

TROYA

-Energy Services-

COMPANY PROFILE



In 1997, **TROYA** is established by 3 leading expert Petroleum and Natural Gas Engineers in order to provide service to oil production companies. Today, Troya is trying to submit the best solutions to clients in oil, gas and geothermal industry with its experienced founders and dynamic personnel who successfully completed projects and having domestic and outland experiences.

TROYA has completed its every project successfully. By fulfilling every requirement of Standards, ISO 9001, ISO 14001 and OHSAS 18001 certifications were acquired. It performed all committed projects by applying every requirement of Health, Safety and Environmental Policy. It is precisely for these reasons; Troya believes that it has a reference list of high-class, capable to compete with world and caught the improved technology.

TROYA is watching innovations closely and trying to be better in each new project compared to previous ones. Moreover, Troya always cares the education of own personnel due to believing that the education is a continued process.

Fields of Activity:

- Drilling Engineering and Consultancy Services
- Production Engineering and Consultancy Services
- Design, Engineering, Manufacturing and Assembly of Production Facilities Equipment
- Engineering and Construction of Pipelines
- Material Supply
- Engineering and Consultancy Services for Underground Natural Gas Storage

ENGINEERING & CONSULTANCY

1. Upstream

Drilling Engineering

- Drilling Management
- Preparing Drilling Programs
- Drilling Rig Optimization and Selection
- Drilling Material Procurement and Logistics
- Well Site Drilling Engineering

Production Engineering

- Well Completion and Work-over Programs
- Production Wellhead Design
- Downhole Pump Design

Underground Gas Storage

For Drilling, Civil and Mechanical Engineering and Automation Topics

- Design and Basic Engineering Studies
- Consultancy

2. Midstream

Hydraulic Process Analysis

- Gathering Line Network and Station Analysis
- Hydraulic Calculations
- Heat & Material Balance
- Flash Calculations
- Preliminary Sizing of Piping and Instruments

Pressurized Vessel Design & Analysis

- ASME Section VIII Pressurized Vessel Design and Analysis
- Saddle, Leg and Skirt Design
- Wind and Seismic Analysis

Storage Tank Design & Engineering

- API 650
- API 12F
- TS 12285-2
- Calculations

Oil & Gas Field Equipment Design & Engineering

- II & III Phase Separator
- Flare KOD and Stacks
- Metering Stations
- Field Manifold and Collectors

OIL / NATURAL GAS PRODUCTION FACILITIES

1. Oil and Natural Gas Well Gathering Lines and Transmission Pipelines

- Wellhead Flowlines
- Pipeline Route Studies
- Trench Excavation and Special Crosses
- Welding, Welding Coating, and Inspections
- Hot-tap
- Tie-in Processes
- Cathodic Protection
- Hydrostatics Test and Commissioning
- Field Gathering Manifolds

2. Oil and Natural Gas Production Stations

- Gathering Station Inlet Manifolds
- API 12 J Separator Manufacturing, Assembly and Commissioning
- API 12 L Heater Treater Manufacturing, Assembly and Commissioning
- Free Water Knockout Manufacturing, Assembly and Commissioning
- Flare Manufacturing, Assembly and Commissioning
- API 650 Oil Stock Tanks Manufacturing
- EN 12285-2 Tank Manufacturing
- Crude Oil Loading Facilities
- Construction of Early or Permanent Production Facility
- Construction of Natural Gas Pressure Regulation and Measurement Stations

MATERIAL SUPPLY

Troya Oil and Gas Engineering supplies materials and after sales services through lots of foreign manufacturers and suppliers for energy sector to several Turkish companies operating in this sector. Materials can be provided from different countries around the world as new production or from stock according to customer's demand.

Summary list of materials we provide is like below:

- Varel PDC & Roller Cone Bits
- OCTG (Casing) & Tubing
- Wellhead & Christmas Tree
- Geothermal Expanding Master Valves and Line Valves
- Cementing Equipment (Float Shoe, Float Collar, Centralizers, Liner Hanger, etc.)
- Drilling Rig (Mobile & Skid Mounted)
- Drilling Rig Handling Tools
- Drill String (Drill pipe, HWDP & Drill Collar, Stabilizer & Reamers)
- X-Over, Float and Lifting Subs
- Kelly, Swivel & Rotary Hose
- Mud Pump, Fluid End Parts & Pump Discharge Hose
- Fishing Tools
- Drilling Instruments & Recorders
- Power Tong
- High Pressure Fittings & Valves
- Production Chemicals

Our Products:

- Mud Pump Manifold
- Choke Manifold
- Poor Boy Degasser

ENGINEERING & CONSULTANCY

1. UNDERGROUND NATURAL GAS STORAGE

UNDERGROUND GAS STORAGE PROJECT CONSULTANCY, TURKEY

Company : BOTAS
Date of Completion : Ongoing since 2006
Scope of Project : Basic Engineering, preparation of administrative and technical tender documents based on World Bank norms, project management, drilling, scada, construction and administrative control during the construction phase for underground gas storage project in Tuz Golu region.

2. DRILLING AND WELL COMPLETION SERVICES

CONSULTANCY AND FIELD OPERATION SERVICE, HATAY-SANLIURFA/ TURKEY

Company : ARAR PETROL
Date of Completion : Ongoing since 2022
Scope of Project : Supervision and consulting for preparation of drilling/completion program, engineering and consulting for casing design, drilling fluid program cementing design/operation, perforation program and well tests.

CONSULTANCY AND FIELD OPERATION SERVICE, BATMAN/ TURKEY

Company : IPEK ENERJI A.S.
Date of Completion : 01.2014
Scope of Project : Preparing well completion program and operation services for 2 wells in Kozluk/BATMAN field.

DRILLING CONSULTANCY SERVICE, TURKEY

Company : MERVE JEOTERMAL
Date of Completion : 12.2012
Scope of Project : Supervision and consulting for preparation of well program, engineering, and consulting for casing design, drilling fluid program and cementing design/operation.

RADIAL DRILLING SERVICE, ADANA/TURKEY

Company : GUNAY YILDIZI A.S.
Date of Completion : 11.2012
Scope of Project : Supplying radial drilling service to Gunay Yildizi for their oil well in ADANA together with Radial Drilling Services Inc. Texas/USA.

RADIAL DRILLING SERVICE, KONYA/TURKEY

Company : ARAR PETROL A.S.
Date of Completion : 10.2012
Scope of Project : Supplying radial drilling service to Arar Petrol for their 2 ea gas wells in KONYA together with Radial Drilling Services Inc. Texas/USA.

DRILLING SERVICE, MANISA-CANAKKALE/TURKEY

Company : SONSUZLUK LTD. STI.
Date of Completion : 08.2011
Scope of Project : Supplying drilling service for 8 ea geothermal gradient test wells located in Manisa, Kula and Canakkale.

DRILLING CONSULTANCY SERVICE, IRAQ

Company : PETOIL A.S.
Date of Completion : 05.2011
Scope of Project : Supplying consultancy service for drilling activities in Iraq.

DRILLING CONSULTANCY SERVICE, AEGEAN REGION/TURKEY

Company : ERNA ENERJİ İŞLETMELERİ A.S.
Date of Completion : 12.2010
Scope of Project : Preparing drilling program and supplying consultancy service for geothermal activities in Aegean Region.

WORKOVER & FLOW TEST CONSULTANCY SERVICES, MARDIN/TURKEY

Company : TIWAY TURKEY LTD.
Date of Completion : 12.2010
Scope of Project : Preparing workover program for Bakuk-2 well, consultancy services during workover and flow test operations.

OIL WELL DRILLING PROJECT CONSULTANCY, TURKMENISTAN

Company : MIDLAND OIL & GAS COMPANY
Date of Completion : 12.2009
Scope of Project : Consultancy services for the oil drilling project in Turkmenistan, preparation of drilling programs for deep and high pressure 10 wells, cost analyzes and preparation of technical/financial proposals.

DRILLING SUPERVISION SERVICE, DUZCE/TURKEY

Company : ZETA PETROLEUM, LONDON/UK
Date of Completion : 12.2008
Scope of Project : Drilling supervision of the exploration well in DUZCE.

DRILLING SUPERVISION SERVICE, AYDIN/TURKEY

Company : BM İNŞAAT
Date of Completion : 06.2008
Scope of Project : Drilling supervision of the geothermal wells in Soke/AYDIN.

DRILLING MANAGEMENT SERVICE, AZERBAIJAN

Company : BINAGADI OIL COMPANY
Date of Completion : 06.2008
Scope of Project : Management of drilling operations, preparation of drilling programs, determinations of drilling related equipment, personnel training and management.

DRILLING PROJECT CONSULTANCY, IRAQ

Company : PETPRIME-ABD
Date of Completion : 02.2007
Scope of Project : Consultancy of drilling operation, engineering, and procurement support.

WELL COMPLETION SERVICE, TURKEY

Company : MADISON OIL TURKEY Inc.
Date of Completion : 08.2003
Scope of Project : Design and detailed engineering of well completion and test services of the natural gas well (Barboros-1).

DRILLING SUPERVISION SERVICE, THRACE/TURKEY

Company : MADISON OIL TURKEY Inc.
Date of Completion : 07.2002
Scope of Project : Supervision for drilling of two gas wells (Karakopek, Barboros) in Thrace Basin.

MANPOWER SUPPLY, BLACKSEA/TURKEY

Company : SEDCO-FOREX SCHLUMBERGER INT. OVERSEAS
Date of Completion : 10.1999
Scope of Project : Manpower supply to Black Sea Project of TPAO-ARCO Consortium.

