



Pipeline Specification Summary

K3 – Simonette Pipeline

General Description:

The Simonette Pipeline is a 12" pipeline which transports High Pressure Dry Sour Gas 110 Kilometers from 16-17-64-26W5 to the SemCAMS K3 Gas Processing Plant located at 03-15-59-18W5. ESD Valve Stations and Tie-in points are installed along the length at several locations. Interconnection with other pipeline systems and processing plants are utilized to re-route gas from one system / plant to another as required.

Pipeline Static Data:			
Medium:	High Pressure Dry Sour Gas		
License Approval :	28053 Line 2 & 3	License H2S :	30 %
Diameter :	12"	Length :	67 Kms.
M.O.P :	14,600 /12,600	Normal Operating Pres.	7200 – 9000 Kpa.
ANSI Rating :	900 RTJ		

Tie-In / ESD Locations:		
STN 1	16-17-64-26W5	Compressor / Dehydration Facility – Pig Launching Facility
STN 112	03-02-64-26W5	Producer Tie-in (FES)
STN 2	03-17-63-25W5	ESD Valve Station
STN 213	06-08-63-25W5	Producer Tie In (FES)
STN 3	11-20-62-24W5	ESD Valve Station
STN 4	02-26-61-24W5	ESD Valve Station
STN 5	15-05-61-22W5	ESD Valve Station
STN 6	11-17-60-21W5	ESD Valve Station
STN 617	12-25-59-21W5	Producer Tie In (FES) - Untapped
STN 7	10-13-59-21W5	ESD Valve Station
STN 8	14-04-59-19W5	ESD Valve Station
STN 9	03-15-59-18W5	K3 Gas Plant & Pig Receiver Facility

Tie In Specifications

Section A: WELLSITE – Separation and Metering	
Gas Quality – Piping Configuration, Equipment & Reporting	
Dehydration	Production Must be routed to downstream dehydration.
H2S Composition (Max.)	30 %
Separation Equipment	Effluent – 2 Phase – 3 Phase
Condensate	Combined with Gas Stream – Tanked - Trucked
Water	Combined with Gas Stream – Tanked - Trucked
Metering	EFM (Electronic Flow Measurement)
Fuel Gas – (Site Supplied)	Metered or Estimate
Fuel Gas – (External Source)	No data required.
SCADA	Recommended
Gas & Liquids Sampling	Required
Daily Reporting Method	SemCAMS SCADA, Customer SCADA, Fax, e-mail
Section B: DOWNSTREAM FACILITY – Dehydration & Compression	
Gas Quality	

H2S Composition (Max.)	30%		
Temperature (Max)	50 ⁰ Celcius		
Water Dewpoint (combined stream)	Minus 10 Deg. C at operating pressure		
Condensate	NO "Free" Hydrocarbon liquid injection		
BS&W	N/A – see above.		
Water	NONE		
Methanol	NONE		
Corrosion Inhibitor Injection	YES	Type:	Baker Petrolite CGW 4048
Sulphur Dispersants - Solvents	NONE (DADS, MDS...)		
Operational Liquids	NONE (Cleaning Solvents/Hydro/PL Initial Batch...)		
Operational Gasses	NONE (Purge Gasses N2 / CO2 / Air / ...)		

Piping - Configuration & Equipment

Dehydration Type	Glycol or Mole Sieve		
Dewpoint Auto Shut-in / Recycle	Required	Set Point:	-10 ⁰ Celcius
Dewpoint Analyzer	Electronic Continuous Monitoring w/ Auto Shut-in		
BS&W Analyzer	N/A		
BS&W Auto Shut-in / Diversion	N/A		
Metering – Gas Production	EFM		
Metering – Condensate Production	N/A		
Metering - Water	N/A		
Metering – Fuel Gas (site supplied)	EFM Metered or Estimate		
Metering – Fuel Gas (external)	Not Required		
Compressor Recycle	Required – Pressure Control & Dehydration Control		
Flare & Recycle Connections	Upstream of Sales Meter		

SemCAMS SCADA :

Flow Measurement (Sales)	Required		
Remote ESD	Not Required (Supplied at tie-in location)		
Compressor Run Status	Required		
Dewpoint Analyzer Status	Required		

Section C: Tie-In Point – to SemCAMS Pipeline

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 PSLI	Required	Set Pressure:	
TEG Status	Required		