

PROJECT: EPC FOR MODIFICATION OF 10" NGL HABSHAN – BAB PIPELINE

Oil & Gas



AL NASR SCOPE OF WORKS:

- Replacement of the 0.510 km of Pipeline from KP2+003 to KP 2+513
- Demolition of the existing 0.510 km corroded section of pipeline
- Installation of two isolation valves for launcher and receiver on each scraper station
- Modification of piping arrangement to fit the two valves
- Installation of drainage connection between the two isolation valves and connection to the existing drainage system.
- Provision of cathodic protection and CP connections for the replaced section
- Provision of required support of the new installation.

Construction

The Construction was divided in to two phases as follows:

Pre-shut down phase consisting of:

Pipeline

- Trail pit excavation to identify the location of existing 10" NGL line
- Berm Removal and ROW preparation
- Trench excavation
- Dewatering at tie-in locations
- 3LPE coating of pipes
- Cold bending of pipes
- Pipe Stringing, welding and NDT
- Hydro test and drying of pipeline
- Installation of heat shrink sleeve and holiday testing
- Lowering and backfilling (except tie-in locations)

Launcher / Receiver

- Breaking of existing concrete support
- Casting of new concrete support in-situ

Client: GASCO

Contractor: Al Nasr Contracting Co. L.L.C

Contract Period: 15/03/2015- 15/09/2015

PROJECT STATISTICS

Peak manpower	120
Man- hours accident free	97,962
Total lost time through incidents	Zero
Equipment hours accident free	21,000
Total pipeline Laid	1510 m



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- Fabrication, NDT, testing and painting of piping spools
- Fabrication and painting of structural steel supports
- Testing and painting of valves

2. Shut down phase (3 Weeks)

Pipeline

- Decommissioning of existing 10” NGL pipeline i.e. valve isolation, padding, blinding, pigging, transfer contaminated NGL to burn pit, N2 purging and inerting.
- Removal of coating, NDT at tie-in location
- Cold cutting of pipeline at KP 2+003 & KP 2+513
- Tie-in welding, NDT, heat shrink sleeve installation and holiday test
- Backfilling of tie-in locations
- Excavation and expose the existing redundant 10” NGL pipeline – 30 mtrs. At either side of tie-ins and from KP 2+265 to KP 2+513.
- Expose and demolish redundant pipeline from Km 2+003 till 2+029 and from 2+265 till 2+513 by cutting the redundant pipe to the section pieces and transport to GASCO designated store in Habshan.
- Capping of the open ends of redundant pipeline at KP 2+029 & KP 2+265 and fill the line with concrete in line with approved method statement.
- Installation of signed board as per pipeline alignment sheet and on the location of concrete filling pipeline
- CP pin brazing and installation of posts
- Construction of berm and reinstatement of area
- Launcher / Receiver
- Cold cutting, de-bolting and removal of existing spool with valves
- Welding and NDT for tie-in joints
- Installation of newly procured valves along with modified piping spools
- Touch up painting

Once the above activities were completed, the new 10” NGL line was successfully commissioned and handed over to GASCO Operation on 2 September 2015 ahead of project schedule.