RE-ENTRY DRILLING OPERATIONS, ADIYAMAN/TURKEY

Company : TPIC
Date of Completion : 10.1998
Scope of Project : Re-entry of 4 existing oil wells in Adiyaman oil field and implementation of all related operations.

DRILLING MANAGEMENT SERVICE, THRACE/TURKEY

Company : THRACE BASIN NATURAL GAS COMPANY
Date of Completion : 07.1998
Scope of Project : Drilling of a natural gas exploration well Avluobası.

3. PRODUCTION AND RESERVOIR SERVICES

PRODUCTION CONSULTANCY, HATAY-SANLIURFA/TURKEY

Company : ARAR PETROL
Date of Completion : Ongoing since 2022
Scope of Project : Design and detailed engineering for surface facility (separators, heater treaters, heat exchangers, hot oil generators, storage tanks, pipelines)

WATER STORAGE TANK WITH A CAPACITY OF 2000 BBL DESIGN AND ENGINEERING, SANLIURFA/TURKEY

Company : ARAR PETROL
Date of Completion : 04.2023
Scope of Project : Design and detailed engineering of Water Storage Tank with a Capacity Of 2000 BBL.

ENCLOSED GROUND FLARE DESIGN AND ENGINEERING, TURKEY

Company : TUBITAK-TEYDEB Support Program
Date of Completion : 02.2023
Scope of Project : Design and detailed engineering of Enclosed Smokeless Ground Flare.

600 BBL MOBILE OIL STORAGE TANK DESIGN AND ENGINEERING, SANLIURFA/TURKEY

Company : ARAR PETROL
Date of Completion : 01.2023
Scope of Project : Design and detailed engineering of Mobile Vertical Storage Tank.

OIL PRE-HEATER DESIGN AND ENGINEERING, SANLIURFA/TURKEY

Company : ARAR PETROL
Date of Completion : 11.2022
Scope of Project : Design and detailed engineering of Pre-Heater.

HORIZONTAL HEATER TREATER DESIGN AND ENGINEERING, SANLIURFA/TURKEY

Company : ARAR PETROL
Date of Completion : 11.2022
Scope of Project : Design and detailed engineering of III Phase Horizontal Heater Treater Separator.

OIL STORAGE TANK WITH A CAPACITY OF 5000 BBL DESIGN AND ENGINEERING, SANLIURFA/TURKEY

Company : PETOIL INC.
Date of Completion : 10.2022
Scope of Project : Design and detailed engineering of Oil Storage Tank with a Capacity Of 5000 BBL.

OIL STORAGE TANK WITH A CAPACITY OF 5000 BBL DESIGN AND ENGINEERING, SANLIURFA/TURKEY

Company : ARAR PETROL
Date of Completion : 07.2022
Scope of Project : Design and detailed engineering of Oil Storage Tank with a Capacity Of 5000 BBL.

OIL STORAGE TANK WITH A CAPACITY OF 3000 BBL DESIGN AND ENGINEERING, SANLIURFA/TURKEY

Company : ARAR PETROL
Date of Completion : 07.2022
Scope of Project : Design and detailed engineering of Oil Storage Tank with a Capacity Of 3000 BBL.

BEU TYPE HEAT EXCHANGER DESIGN AND ENGINEERING, SANLIURFA/TURKEY

Company : ARAR PETROL
Date of Completion : 05.2022
Scope of Project : Design and detailed engineering of BEU Type Heat Exchanger.

VERTICAL KNOCKOUT DRUM DESIGN AND ENGINEERING, SANLIURFA/TURKEY

Company : ARAR PETROL
Date of Completion : 04.2022
Scope of Project : Design and detailed engineering of Vertical Knock-Out Drum.

II PHASE VERTICAL SEPARATOR DESIGN AND ENGINEERING, SANLIURFA/TURKEY

Company : ARAR PETROL
Date of Completion : 03.2022
Scope of Project : Design and detailed engineering of II Phase Vertical Separator with Gas Flowmeter Leg.

VERTICAL HEATER TREATER DESIGN AND ENGINEERING, SANLIURFA/TURKEY

Company : ARAR PETROL
Date of Completion : 12.2020
Scope of Project : Design and detailed engineering of III Phase Vertical Heater Treater.

FLARE STACK DESIGN AND ENGINEERING, DIYARBAKIR/TURKEY

Company : OZCAN MUHENDISLIK
Date of Completion : 05.2020
Scope of Project : Design and detailed engineering of 33 ft Self Standing Flare Stack (Tip Dia.: 2 1/2") with automatic pilot ignition system.

COLD VENT STACK DESIGN AND ENGINEERING, TURKEY

Company : -
Date of Completion : 05.2020
Scope of Project : Design and detailed engineering of 82 ft (25 meter) Self Standing Cold Vent Stack.

SKIDDED NITROGEN GENERATION PACKAGE DESIGN AND ENGINEERING, ERBIL/NORTHERN IRAQ

Company : HUNT OIL MIDDLE EAST LIMITED
Date of Completion : 01.2020
Scope of Project : Design and detailed engineering of Nitrogen Generation Package which includes 3 ea Air Compressors, 3 ea Air Dryers, 9 ea Filters, 6 ea Nitrogen Generators, 6 ea N2 Buffer Vessels, 1 ea Air Receiver, 1 ea Nitrogen Receiver.

INSTRUMENT AIR VESSEL DESIGN AND ENGINEERING, ERBIL/NORTHERN IRAQ

Company : WELL TETRA
Date of Completion : 11.2019
Scope of Project : Design and detailed engineering of 1 ea class 150 (L: 5,200 mm S-S ID: 1,626 mm) Instrument Air Vessel.

NATURAL GAS DRYER DESIGN AND ENGINEERING, SILIVRI/TURKEY

Company : ATLI ENERJI
Date of Completion : 11.2019
Scope of Project : Design and detailed engineering of 1 ea Class 150 (L: 3,000 mm S-S ID: 950 mm) Vertical Desiccant Dryer.

II PHASE VERTICAL SEPARATOR DESIGN AND ENGINEERING, SILIVRI/TURKEY

Company : ATLI ENERJI
Date of Completion : 11.2019
Scope of Project : Design and detailed engineering of 1 ea II Phase Class 150 (L: 2,500 mm S-S ID: 1,000 mm) Vertical Separator.

FREE WATER KNOCK OUT DRUM DESIGN AND ENGINEERING, ERBIL/NORTHERN IRAQ

Company : PETOIL INC.
Date of Completion : 10.2019
Scope of Project : Design and detailed engineering of 1 ea class 300 (L: 10,000 mm S-S ID: 2,500 mm) FWKO separator.

P-TANK DESIGN AND ENGINEERING, DIYARBAKIR/TURKEY

Company : PRODUCTION SOLUTION
Date of Completion : 09.2019
Scope of Project : Design and detailed engineering of 1 ea class 150 (L: 10,000 mm S-S ID: 2,400 mm) P-Tank.

Pig Launcher SKID, PIG Receiver Skid AND TAKE-OFF SKIDS DESIGN AND ENGINEERING, TURKEY

Company : BOTAS
Date of Completion : 06.2019
Scope of Project : Design and detailed engineering of 1 ea 8" X 12" Pig Launcher Skid, 1 ea 8" x 12" Pig Receiver Skid, 2 ea 8" Take-Off Skids.

60' TRIPLE STACK MOBILE FLARE DESIGN AND ENGINEERING, DIYARBAKIR/TURKEY

Company : PRODUCTION SOLUTION
Date of Completion : 02.2019
Scope of Project : Design and detailed engineering of 3 stack (1 ea 6" High Pressure Gas Discharge Line, 1 ea 4" for PSV Gas Relief Line, 1 ea 4" for Low Pressure Discharge Line) (L 18.45 x W 12.55 x H 18.09 m) with an automatic pilot ignition system for Rental Purposes.

IV PHASE TEST SEPARATOR DESIGN AND ENGINEERING, TRAKYA/TURKEY

Company : PRODUCTION SOLUTION
Date of Completion : 06.2018
Scope of Project : Design and detailed engineering of 1 ea class 300 (L: 6000 mm S-S ID: 1500 mm) IV phase horizontal separator in offshore skid.

MOBILE FLARE STACK DESIGN AND ENGINEERING, TRAKYA/TURKEY

Company : PRODUCTION SOLUTION
Date of Completion : 06.2018
Scope of Project : Design and detailed engineering of 1 ea 60' mobile flare stack with automatic pilot ignition system.

III SEPARATOR DESIGN AND ENGINEERING, MARDIN/TURKEY

Company : ÇALIK ENERJİ
Date of Completion : 06.2017
Scope of Project : Design and detailed engineering of 1 ea class 150 (l: 5500 mm s-s od: 1500 mm) III phase horizontal separator skid.

Flare Knockout Drum DESIGN AND ENGINEERING, ÇANAKKALE/ TURKEY

Company : MARS TURKEY BV.
Date of Completion : 05.2017
Scope of Project : Design and detailed engineering of 1ea class 150, (l: 4575 mm s-s od: 1404 mm) flare knockout drum

III PHASE INLET SEPARATOR DESIGN AND ENGINEERING, ÇANAKKALE/ TURKEY

Company : MARSATURKEY BV.
Date of Completion : 05.2017
Scope of Project : Design and detailed engineering of 1ea class 300 (l: 4575 mm s-s od: 1756 mm) III phase horizontal separator skid.

