Pipeline Specification Summary

K3 - Kaybob West Pipeline

General Description:
The Kaybob West Pipeline is a 12" Pipeline which transports High Pressure Dry Sour Gas 67 Kilometers from 07-16-59-35W5 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**	License H2S :	**30 %**
Diameter :	**12"**	Length :	**67 Kms.**
M.O.P :	**12,600 Kpa.**	Normal Operating Pres.	**7200 – 8500 Kpa.**
ANSI Rating :	**900 RTJ**		

Tie-In / ESD Locations:		
STN 1	07-16-59-24	Compressor / Dehydration Facility – Pig Launching Facility
STN 2	16-18-59-23	ESD Valve & Tie-in
STN 213	14-18-59-22	Producer Tie In (FES)– Interconnect (8" Berland Pipeline ⇔)
STN 3	11-14-59-22	ESD Valve & Tie-in
STN 314	09-18-59-22	Producer Tie In (Hot Tap)
STN 4	10-13-59-21	ESD Valve & Tie In - Interconnect (Simonette ⇔ & Spotter ⇔)
STN 415	10-18-59-20	Producer Tie In (FES)
STN 425	16-09-59-20	Tie In (FES) – Not In Service – Untapped.
STN 5	14-04-59-19	ESD Valve & Tie In (Shared Site with Simonette Pipeline)
STN 6	03-15-59-18	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	NO		
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 PSLL	Required	Set Pressure:	
TEG Status	Required		