



Pipeline Specification Summary

KA - Dunvegan Extension - Shallow Gas

General Description:

The Dunvegan Extension Sweet Gas Pipeline is an 8" which transports High Pressure Dry Sweet Gas 5 Kilometers from 15-24-60-22W5 to the 7-10-62-22W5 (Dunvegan Shallow Gas Pipeline). 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 Dry Sweet Gas		
License Approval :	27531	License H2S :	0 %
Diameter :	8"	Length :	5 Kms.
M.O.P. :	12000 Kpa.	Normal Operating Pres.	6500-7000 Kpa.
ANSI Rating :	900 RTJ		

Tie-In / ESD Locations:		
STN 01	15-24-60-22	Valve Station – Producer T/I
STN 02	7-10-61-22	Block Valve, Producer T/I, transition to 10", Pig Barrel

Tie In Specifications

Section A: WELLSITE Requirements

Gas Quality – Piping Configuration, Equipment & Reporting	
Dehydration	Production must be routed to a downstream dehydration
H2S Composition (Max.)	0 %
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.)	0%		
Temperature (Max)	50 ^o Celcius		
Water Dewpoint (combined stream)	Minus 10 Deg C at operating pressure		
Condensate	Re-injection allowed		
BS&W	Max 0.2%		
Water	Tanked		
Methanol	NONE		
Corrosion Inhibitor Injection	YES	Type:	Champion
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	Glycol or Mole Sieve		
Dewpoint Auto Shut-in / Recycle	Required	Set Point:	-10 ^o Celcius
Dewpoint Analyzer	Electronic Continuous Monitoring w/ Auto Shut-in		
BS&W Analyzer	Required		
BS&W Auto Shut-in / Diversion	Electronic Continuous Monitoring w/Auto Shut-in		
Metering – Gas Production	EFM		
Metering – Condensate Production	EFM		
Metering - Water	NO Tanked		
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	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		