INSTRUMENT AIR COMPRESSOR ve AIR STORAGE TANK DESIGN AND ENGINEERING, ÇANAKKALE/ TURKEY

Company : MARSATURKEY BV.
Date of Completion : 01.2017
Scope of Project : Design and detailed engineering of air compressor unit which, includes 2 ea redundant air compressor, 1 ea air drier and 1000 lt of air tank and 1 ea 4000 lt air tank.

PIG LAUNCHER & RECEIVER DESIGN AND ENGINEERING, TEKIRDAG/TURKEY

Company : VALEURA ENERGY INC.
Date of Completion : 01.2016
Scope of Project : Design and Detailed Engineering of 2 ea of Class 300 (L:10' D:30") II Phase Vertical Separators w/nozzles and connections.

STORAGE TANK DESIGN AND ENGINEERING, TEKIRDAG/TURKEY

Company : VALEURA ENERGY INC.
Date of Completion : 01.2016
Scope of Project : Design and Detailed Engineering of 2 ea of 200 bbl Horizontal Storage Tanks, 2 ea 50 bbl Vertical Condensate Tanks and 2 ea 50 bbl Water Tanks.

TEST SEPARATOR DESIGN AND ENGINEERING, BATMAN/TURKEY

Company : TRANSATLANTIC PETROLEUM LTD
Date of Completion : 10.2014
Scope of Project : Design and Detailed Engineering of 3 ea of 2000 bpd test separators with all connections.

FREE WATER KNOCK OUT DESIGN AND ENGINEERING, BATMAN/TURKEY

Company : TRANSATLANTIC PETROLEUM LTD
Date of Completion : 10.2014
Scope of Project : Design and Detailed Engineering of 2 ea (1 ea 20.000 bpd+1 ea 60.000 bpd) FWKOs with all connections.

HORIZONTAL STORAGE TANK DESIGN AND ENGINEERING, NORTHERN IRAQ

Company : OILSERV LTD.
Date of Completion : 09.2014
Scope of Project : Design and Detailed Engineering of 10 ea of 1,000 bbl horizontal storage tanks w/ nozzles and connections.

HORIZONTAL STORAGE TANK DESIGN AND ENGINEERING, NORTHERN IRAQ

Company : OILSERV LTD.
 Date of Completion : 06.2014
 Scope of Project : Design and Detailed Engineering of 4 ea of 1,000 bbl horizontal storage tanks w/ nozzles and connections

II PHASE SEPARATOR DESIGN AND ENGINEERING, BATMAN/TURKEY

Company : IPEK ENERJI A.S.
 Date of Completion : 04.2014
 Scope of Project : Design and Detailed Engineering of 1 ea Directly Heated III Phase Separator w/ nozzles and connections.

OIL STORAGE TANK DESIGN AND ENGINEERING, DOHUK/NORTHERN IRAQ

Company : OILSERV LTD.
 Date of Completion : 09.2012
 Scope of Project : Design and detailed engineering of 2 pcs. 5000 bbl oil storage tanks w/nozzle and connections.

TANK DESIGN AND ENGINEERING, BATMAN/TURKEY

Company : TRANSATLANTIC PETROLEUM LTD
 Date of Completion : 04.2012
 Scope of Project : Design and detailed engineering of 5 ea 500-3000 bbl capacity tanks for SELMO/BATMAN field.

MANIFOLD DESIGN AND ENGINEERING, BATMAN/TURKEY

Company : TRANSATLANTIC PETROLEUM LTD
 Date of Completion : 09.2011
 Scope of Project : Design and engineering of 5 ea manifolds for 30 wells at SELMO field.

NATURAL GAS PRODUCTION FACILITY DESIGN AND ENGINEERING, MARDIN/TURKEY

Company : TIWAY TURKEY LTD.
 Date of Completion : 06.2011
 Scope of Project : Design and detailed engineering of slug catcher, measuring skid, pig launcher & receiver, filter system for Bakuk natural gas production field.

III PHASE SEPARATOR DESIGN AND ENGINEERING, TURKEY

Company : ALAADDIN MIDDLE EAST
 Date of Completion : 08.2010
 Scope of Project : Design of 6000 bbl / day capacity Three Phase Separator for Bulgur Dagi / Adana field.

HEATER-TREATER DESIGN AND ENGINEERING, TURKEY

Company : MERTY ENERJI
 Date of Completion : 04.2010
 Scope of Project : Design and Manufacturing of 2.4 MMkcal/h capacity Heater Treater for Sarikiz/Manisa field.

PPD TREATMENT SERVICE, CHELEKEN/TURKMENISTAN

Company : DRAGON OIL
Date of Completion : 06.2009
Scope of Project : PPD Injection to downstream of separator for exporting Crude. Total treated amount is 2.4 MM bbl.

IODINE-BROMINE FIELD DEVELOPMENT PROJECT, TURKMENISTAN

Company : KINESIS ENERGY
Date of Completion : 10.2008
Scope of Project : Preliminary study of the water iodine & bromine field in Turkmenistan.

QUALITY CONTROL, LOADING & UNLOADING OF CRUDE OIL, IRAQ & TURKEY

Company : TPIC
Date of Completion : 12.2000
Scope of Project : Third party Quality Control check/Loading-Unloading and export documentations of companies' tanker truck crude oil transportation (10,000 ton/day) project in Iraq.

OPERATION OF GAS AND OIL FIELDS, THRACE/TURKEY

Company : TPAO
Date of Completion : 07.2000
Scope of Project : Following up the daily operations of 35 gas wells and 4 oil wells in Hamitabat Gas, Osmançık Oil Fields, operation of the surface equipment (heater separators, dehydrators, pipelines, stock tanks etc.), coordination with Industrial gas consumer plants and preparation oil for transportation.

4. PIPELINE**PIPELINE CONSULTANCY SERVICE, ÇANAKKALE/TÜRKİYE**

Company : MARSATURKEY BV.
Date of Completion : 12.2017
Scope of Project : Engineering and design of 6", 16 km pipeline, pig launcher and pig receiver stations.

ALIAGA BASIN N2 & O2 PIPELINE PROJECT PHASE I STUDIES

Company : AIR LIQUIDE GAZ A.S.
Date of Completion : 03.2013
Scope of Project : Performing general pipeline route and related drawings (maps and profiles) with 3 different alternatives, defining land types and special crossings on the routes, optimization of the routes by considering both technical and financial aspects, performing basic P&ID's and generating a budgetary cost estimation for all route alternatives.

PIPELINE CONSULTANCY SERVICE, MARDIN/TURKEY

Company : TIWAY TURKEY LTD.
Date of Completion : 06.2011
Scope of Project : Consultancy service for construction of Bakuk-2 natural gas pipeline.

ADATEPE-CERKEZKOY NATURAL GAS TRANSMISSION LINE DESIGN AND ENGINEERING, TEKIRDAG/TURKEY

Company : AMITY OIL INT. PTY. LTD., AUSTRALIA
Date of Completion : 10.2003
Scope of Project : Design and engineering of 13,000 m. 8" high pressure natural gas pipeline.

VELIMESE NE NATURAL GAS DISTRIBUTION AND PIPELINE DESIGN AND ENGINEERING, CORLU-TEKIRDAG/TURKEY

Company : AMITY OIL INT. PTY. LTD., AUSTRALIA
Date of Completion : 02.2003
Scope of Project : Engineering and design studies for 4,800, 6" high pressure natural gas pipeline connected to TPAO 8" pipeline by hot-tap operation, RMS assembly, detailed route study, design of pipeline and five valve rooms.

GOCERLER-MISINLI NATURAL GAS PIPELINE DESIGN AND ENGINEERING, CORLU-TEKIRDAG/TURKEY

Company : AMITY OIL INT. PTY. LTD., AUSTRALIA
Date of Completion : 12.2001
Scope of Project : Detailed route study, design, and engineering of 8" 18,465 m pipeline project.

OIL / NATURAL GAS PRODUCTION FACILITIES

1. PRODUCTION AND CONSTRUCTION FOR PETROLEUM AND NATURAL GAS FIELDS

WATER STORAGE TANK WITH A CAPACITY OF 2000 BBL MANUFACTURING, SANLIURFA/TURKEY

Company : ARAR PETROL
 Date of Completion : 04.2023
 Scope of Project : Material Supply and Construction of Water Storage Tank with a Capacity Of 2000 BBL.

ENCLOSED GROUND FLARE MANUFACTURING, TURKEY

Company : TUBITAK-TEYDEB Support Program
 Date of Completion : 02.2023
 Scope of Project : Material Supply and Manufacturing of Enclosed Smokeless Ground Flare.

600 BBL MOBILE OIL STORAGE TANKS MANUFACTURING, SANLIURFA/TURKEY

Company : ARAR PETROL
 Date of Completion : 01.2023
 Scope of Project : Material Supply and Construction of 10 ea Mobile Vertical Storage Tanks.

OIL PRE-HEATER MANUFACTURING, SANLIURFA/TURKEY

Company : ARAR PETROL
 Date of Completion : 11.2022
 Scope of Project : Material Supply, Manufacturing, Installation and Commissioning of Pre-Heater.

HORIZONTAL HEATER TREATER MANUFACTURING, SANLIURFA/TURKEY

Company : ARAR PETROL
 Date of Completion : 11.2022
 Scope of Project : Material Supply, Manufacturing, Installation and Commissioning of III Phase Horizontal Heater Treater Separator.

