

GEOCEAN

REFERENCES

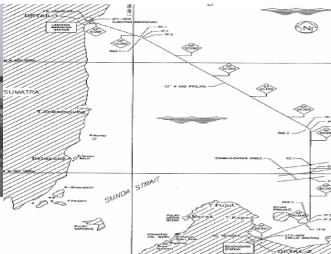


SISI NUBI FIELD DEVELOPMENT PROJECT for HHI, Hyundai Heavy Industries and TOTAL E&P Indonésie

Approximately 20km of 26'' gaz pipeline laying in shallow water area and Onshore part, Kalimantan Indonesia

GEOCEAN SCOPE OF WORK:

- ✓ Management (above 400 persons and associated marine spread)
- ✓ Installation detailed engineering (105 documents)
- ✓ Procurement of integrated and temporary items
- ✓ Pre trenching works at Onshore part, Approximately 900m length in soft mud,
- ✓ Pre-Dredging works at very shallow water area and land fall
- ✓ Installation of 19km Nearshore pipeline by S laying using automatic welding systems
- ✓ 1050m of pipeline push-pull installation
- ✓ 18.5km of post-trenching operation
- ✓ 6 existing live pipelines crossings
- ✓ 2 Nearshore tie in by barge side lifting



TIME SCHEDULE

Letter of Intent: 17th of February 2006
Engineering: March 2006 to February 2007
Preparatory works spread mobilization : July 2006
Laying spread mobilisation : August 2006
Site works: May 2006 to May 2007

SISI NUBI FIELD Development Project – 2006/07

26'' Gas Pipeline Installation

PIPE LAY BARGE

Hull: 280' x 90' x 18'
Classification: Lloyds Register +100A Pontoon
Year built: 2004
Flag: Indonesian
Mooring: 10 x 1km x Φ 1"1/2

PIPE LAYING FACILITIES

Hydraulic tensioner 2 x 10 tons
Electric tensioner 30T @25m/min
30T A&R winch
10' lead chamber for X ray
Outrigger 15m
Ballastable stinger 24m
Tunnel compatible with Serimer Dasa Automatic Welding
1 crane American Crawler Model 9310 A
1 backhoe 3,5t Kobelco
6 davits 25 tons equipped with airtuggers 5T

SAFETY

1 150 000 man hours
No fatal accidents, 9 near miss
TOTAL E&P Indonésie safety standard and specifications

MARINE SPREAD

MARIAM Pipe Lay Barge
2 Crane barges
Accommodation barges CB1, TB & NAKULA
Diving Support Vessel (DSV)
4 Survey boats
2 Anchor Handling Tugboat (AHT)
3 Main Tugboats
6 seatrucks and 15 Speed boats
3 Crew boats



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