analyzer Status	NONE		

Section C: SemCAMS Pipeline T/I Point Requirements**Piping Configuration and Equipment**

Pipe Specification (above ground)	SemCAMS SP-60		
Pigging Facilities	Required		
ESD Valve	Required		
Check Valve	Required		
Drains & Vents	Required		
Cathodic Protection – Insulating Kit	Required	Type:	Pikotek
Future Connection	Required		
Corrosion Monitoring Coupon	Required		

SemCAMS SCADA:

Pressure	Required		
ESD Valve Position	Required (Open – Moving – Closed)		
Remote ESD	Required (SemCAMS Control)		
ESD – Local PSHH	Required	Set Pressure:	
ESD – Local PSLL	Required	Set Pressure:	
TEG Status	Required		