OIL STORAGE TANK WITH A CAPACITY OF 5000 BBL MANUFACTURING, ERBIL/ NORTHERN IRAQ

Company : PETOIL INC.
 Date of Completion : 10.2022
 Scope of Project : Material Supply and Shop-Fabrication of 2 ea Oil Storage Tanks and Connection Piping.

OIL STORAGE TANK WITH A CAPACITY OF 5000 BBL MANUFACTURING, SANLIURFA/TURKEY

Company : ARAR PETROL
 Date of Completion : 08.2022
 Scope of Project : Material Supply and Construction of 2 ea Oil Storage Tanks with a Capacity Of 5000 BBL.

OIL STORAGE TANK WITH A CAPACITY OF 3000 BBL MANUFACTURING, SANLIURFA/TURKEY

Company : ARAR PETROL
 Date of Completion : 07.2022
 Scope of Project : Material Supply and Construction of Oil Storage Tank with a Capacity Of 3000 BBL.

FIELD MANIFOLD MANUFACTURING, SANLIURFA/TURKEY

Company : ARAR PETROL
 Date of Completion : 07.2022
 Scope of Project : Material Supply, Manufacturing and Installation of 8”&4” Field Manifold.

BEU TYPE HEAT EXCHANGER MANUFACTURING, SANLIURFA/TURKEY

Company : ARAR PETROL
 Date of Completion : 05.2022
 Scope of Project : Material Supply, Manufacturing, Installation and Commissioning of BEU Type Heat Exchanger.

VERTICAL KNOCKOUT DRUM MANUFACTURING, SANLIURFA/TURKEY

Company : ARAR PETROL
 Date of Completion : 04.2022
 Scope of Project : Material Supply, Manufacturing, Installation and Commissioning of Vertical Knock-Out Drum.

II PHASE VERTICAL SEPARATOR MANUFACTURING, SANLIURFA/TURKEY

Company : ARAR PETROL
 Date of Completion : 03.2022
 Scope of Project : Material Supply, Manufacturing, Installation and Commissioning of II Phase Vertical Separator with Gas Flowmeter Leg.

VERTICAL HEATER TREATER MANUFACTURING, SANLIURFA/TURKEY

Company : ARAR PETROL
 Date of Completion : 12.2020
 Scope of Project : Material Supply, Manufacturing, Installation and Commissioning of III Phase Vertical Heater Treater.

FLARE TIP MANUFACTURING, IRAQ /TURKEY

Company : PETOIL
 Date of Completion : 10.2020
 Scope of Project : Material Supply, Manufacturing and Installation of Stainless Steel (AISI 316L) 6” x 3-line Flare Tip.

FLARE STACK MANUFACTURING, DIYARBAKIR/TURKEY

Company : OZCAN MUHENDISLIK
 Date of Completion : 05.2020
 Scope of Project : Material Supply, Manufacturing and Construction of 33 ft. Self-Standing Flare Stack (Tip Dia.: 2 1/2”) with automatic pilot ignition system.

COLD VENT STACK MANUFACTURING, TURKEY

Company : -
 Date of Completion : 05.2020
 Scope of Project : Material Supply, Manufacturing and Construction of 82 ft (25 meter) Self Standing Cold Vent Stack.

SKIDDED NITROGEN GENERATION PACKAGE MANUFACTURING, ERBIL/ NORTHERN IRAQ

Company : HUNT OIL MIDDLE EAST LIMITED
 Date of Completion : 01.2020
 Scope of Project : Material Supply, Manufacturing and Construction of Nitrogen Generation Package which includes; 3 ea Air Compressors, 3 ea Air Dryers, 9 ea Filters, 6 ea Nitrogen Generators, 6 ea N2 Buffer Vessels, 1 ea Air Receiver, 1 ea Nitrogen Receiver.

INSTRUMENT AIR VESSEL MANUFACTURING, ERBIL/ NORTHERN IRAQ

Company : WELL TETRA
 Date of Completion : 11.2019
 Scope of Project : Material Supply, Manufacturing and Construction of 1 ea class 150 (L: 5,200 mm S-S ID: 1,626 mm) Instrument Air Vessel.

DESICCANT DRYER MANUFACTURING, SILIVRI/TURKEY

Company : ATLI ENERJI
 Date of Completion : 11.2019
 Scope of Project : Material Supply, Manufacturing and Construction of 1 ea Class 150 (L: 3,000 mm S-S ID: 950 mm) Vertical Desiccant Dryer.

II PHASE VERTICAL SEPARATOR MANUFACTURING, SILIVRI/TURKEY

Company : ATLI ENERJI
 Date of Completion : 11.2019
 Scope of Project : Material Supply, Manufacturing and Construction of 1 ea II Phase Class 150 (L: 2,500 mm S-S ID: 1,000 mm) Vertical Separator.

FREE WATER KNOCK OUT DRUM MANUFACTURING, ERBIL/ NORTHERN IRAQ

Company : PETOIL INC.
 Date of Completion : 10.2019
 Scope of Project : Material Supply, Manufacturing and Construction of 1 ea class 300 (L: 10,000 mm S-S ID: 2,500 mm) FWKO separator.

P-TANK MANUFACTURING, DIYARBAKIR/TURKEY

Company : PRODUCTION SOLUTION
 Date of Completion : 09.2019
 Scope of Project : Material Supply, Manufacturing and Construction of 1 ea class 150 (L: 10,000 mm S-S ID: 2,400 mm) P-Tank.

Pig Launcher SKID, PIG Receiver Skid AND TAKE-OFF SKIDS MANUFACTURING, TURKEY

Company : BOTAS
 Date of Completion : 06.2019
 Scope of Project : Material Supply, Manufacturing and Construction of 1 ea 8" x 12" Pig Launcher Skid, 1 ea 8" x 12" Pig Receiver Skid, 2 ea 8" Take-Off Skids.

REFURBISHMENT OF II PHASE VERTICAL HT SEPARATOR, DIYARBAKIR/TURKEY

Company : TRANSATLANTIC PETROLEUM LTD
Date of Completion : 02.2019
Scope of Project : Refurbishment of 1 ea of Class 150 II Phase vertical heater treater separator.

60' TRIPLE STACK MOBILE FLARE MANUFACTURING, DIYARBAKIR/TURKEY

Company : PRODUCTION SOLUTION
Date of Completion : 02.2019
Scope of Project : Material Supply, Manufacturing and Construction of 3 stack (1 ea 6" High Pressure Gas Discharge Line, 1 ea 4" for PSV Gas Relief Line, 1 ea 4" for Low Pressure Discharge Line) (L 18.45 x W 12.55 x H 18.09 m) with an automatic pilot ignition system.

IV PHASE TEST SEPARATOR MANUFACTURING, TRAKYA/TURKEY

Company : PRODUCTION SOLUTION
Date of Completion : 06.2018
Scope of Project : Material Supply, Manufacturing and Construction of 1 ea class 300 (L: 6000 mm S-S ID: 1500 mm) IV phase horizontal separator in offshore skid.

MOBILE FLARE STACK MANUFACTURING, TRAKYA/TURKEY

Company : PRODUCTION SOLUTION
Date of Completion : 06.2018
Scope of Project : Material Supply, Manufacturing and Construction of 1 ea 60' mobile flare stack with automatic pilot ignition system.

INLET MANIFOLD AND CPF CONSTACTION, ÇANAKKALE/TÜRKİYE

Company : MARSA TURKEY BV.
Date of Completion : 08.2017
Scope of Project : Material Supply, Manufacturing and Construction of 8" piggable manifold and all pipelines on the surface facility.

MANIFOLD MANUFACTURING, ÇANAKKALE/TÜRKİYE

Company : MARSA TURKEY BV.
Date of Completion : 07.2017
Scope of Project : Material Supply, Manufacturing and Construction of 2 ea 8" pig launchable manifold and 1 ea 4" manifold.

III PHASE SEPARATOR MANUFACTURING, MARDİN/TÜRKİYE

Company : ÇALIK ENERJİ
Date of Completion : 06.2017
Scope of Project : Engineering and design of 1 ea Class 150 (L: 5500 mm S-S OD: 1500 mm) III Phase horizontal separator skid.

FLARE KNOCKOUT MANUFACTURING, ÇANAKKALE/TÜRKİYE

Company : MARSA TURKEY BV.
Date of Completion : 05.2017
Scope of Project : Material Supply and Construction of 1 ea subsurface, Class 150, (L: 4575 mm S-S OD: 1404 mm) flare knockout drum.

III PHASE INLET SEPARATOR MANUFACTURING, ÇANAKKALE/TÜRKİYE

Company : MARSATURKEY BV.
Date of Completion : 05.2017
Scope of Project : Material Supply and Construction of 1 ea Class 300 (L: 4575 mm S-S OD: 1756 mm) III phase horizontal separator skid.

INSTRUMENT AIR COMPRESSOR VE AIR STORAGE TANK DESIGN AND ENGINEERING, ÇANAKKALE/TÜRKİYE

Company : MARSATURKEY BV.
Date of Completion : 01.2017
Scope of Project : Design and detailed engineering of air compressor unit which, includes 2 ea redundant air compressor, 1 ea air drier and 1000 lt of air tank and 1 ea 4000 lt air tank.

PIG LAUNCHER & RECEIVER MANUFACTURING, TEKIRDAG/TURKEY

Company : VALEURA ENERGY INC.
Date of Completion : 02.2016
Scope of Project : Material Supply and Construction of 1 ea 8" and 1 ea 6" Pig Launcher and Receiver.

