



Pipeline Specification Summary

K3 – FIR Pipeline

General Description:

The Fir Pipeline is a 10" pipeline which transports High Pressure Dry Sour Gas 42 Kilometers from 15-32-58-21W5 to the SemCAMS K3 Gas Processing Plant located at 03-15-59-18W5. Isolation 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 :	11706 Lines 1,2,3	License H2S :	3 %
Diameter :	10"	Length :	42 Kms.
M.O.P :	11840 Kpa	Normal Operating Pres.	7200 – 8000 Kpa.
ANSI Rating :	900 RTJ		

Tie-In / ESD Locations:		
STN 0	15-32-58-21W5	Producer Tie in and Pig Launcher Facilities
STN 1	01-01-59-21W5	Isolation Block Valve Riser
STN 112	06-05-59-20W5	Producer Tie-in (FES) & Fir-Spotter Interconnect
STN 2	03-12-59-20W5	Isolation Block Valve Riser & Producer Tie-in
STN 3	12-03-59-19W5	Isolation Block Valve Riser – Athabasca River West
STN 4	10-03-59-19W5	Isolation Block Valve Riser – Athabasca River East
STN 5	04-15-59-18W5	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.)	3 %
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.)	3%
Temperature (Max)	50° Celcius
Water Dewpoint (combined stream)	Minus 10 Deg. C at operating pressure
Condensate	Accepted - Hydrocarbon liquid injection
BS&W	Required

Water	NONE
Methanol	NONE
Corrosion Inhibitor Injection	YES Type: Champion R-2378
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	Electronic Continuous Monitoring
BS&W Auto Shut-in / Diversion	Required
Metering – Gas Production	EFM
Metering – Condensate Production	EFM
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 PSLL	Required Set Pressure:
TEG Status	Required