TEST SEPARATOR MANUFACTURING, TEKIRDAG/TURKEY

Company : VALEURA ENERGY INC.
Date of Completion : 01.2016
Scope of Project : Material Supply and Construction of 2 ea of Class 300 (L:10' D:30") II Phase Vertical Separators w/ nozzles and connections.

STORAGE TANK MANUFACTURING, TEKIRDAG/TURKEY

Company : VALEURA ENERGY INC.
Date of Completion : 01.2016
Scope of Project : Material Supply and Construction of 2 ea of 200 bbl Horizontal Storage Tanks, 2 ea 50 bbl Vertical Condensate Tanks and 2 ea 50 bbl Water Tanks.

TEST SEPARATOR MANUFACTURING, BATMAN/TURKEY

Company : TRANSATLANTIC PETROLEUM LTD
Date of Completion : 10.2014
Scope of Project : Material Supply and Construction of 3 ea of Class 300 2000 bpd test separators with all connections.

FREE WATER KNOCK OUT MANUFACTURING, BATMAN/TURKEY

Company : TRANSATLANTIC PETROLEUM LTD
Date of Completion : 10.2014
Scope of Project : Material Supply and Construction of 2 ea (1 ea 20.000 bpd+1 ea 60.000 bpd) FWKOs with all connections.

HORIZONTAL STORAGE TANK MANUFACTURING, NORTHERN IRAQ

Company : OILSERV LTD.
Date of Completion : 09.2014
Scope of Project : Material Supply and Construction of 10 ea of 1,000 bbl horizontal storage tanks w/ nozzles and connections.

HORIZONTAL STORAGE TANK MANUFACTURING, NORTHERN IRAQ

Company : OILSERV LTD.
 Date of Completion : 06.2014
 Scope of Project : Material Supply and Construction of 4 ea of 1,000 bbl horizontal storage tanks w/ nozzles and connections.

STAINLESS STEEL MANIFOLD MANUFACTURING, BATMAN/TURKEY

Company : TRANSATLANTIC PETROLEUM LTD
 Date of Completion : 06.2014
 Scope of Project : Stainless Steel Manifold Manufacturing and Installation for 70 wells at Transatlantic SELMO field.

FLARE STACK MANUFACTURING, BATMAN/TURKEY

Company : TRANSATLANTIC PETROLEUM LTD
 Date of Completion : 04.2014
 Scope of Project : 4 ea. 33 ft mobile flare stack manufacturing.

III PHASE SEPARATOR MANUFACTURING, BATMAN/TURKEY

Company : IPEK ENERJI A.S.
 Date of Completion : 04.2014
 Scope of Project : Material Supply and Manufacturing of 1 ea Directly Heated III Phase Separator w/ nozzles and connections.

FLARE STACK MANUFACTURING, BATMAN/TURKEY

Company : IPEK ENERJI A.S.
 Date of Completion : 04.2014
 Scope of Project : 1 ea. 33 ft mobile flare stack manufacturing.

HEATER TREATER MANUFACTURING, BATMAN/TURKEY

Company : TRANSATLANTIC PETROLEUM LTD
 Date of Completion : 03.2014
 Scope of Project : Selmo HT Separator renewing.

EARLY PRODUCTION FACILITY CONSTRUCTION, BATMAN/ TURKEY

Company : IPEK ENERJI A.S.
 Date of Completion : 01.2014
 Scope of Project : Consultancy service for oilfield and field operation of Early Production Facility at Kozluk/BATMAN field.

OIL STORAGE TANK CONSTRUCTION, DOHUK/NORTHERN IRAQ

Company : OILSERV LTD.
 Date of Completion : 09.2012
 Scope of Project : Material Supply and Construction of 2 pcs. of 5,000 bbl oil storage tank w/ nozzles and connections.

PIG LAUNCHER & RECEIVER MANUFACTURING, KONYA/TURKEY

Company : ARAR PETROL A.S.
 Date of Completion : 06.2012
 Scope of Project : Manufacturing of 2 ea 3" pig launcher & receiver.

TANK MANUFACTURING, BATMAN/TURKEY

Company : TRANSATLANTIC PETROLEUM LTD
 Date of Completion : 04.2012
 Scope of Project : Manufacturing of 5 ea 500-3000 bbl capacity tanks for SELMO/BATMAN field.

MANIFOLD MANUFACTURING, BATMAN/TURKEY

Company : TRANSATLANTIC PETROLEUM LTD
 Date of Completion : 09.2011
 Scope of Project : Manufacturing of 5 ea manifolds for 30 wells at SELMO/BATMAN field.

SURFACE FACILITY UPGRADING, BATMAN/TURKEY

Company : TRANSATLANTIC PETROLEUM LTD
 Date of Completion : 07.2011
 Scope of Project : Assembly of new Heater-Treater and surface facility upgrading at SELMO/Batman field.

FUEL SYSTEM UPGRADING, BATMAN/TURKEY

Company : TRANSATLANTIC PETROLEUM LTD
 Date of Completion : 06.2011
 Scope of Project : Upgrading of existing fuel system at SELMO/Batman field.

NATURAL GAS PRODUCTION FACILITY MANUFACTURING, MARDIN/TURKEY

Company : TIWAY TURKEY LTD.
 Date of Completion : 06.2011
 Scope of Project : Manufacturing and assembly of slug catcher, measuring skid, pig launcher & receiver, filter system for Bakuk natural gas production field.

III PHASE SEPARATOR MANUFACTURING, TURKEY

Company : ALAADDİN MIDDLE EAST
 Date of Completion : 08.2010
 Scope of Project : Manufacturing of 6000 bbl / day capacity Three Phase Separator for Bulgur Dagi / Adana field.

HEATER-TREATER MANUFACTURING, TURKEY

Company : MERTY ENERJİ
 Date of Completion : 04.2010
 Scope of Project : Manufacturing of 2.4 MMkcal/h capacity Heater Treater for Sarikiz/Manisa field.

SEPARATOR UPGRADING AND MANIFOLD & PIPELINE CONSTRUCTION, TURKEY

Company : PEMİ
 Date of Completion : 2008
 Scope of Project : Upgrading of 30,000 bbl/day three phase separator and construction of 20,000 m. well lines and 5 gathering manifolds with flow rate monitoring of 21 wells.

2. PIPELINES

6" CRUDE OIL FLOWLINE CONSTRUCTION, NORTHERN IRAQ

Company : PETOIL
 Date of Completion : 01.2019
 Scope of Project : Construction of 1.2 km 4", crude oil flowline from wellhead to CPF manifold.

PIPELINE CONSTRUCTION, ÇANAKKALE/TÜRKİYE

Company : MARSATURKEY BV.
 Date of Completion : 12.2017
 Scope of Project : Construction of 6", 16 km gas gathering pipelines and pig launcher&reciever stations.

8", 4", 2" GAS GATHERING PIPELINE CONSTRUCTION, ÇANAKKALE/TÜRKİYE

Company : MARSATURKEY BV.
 Date of Completion : 04.2017
 Scope of Project : Construction of 2.5 km 8", 500 meter 4" and 1 km 2" gas gathering pipeline.

3" FLOWLINES, ÇANAKKALE/ TURKEY

Company : MARSATURKEY BV.
 Date of Completion : 08.2017
 Scope of Project : 3" flowlines construction of 8 wells. The length is 1 km in total.

THERMOFLEX PIPELINE CONSTRUCTION, BATMAN/TURKEY

Company : TRANSATLANTIC PETROLEUM LTD
 Date of Completion : 04.2012
 Scope of Project : Construction of 23.500 m thermoflex pipeline at SELMO/Batman field.

NITROGEN PANEL REVISION, TURKEY

Company : BTC Co. Turkey
 Date of Completion : 04.2012
 Scope of Project : Replacing pressure switches with pressure transmitters and redirecting the PSV outlet piping at PT1-2-3-4 and IPT 1-2 stations.

SURGE VALVE MAINTENANCE SERVICE, TURKEY

Company : BAKU-TBILISI-CEYHAN CRUDE OIL PIPELINE (BTC)
 Date of Completion : Ongoing
 Scope of Project : Installation, maintenance and upgrading of M&J Surge Skids at Baku-Tbilisi-Ceyhan Crude Oil Line.

PIPELINE CONSTRUCTION, TURKEY

Company : TRANSATLANTIC PETROLEUM LTD
 Date of Completion : 07.2011
 Scope of Project : Construction of 3800 mt Fiberglas Pipeline at SELMO/Batman Field.

SURGE VALVE MAINTENANCE SERVICE, TURKEY

Company : PRODUCTION SERVICES NETWORK LTD.
 Date of Completion : 02.2011
 Scope of Project : Commissioning of M&J Surge Skids at Baku-Tbilisi-Ceyhan Crude Oil Pipeline.

ACTUATOR MAINTENANCE SERVICE, TURKEY

Company : BAKU-TBILISI-CEYHAN CRUDE OIL PIPELINE (BTC)
 Date of Completion : 2008
 Scope of Project : Control Box Revision, Function Test and Maintenance of 65 Electro-Hydraulic Actuators.

ACTUATOR INSTALLATION SERVICE, ISTANBUL/TURKEY

Company : IGDAS
 Date of Completion : 2008
 Scope of Project : Installation of 100 Electro-Hydraulic Actuators into existing valve rooms.

ADATEPE-CERKEZKOY NATURAL GAS TRANSMISSION LINE CONSTRUCTION, TEKIRDAG/TURKEY

Company : AMITY OIL INT. PTY. LTD., AUSTRALIA
 Date of Completion : 10.2003
 Scope of Project : 13,000 m. 8" high pressure natural gas pipeline, procurement materials, bending and welding of pipes, trench excavation, pipe lower in, back filling, river & road crossings, cathodic protection, hydrostatic testing and commissioning.

NATURAL GAS DISTRIBUTION PIPELINE CONSTRUCTION, USAK/TURKEY

Company : TEPE ALTYAPI A.S.
 Date of Completion : 02.2003
 Scope of Project : Construction of 22,000 m. 8" high pressure Natural gas pipeline, bending and welding of pipes, insulation of pipe joints, trench excavation, pipe lower in, back filling, river & road crossings, and topographic studies.

NATURAL GAS DISTRIBUTION PIPELINE CONSTRUCTION, KUTAHYA/TURKEY

Company : TEPE ALTYAPI A.S.
 Date of Completion : 02.2003
 Scope of Project : Construction of 19,500 m. 8", 6", 4" and 3" medium range pressure natural gas pipeline, bending and welding of pipes, insulation of pipe joints, digging trench, pipe lower in, back filling, river & road crossings, and topographic studies.

VELIMESE-NE NATURAL GAS DISTRIBUTION AND PIPELINE CONSTRUCTION, CORLU TEKIRDAG/TURKEY

Company : AMITY OIL INT. PTY. LTD., AUSTRALIA
 Date of Completion : 02.2003
 Scope of Project : 4,800, 6" high pressure natural gas pipeline connected to TPAO 8" pipeline by hot-tap operation, RMS assembly, detailed route study, procurement of PE coated pipes, valves and fittings, construction for pipeline and five valve chambers, commissioning after cathodic protection and hydrostatic test.

PIPELINE CONSTRUCTION AT TEKIRDAG GAS FIELD, MURATLI-TEKIRDAG/TURKEY

Company : THRACE BASIN NATURAL GAS CO.
 Date of Completion : 05.2000
 Scope of Project : 24,300 meters 6" Pipeline construction, testing and commissioning between Muratli and Tekirdag gas field.

MATERIAL SUPPLY**OILFIELD EQUIPMENT SUPPLY, TURKEY**

Company : TURKIYE PETROLLERI ANONIM ORTAKLIĞI (TPAO)
Scope of Project : PDC & RC Bit supply for Drilling Services

OILFIELD EQUIPMENT SUPPLY, TURKEY

Company : Turkish Petroleum International Company (TPIC)
Scope of Project : Stabilizer and Closing Unit w/Spares supply for Drilling Services

OILFIELD EQUIPMENT SUPPLY, TURKEY

Company : SCHLUMBERGER RUSSIA
Scope of Project : Packers & Bridge Plugs, Circulating Subs & Waterbushings and X-over supply for Drilling Services

EQUIPMENT SUPPLY FOR GEOTHERMAL DRILLING, TURKEY

Company : MAREN ELEKTRİK ÜRETİM A.S.
Scope of Project : Bit Supply for Geothermal Drilling

EQUIPMENT SUPPLY FOR GEOTHERMAL DRILLING, TURKEY

Company : VIKING SERVICES
Scope of Project : Bit Supply for Geothermal Drilling

EQUIPMENT SUPPLY FOR GAS DRILLING, TURKEY

Company : VALEURA ENERGY
Scope of Project : PDC and RC Bits Supply for Gas Drilling

EQUIPMENT SUPPLY FOR GAS DRILLING, TURKEY

Company : SOCAR AQS
Scope of Project : PDC and RC Bits Supply for Gas Drilling

EQUIPMENT SUPPLY FOR GAS DRILLING, TURKEY

Company : ICTAS INSAAT
Scope of Project : Casing Accessories Supply for Gas Drilling

EQUIPMENT SUPPLY FOR GEOTHERMAL DRILLING, TURKEY

Company : CELIKLER HOLDING
Scope of Project : Casing and BOP Packing & Repair Kit Supply for Geothermal Drilling

EQUIPMENT SUPPLY FOR GEOTHERMAL DRILLING, TURKEY

Company : MADEN TETKİK VE ARAMA, MTA
Scope of Project : PDC Bits Supply for Geothermal Drilling

EQUIPMENT SUPPLY FOR GEOTHERMAL DRILLING, TURKEY

Company : GREENECO ENERJİ ÜRETİM A.S.
Scope of Project : Casing Accessories and PDC Bits Supply for Geothermal Drilling

EQUIPMENT SUPPLY FOR GEOTHERMAL DRILLING, TURKEY

Company : MASPO ENERJI A. S
Scope of Project : Casing, Casing Accessories and Drill Bits Supply for Geothermal Drilling

OILFIELD EQUIPMENT SUPPLY, TURKEY

Company : ALAADDIN MIDDLE EAST
Scope of Project : Casing, Tubing, PDC and RC Bits Drilling Equipment supply for Drilling Services

OILFIELD EQUIPMENT SUPPLY, TURKEY

Company : CALIK ENERJI A.S.
Scope of Project : Casing, Tubing, PDC and RC Bits and Wellhead Equipment supply for Drilling Services

EQUIPMENT SUPPLY FOR GEOTHERMAL DRILLING, TURKEY

Company : ZORLU ENERJI A.S.
Scope of Project : Casing, Casing Accessories, Wellhead Equipment and PDC & Rock Bits Supply for Geothermal Drilling

EQUIPMENT SUPPLY FOR GEOTHERMAL DRILLING, TURKEY

Company : YERKA ELEKTRIK URETIM A.S.
Scope of Project : Casing Supply for Geothermal Drilling

EQUIPMENT SUPPLY FOR GEOTHERMAL DRILLING, TURKEY

Company : SIS ENERJI URETIM A.S.
Scope of Project : 11 ea 17 1/2" Rock Bits Supply for Geothermal Drilling

EQUIPMENT SUPPLY FOR GEOTHERMAL DRILLING, TURKEY

Company : ARAR PETROL
Scope of Project : Three 12 1/4" and 8 1/2" Drill Bit Supply for Geothermal Drilling

EQUIPMENT SUPPLY FOR GEOTHERMAL DRILLING, TURKEY

Company : OCEANMEC ENERGY
Scope of Project : Wellhead Equipment and Rock Bits Supply for Geothermal Drilling.

EQUIPMENT SUPPLY FOR GEOTHERMAL DRILLING, TURKEY

Company : SINOPEC TURKEY LTD. STI.
Scope of Project : Casing, Wellhead Equipment, Floating Equipment and PDC & RC Bit supply for Geothermal Drilling.

EQUIPMENT SUPPLY FOR GEOTHERMAL DRILLING, TURKEY

Company : KARADENIZ HOLDING
Scope of Project : Supply of PDC Bits and Rock Bits for Geothermal Drilling.

EQUIPMENT SUPPLY FOR GEOTHERMAL DRILLING, TURKEY

Company : YDA ERDIL ENERJI URETIM SAN. ve TIC. A.S.
Scope of Project : 16 ea Rock Bits in Various Sizes supply for Geothermal Drilling.

EQUIPMENT SUPPLY FOR GEOTHERMAL DRILLING, TURKEY

Company : GEOEN D.O.O.
Scope of Project : 1 ea 8 ½” Rock Bit and 1 ea 5 7/8” PDC Bit supply for Geothermal Drilling.

EQUIPMENT SUPPLY FOR GEOTHERMAL DRILLING, TURKEY

Company : TURKERLER JEOTERMAL ENERJİ ARAMA ve ÜRETİM A.S
Scope of Project : Casing and PDC & RC Bit supply for Geothermal Drilling

EQUIPMENT SUPPLY FOR GEOTHERMAL DRILLING, TURKEY

Company : GURSUM ENERJİ A.S.
Scope of Project : Casing, Wellhead Equipment and Floating Equipment supply for Geothermal Drilling

EQUIPMENT SUPPLY FOR GEOTHERMAL DRILLING, TURKEY

Company : ATLI İNŞAAT A.S.
Scope of Project : Supply of Drift Indicator and Rotary Torque for Geothermal Drilling

OILFIELD EQUIPMENT SUPPLY, TURKEY

Company : GÜNEY YILDIZI A.S.
Scope of Project : Tubing, Wellhead Equipment, Floating Equipment, Decanting Centrifuge and other related equipment Supply for Drilling Services

SOLID CONTROL EQUIPMENTS SUPPLY, TURKEY

Company : PETROTEK A.S.
Scope of Project : Desander, Desilter, Centrifugal Pump and Mixing Hopper Supply

OILFIELD EQUIPMENT SUPPLY, TURKEY

Company : BULUTLAR SONDAJ LTD. STİ.
Scope of Project : Handling Tools, Solid Control Equipment, Drilling Instruments, Mud Test Equipment and other related equipment Supply

EQUIPMENT SUPPLY FOR GEOTHERMAL DRILLING, TURKEY

Company : GÜL SONDAJ LTD. STİ.
Scope of Project : BOP, Closing Unit, Cementing Equipment, Wellhead Equipment, Safety Valves, Cup Type Testers and other related equipment Supply

TUBING SUPPLY, TURKEY

Company : SDS ENERJİ A.S.
Scope of Project : Tubing supply for Geothermal Drilling

DRILLING EQUIPMENT SUPPLY, TURKEY

Company : BM HOLDİNG/GUMUSKOY JEOTERMAL ENERJİ A.S.
Scope of Project : Drill Pipe & Accessories, Fishing Tools, Handling Tools, Stabilizers, Drilling Instruments, Power Unit and other related equipment Supply

OILFIELD EQUIPMENT SUPPLY, TURKEY

Company : KOZA İPEK A.S.
Scope of Project : Casing, Wellhead Equipment, Casing Accessories, Stabilizer, Centralizer and other related equipment supply.

FIBERGLASS LINE PIPE & TUBING SUPPLY, TURKEY

Company : TPAO

Scope of Project : Supply of 4"-6"-8" Fiberglass Line Pipes and 2 7/8" – 3 1/2" Tubing

SURGE VALVE SUPPLY AND MAINTENANCE SERVICE, TURKEY

Company : BAKU-TBILISI-CEYHAN CRUDE OIL PIPELINE (BTC)

Scope of Project : Spare part of M&J Surge Skids at Baku-Tbilisi-Ceyhan Crude Oil Pipeline

ACTUATOR SUPPLY, TURKEY

Company : BAKU-TBILISI-CEYHAN CRUDE OIL PIPELINE (BTC) / IGDAS

Scope of Project : Supply of 65 / 100 ea Electro-Hydraulic Actuators with Control Units

ACTUATOR SUPPLY, TURKEY

Company : AKFEL / VASTAS / KALE KALIP A.S.

Scope of Project : 27 / 14 / 46 ea Gas Over Oil Gas-Hydraulic-Actuators with Control Units

OTHER REFERENCES

RMS-A CONSTRUCTION, IZMIR/TURKEY

Company : TURKERLER INSAAT
 Date of Completion : 02.2012
 Scope of Project : Design of Izmir Esbas OSB 40.000 m³/h RMS-A and inlet & outlet valve connections of AOSB 25.000 m³/h RMS-B.

TIRE 50,000 Nm³/h RMS A CONSTRUCTION, IZMIR/TURKEY

Company : IZMIRGAZ
 Date of Completion : 11.2007
 Scope of Project : Design and detailed engineering of 50,000 m³/h Capacity Pinlet 75 bar Poutlet 19 bar NG Reducing and Measuring Station with Pipeline Connections to Main Distribution System.

ALIAGA 20,000 Nm³/h RMS A CONSTRUCTION, IZMIR/TURKEY

Company : IZMIRGAZ
 Date of Completion : 02.2007
 Scope of Project : Design and detailed engineering of 20,000 m³/h Capacity Pinlet 75 bar Poutlet 19 bar NG Reducing and Measuring Station with Pipeline Connections to Main Distribution System.

NATURAL GAS DISTRIBUTION LINE CONSTRUCTION, ISTANBUL /TURKEY

Company : Istanbul Leather Industrial Estate Free Zone Area
 Date of Completion : 15.07.2006
 Scope of Project : Design of 800 m. 8"-6" high pressure steel pipeline, 2,850 m. 180-32 mm. medium pressure polyethylene pipeline, 2 RMS-B stations with 15,000 Nm³/h and 10,000 Nm³/h flow.

ATATURK OSB 25,000 NM³/H RMS-A, IZMIR/TURKEY

Company : IZMIRGAZ
 Date of Completion : 03.07.2006
 Scope of Project : Design and detailed engineering of 25,000 m³/h Capacity Pinlet 70 bar Poutlet 19 bar NG Reducing and Measuring Station with Pipeline Connections to Main Distribution System.

NATURAL GAS DISTRIBUTION LINE CONSTRUCTION GEBZE-KOCAELI/TURKEY

Company : Guzeller Industrial Estate Area
 Date of Completion : 19.01.2006
 Scope of Project : Design and detailed engineering of 900 m. 6"-4" high pressure steel pipeline, 4,700 m. 180-32 mm. medium pressure polyethylene pipeline.

TUZLA-TEPEOREN 45,000 Nm³/h RMS A, ISTANBUL/TURKEY

Company : IGDAS
 Date of Completion : 17.08.2005
 Scope of Project : Design and detailed engineering of 45,000 m³/h Capacity Pinlet 70 bar Poutlet 25 bar NG Reducing and Measuring Station with Pipeline Connections to Main Distribution System.

VELIMESE-NE NATURAL GAS STOPPLE OPERATION, CORLU-TEKIRDAG/TURKEY

Company : AMITY OIL INT. PTY. LTD., AUSTRALIA
Date of Completion : 15.08.2005
Scope of Project : Design and detailed engineering of Gas transmission to TPAO natural gas pipeline by stopple operation from Amity natural gas pipeline, 300 m, 4" and measuring station on pipeline.

NATURAL GAS DISTRIBUTION LINE CONSTRUCTION, ISTANBUL/TURKEY

Company : Istanbul Leather Industrial Estate Free Zone Area
Date of Completion : 08.07.2005
Scope of Project : Design and detailed engineering of 11,100 m. 2"-20" high pressure steel pipeline, 26,600 m. 180-32 mm. medium pressure polyethylene pipeline and 12 pieces RMS-B stations with 13,000 m³/h flows.

NATURAL GAS DISTRIBUTION LINE CONSTRUCTION, OSTIM-ANKARA/TURKEY

Company : Ankara OSTIM Industrial Estate Area
Date of Completion : 06.06.2005
Scope of Project : Design and detailed engineering of 1,300 m. high pressure steel pipeline and 50,000 m. 180-32 mm. medium pressure polyethylene pipeline, 2 RMS-B, 1 MS.

TUPRAS REFINERY NATURAL GAS TRANSMISSION LINE CONSTRUCTION, KIRIKKALE/TURKEY

Company : TUPRAS-KIRIKKALE Refinery
Date of Completion : 30.04.2005
Scope of Project : Design and detailed engineering of 2,500 m. 6"-8" high pressure steel pipeline and RS-B.

INDUSTRIAL ESTATE AREA NATURAL GAS DISTRIBUTION LINE CONSTRUCTION, KARAMAN/TURKEY

Company : Karaman Industrial Estate Area
Date of Completion : 10.09.2004
Scope of Project : Design and detailed engineering of 1,910 m. 12"-8"-6" high pressure steel pipeline, 1,410 m. 180-32 mm. medium pressure polyethylene pipeline and 2-piece RMS-B stations with 13,000 m³/h flow.

INDUSTRIAL NATURAL GAS / LNG CONVERSION

- ALL ALCI A.S. – ANKARA, BATMAN
- AYDIN KURUYEMIS SAN. VE TIC. LTD. STI - SAKARYA
- BAKIRLAR TEKSTIL SAN. VE TIC. A.S. – ADANA
- BARUT HOTELS - ANTALYA
- BASAS AMBALAJ A.S. - ISTANBUL
- BERDAN TEKSTIL SAN. VE TIC. A.S. – TARSUS/MERSIN
- BESLER GIDA KIMYA SAN. TIC. A.S. - ADANA
- BEYAZ KAGIT TEMIZLIK URUNLERI LTD. STI. – ADANA
- BISKOT BISKUVI SAN VE TIC. A.S. - KARAMAN
- BOSSAN HALI LTD. STI. - GAZIANTEP
- CEVAHIR DERI SAN. VE TIC. LTD. STI. -ISTANBUL
- CLUB BLUE DREAMS HOTELS – BODRUM, MUGLA
- CORINTHIA CLUB HOTEL - ANTALYA
- CROSS JEANSWEAR CO. CORLU - TEKIRDAG
- CINE AKMADEN MADENCILIK A.S - AYDIN
- DERIMSAN DERI SAN. VE TIC. STI. - ISTANBUL
- DURKAR HALI SAN. VE TIC. LTD. STI - GAZIANTEP
- ENTEKSER MUHENDISLIK SAN. VE TIC. LTD. STI. - KASTAMONU
- ETAP TARIM SAN. VE TIC. A.S. - MERSIN
- EVYAP SAN. VE TIC. A.S. - ISTANBUL
- GENSA ALUMINYUM LTD. STI. - KOCAELI
- GOZE TARIM A.S. - MERSIN
- HAMBOYA BOYACILIK SAN. VE TIC. A.S. - TEKIRDAG
- HEKTAS TARIM ILACLARI TIC. A.S. - KOCAELI
- HENKEL A.S. - ISTANBUL
- HES KIMYA A.S. - KAYSERI
- KAYALAR BAKIR ALASIMLARI SAN. VE TIC. A.S. – CORLU, TEKIRDAG
- KOPUZLAR DERI SAN. VE TIC. A.S. - ISTANBUL
- LAFARGE DALSAN A.S. - KOCAELI
- LETOONIA CLUB HOTELS – FETHIYE, MUGLA
- LUKS KADIFE SAN. VE TIC. A.S. - KAYSERI
- LYKIA LODGE HOTEL - NEVSEHIR
- MARTY MYRA HOTELS - ANTALYA
- MASS ARITMA SAN. VE TIC. A.S. - KOCAELI
- MENSA MENSUCAT A.S. - ADANA
- MERCEDES BENZ TURK A.S. - AKSARAY
- MERINOS HALI SAN. VE TIC. A.S. - GAZIANTEP
- NUH'UN ANKARA MAKARNASI A.S. - CANKIRI
- OGUN MAKARNA A.S. - GAZIANTEP
- OLTAN GIDA A.S. – TRABZON
- ONUR TAAHHUT VE TICARET LTD. STI. - KIRIKKALE
- ORTA ANADOLU TEKSTIL SAN. VE TIC. LTD. STI. - KAYSERI
- OTIUM ART HOTELS - ANTALYA
- OZBUCAK SAN. VE TIC. A.S. - ADANA
- OZGORKEY OTOMOTIV A.S. – ANTALYA
- OZMAYA SAN. A.S. - ADANA
- OZPOR A.S. - ANKARA

- PETLAS LASTIK SAN. TIC. A.S. - KIRSEHIR
- PURPLAST SAN. VE TIC. A.S. - KOCAELI
- RIXOS HOTELS - ANTALYA
- SARCHEM KIMYA SAN. VE TIC. A.S. - ISTANBUL
- SARUHAN KIMYA SAN. VE TIC. A.S. - TEKIRDAG
- SIRENE BELEK HOTEL - ANTALYA
- SURAL RESORT HOTEL - ANTALYA
- SURSAN SU URUNLERI SAN. VE TIC. A.S. - SAMSUN
- SA-RA GROUP A.S. - ADANA
- SIMSEK BISKUVI SAN. VE TIC. A.S. - KARAMAN
- SITEKS TEKSTIL SAN. VE TIC. A.S. - TEKIRDAG
- SOLEN CIKOLATA SAN. VE TIC. A.S. - GAZIANTEP
- TADER LEVHA SAN. VE TIC. A.S. - ISTANBUL
- TAT KIMYA SAN. VE TIC. A.S. - GAZIANTEP
- TAT NISASTA SAN. VE TIC. A.S. - ADANA
- TAT TEKSTIL SAN. VE TIC. A.S. - GAZIANTEP
- TEKNİK PROFİL A.S. - ISTANBUL
- TEMSA A.S. - ADANA
- TERMO ISI SAN. VE TIC. A.S. - ISTANBUL
- TEZKİM TARIMSAL KİMYA A.S. - ADANA
- TURKUVAZ SERAMİK SAN. VE TIC. A.S. - KAYSERİ
- UĞUR METAL SAN. VE TIC. LTD. STİ. - KOCAELİ
- UYGUNER DERİ SAN. VE TIC. A.S. - ISTANBUL
- UCEL TEKSTİL SAN. VE TIC. LTD. STİ. - SAKARYA
- VASTAS A.S. - TEKIRDAG
- YELKEN OTEL - MUĞLA
- YESİLYURT DEMİR ÇELİK A.S. - SAMSUN
- ZEKE MENSUCAT SAN. VE TIC. A.S. - GAZIANTEP

SOME OF ABOVE LNG CONVERSION PROJECTS HAVE BEEN CONTRACTED FOR HABAS AND KOC-STATOIL.



Sertifika

CERTIFICATE

TROYA DOĞALGAZ PETROL MÜHENDİSLİK SANAYİ VE TİCARET LIMITED ŞİRKETİ

HEAD OFFICE: KORU MAHALLESİ AKMEŞE SOKAK NO:6
ÇANKAYA/ANKARA/TURKEY
FACTORY: ORGANİZE SANAYİ BÖLGESİ MAHALLESİ 13.CADDE NO:3
BATMAN/TURKEY

ISO 9001:2015

Scope

PRESSURE VESSEL MANUFACTURING FOR NATURALGAS, CRUDE OIL AND
GEOTHERMAL INDUSTRIES, OIL FIELD MANAGEMANT, DRILLING PIPELINE
COSTRUCTION, PROJECT DESIGN, CONSULTING AND TRADING

EA 2, 17, 28, 34

This is to certify that the above mentioned company meets the requirement of Quality Management System.

Certification Number	: 01.21.9535.1146427
Date of Initial Reg.	: 3.12.2021
Date of Certificate	: 12.12.2022
Date of Expiry	: 2.12.2023
Certification Period	: 3 years
Revision	: 001

Sigmacert Global Certification
System Certification Approval
Ankara 12.12.2022



SİGMACERT GLOBAL GÖZETİM BELGELENDİRME EĞİTİM ANONİM ŞİRKETİ

📍 Bahçekapı Mahallesi Sanayi Bulvarı Şaşmaz Business Plaza Blok No: 18/22 - 23 - 24 Etimesgut/ANKARA

🌐 www.sigmacertglobal.com 📧 akreditasyon@sigmacertglobal.com ☎️ +90 312 385 08 85

Bu sertifika, müşteri Sigmacert Global'in kurallarına ve sözleşme şartlarına uyduğu sürece geçerlidir. Sertifika geçerlilik durumu Sigmacert Global'in internet sitesinden kontrol edilebilir.
This certificate shall remain valid if the client meets the Sigmacert Global's requirements and terms of the contract. The validity of the certificate can be checked on the Sigmacert Global
FQF.147 Sertifika Formu Rev.04 31.10.2022



Sertifika

CERTIFICATE

TROYA DOĞALGAZ PETROL MÜHENDİSLİK SANAYİ VE TİCARET LİMİTED ŞİRKETİ

HEAD OFFICE: KORU MAHALLESİ AKMEŞE SOKAK NO:6
ÇANKAYA/ANKARA/TURKEY
FACTORY: ORGANİZE SANAYİ BÖLGESİ MAHALLESİ 13.CADDE NO:3
BATMAN/TURKEY

ISO 14001:2015

Scope

PRESSURE VESSEL MANUFACTURING FOR NATURAL GAS, CRUDE OIL
AND GEOTHERMAL INDUSTRIES, OIL FIELD MANAGEMENT, DRILLING
PIPELINE CONSTRUCTION, PROJECT DESIGN, CONSULTING AND
TRADING

EA 2, 17, 28, 34

This is to certify that the above mentioned company meets the requirement of Environmental Management System.

Certification Number	: 02.21.9535.7802
Date of Initial Reg.	: 3.12.2021
Date of Certificate	: 12.12.2022
Date of Expiry	: 2.12.2023
Certification Period	: 3 years
Revision	: 001

Sigmcert Global Certification
System Certification Approval
Ankara 12.12.2022



SİGMACERT GLOBAL GÖZETİM BELGELENDİRME EĞİTİM ANONİM ŞİRKETİ

📍 Bahçokapı Mahallesi Sanayi Bulvarı Şaşmaz Business Plaza Blok No: 18/22 - 23 - 24 Etimesgut/ANKARA

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This certificate shall remain valid if the client meets the Sigmcert Global's requirements and terms of the contract. The validity of the certificate can be checked on the Sigmcert Global's w
FQF.147 Sertifika Formu Rev.04 31.10.2022



Sertifika

CERTIFICATE

TROYA DOĞALGAZ PETROL MÜHENDİSLİK SANAYİ VE TİCARET LİMİTED ŞİRKETİ

MERKEZ : KORU MAHALLESİ AKMEŞE SOKAK NO:6
ÇANKAYA/ANKARA/TÜRKİYE

ŞUBE : ORGANİZE SANAYİ BÖLGESİ MAHALLESİ 13. CADDE NO: 3
BATMAN/TÜRKİYE

ISO 45001:2018

Scope

PRESSURE VESSEL MANUFACTURING FOR NATURALGAS, CRUDE OIL
AND GEOTHERMAL INDUSTRIES, OIL FIELD MANAGEMANT, DRILLING
PIPELINE COSTRUCTION, PROJECT DESIGN, CONSULTING AND
TRADING

This is to certify that the above mentioned Company meets the requirement of Occupational Health & Safety Management System.

Certification Number : MTS-30752
Date of Initial Reg. : 16.05.2023
Date of Certificate : 16.05.2023
Date of Expiry : 15.05.2024

This certificate is valid until the end of the three-year certification period if the organization complies with the certification requirements and the surveillance audits to be carried out at least once a year are completed successfully.

General Manager

www.sigmacert.com.tr
sigmacert
ULUŞLARARASI BELGELENDİRME
EĞİTİM VE TEST HİZMETLERİ LTD.ŞTİ.

Bahçekapı Mahallesi Sanayi Bulvarı
Şaşmaz Business Plaza Apt. No:18/25
Etimesgut/Ankara
Tel: +90 312 385 08 85
belgelendirme@sigmacert.com.tr



T.C. ENERJİ PİYASASI
DÜZENLEME KURUMU

YAPIM VE HİZMET SERTİFİKASI

Sertifika No : YHS/5371-2/1475
Veriliş Tarihi : 25/12/2014

Bu sertifika; TROYA Doğalgaz Petrol Mühendislik Sanayi Ve Ticaret Limited Şirketi'ne, şehir içi dağıtım şebekesine bağlantılı iç tesisat ve servis hatları dışındaki, doğal gaz piyasasında yer alan tesisler için;

FAALİYET KONUSLARI

- PROJE
- YAPIM
- BAKIM ve ONARIM

KATEGORİLER

- Mekanik
- İnşaat, Mekanik
- İnşaat, Mekanik

yukarıda belirtilen faaliyet konuları ve karşılarında belirtilen kategorilerde 10 (on) yıl süre ile faaliyette bulunmak üzere, 4646 sayılı Doğal Gaz Piyasası Kanunu ve ilgili mevzuat uyarınca Enerji Piyasası Düzenleme Kurulu'nun 25/12/2014 tarihli ve 5371-2 sayılı kararı ile verilmiştir.

Mustafa YILMAZ
Başkan

Bu sertifika, ekteki hükümleri ile ayrılmaz bir bütündür.

HEAD OFFICE

Mesa Koru Sitesi, Akmeşe Sokak No: 6

06810 Cayyolu-Ankara / TURKEY

Tel : +90 312 220 34 44

Faks : +90 312 220 34 50

PLANT

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