TR YA

## -Energy Services-

OMPANY PROFIL



## THE COMPANY

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



## ACTIVITIES

## **ENGINEERING & CONSULTANCY**

### 1. Upstream

#### **Reservoir Engineering**

- ✓ Well Logs Evaluation
- ✓ Well Test Program and Evaluation
- ✓ Oil in Place Calculation
- ✓ Reservoir Characterization

#### **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

- ✓ Vessel Design and Analysis
- ✓ Saddle, Leg and Skirt Design
- ✓ Wind and Seismic Analysis

#### Storage Tank Design & Engineering

- ✓ API 650
- ✓ TS 12285-2
- ✓ Calculations
- ✓ Manufacturing Drawings

#### Oil & Gas Field Equipment Design & Engineering

- ✓ II & III Phase Separator
- ✓ Flare Stacks
- ✓ Metering Stations
- $\checkmark$  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

#### **Our Products:**

- ✓ Mud Pump Manifold
- ✓ Choke Manifold
- ✓ Poor Boy Degasser



## REFERENCES

### **ENGINEERING & CONSULTANCY**

### **1. UNDERGROUND NATURAL GAS STORAGE** UNDERGROUND GAS STORAGE PROJECT CONSULTANCY, TURKEY

| Company            |  |
|--------------------|--|
| Date of Completion |  |
| Scope of Project   |  |

- : BOTAS
- : Ongoing
- : 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, 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, IRAQ

| 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            | : | GUNEY YILDIZI A.S.  |
|--------------------|---|---|
| Date of Completion | : | 11.2012   |
| Scope of Project   | : | Supplying radial drilling service to Guney 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 gradiant 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**

#### PIG LAUNCHER & RECEIVER DESIGN AND ENGINEERING, TEKIRDAG/TURKEY

| Company            | : | VALEURA ENERGY INC.  |
|--------------------|---|--|
| Date of Completion | : | 02.2016  |
| Scope of Project   | : | Design and Detailed Engineering of 1 ea 8" and 1 ea 6" Pig |
|                    |   | Launcher and Receiver.                                     |

#### TEST SEPARATOR 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.                       |

#### III 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

| Company            |
|--------------------|
| Date of Completion |
| Scope of Project   |

- : TPAO : 07.2000
- : Following up the daily operations of 35 gas wells and 4 oil wells in Hamitabat Gas, Osmancık 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. PIPELINES**

#### 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 |
|                    |   | taking into account 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 PIPE LINE 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

#### 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   | : | Şelmo 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<br>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            | : | PEMI   |
|--------------------|---|--|
| 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**

#### 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<br>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 PIPE LINE CONSTRUCTION, USAK/TURKEY

| Company            | : | Tepe Altyapı 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 PIPE LINE CONSTRUCTION, KUTAHYA/TURKEY

| Company            | : | Tepe Altyapı 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 PIPE LINE 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.  |

#### GOCERLER-MISINLI NATURAL GAS PIPELINE CONSTRUCTION, CORLU-

| <b>TEKIRDAG/TURKEY</b> |   |   |
|------------------------|---|---|
| Company                | : | AMITY OIL INT. PTY. LTD., AUSTRALIA                           |
| Date of Completion     | : | 12.2001   |
| Scope of Project       | : | Procurement line pipe/valves, valve chamber construction,     |
|                        |   | cathodic protection, hydrostatic test and commissioning of 8" |
|                        |   | 18,465 m pipeline project.                                    |

#### 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 be             | etwee | en Muratli | and Tekirdag ga | s field. |     |



## **MATERIAL SUPPLY**

#### EQUIPMENT SUPPLY FOR GEOTHERMAL DRILLING, TURKEY

| Company          | : | KARADENIZ HOLDING  |
|------------------|---|--|
| Scope of Project | : | Supply of 2 ea PDC Bits and 13 ea 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          | : | SIS ENERJI URETIM A.S.   |
|------------------|---|--|
| Scope of Project | : | 4 ea 17 <sup>1</sup> / <sub>2</sub> " Rock Bits Supply for Geothermal Drilling |

#### EQUIPMENT SUPPLY FOR GEOTHERMAL DRILLING, TURKEY

| Company          | : | TURKERLER JEOTERMAL ENERJI ARAMA ve URETIM A.S          |
|------------------|---|---|
| Scope of Project | : | 2 ea 12 ¼" and 2 ea 8 ½" PDC Bits Supply for Geothermal |
|                  |   | Drilling  |

#### EQUIPMENT SUPPLY FOR GEOTHERMAL DRILLING, TURKEY

| Company          | : | TURKERLER JEOTERMAL ENERJI ARAMA ve URETIM A.S |
|------------------|---|--|
| Scope of Project | : | 22,100 meters Casing for Geothermal Drilling   |

#### EQUIPMENT SUPPLY FOR GEOTHERMAL DRILLING, TURKEY

| Company          | : | GURSUM ENERJI A.S.                  |
|------------------|---|-------------------------------------|
| Scope of Project | : | Casing, Wellhead Equipment and Floa |

| Scope of Project | : | Casing, Wellhead Equipment and Floating Equipment supply for |
|------------------|---|--|
|                  |   | Geothermal Drilling  |

#### EQUIPMENT SUPPLY FOR GEOTHERMAL DRILLING, TURKEY

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



#### **OILFIELD EQUIPMENT SUPPLY, TURKEY**

| Company          | : | GUNEY 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. STI.                                      |
|------------------|---|--|
| 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          | : | GUL SONDAJ LTD. STI.   |
|------------------|---|--|
| 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 ENERJI A.S.                       |
|------------------|---|---------------------------------------|
| Scope of Project | : | Tubing supply for Geothermal Drilling |

#### DRILLING EQUIPMENT SUPPLY, TURKEY

| Company          | : | BM HOLDING/GUMUSKOY JEOTERMAL ENERJI 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 IPEK 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 ½" 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 |  |
|                         |     | Pipe Line  |  |
|                         |     |  |  |
| ACTUATOR SUPPLY, TUR    | KEY |  |  |
| 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<br/>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 Nm<sup>3</sup>/h RMS A CONSTRUCTION, IZMIR/TURKEY

| Company            | : | IZMIRGAZ  |
|--------------------|---|---|
| Date of Completion | : | 11.2007   |
| Scope of Project   | : | Design and detailed engineering of 50,000 m <sup>3</sup> /h Capacity Pinlet |
|                    |   | 75 bar Poutlet 19 bar NG Reducing and Measuring Station with                |
|                    |   | Pipeline Connections to Main Distribution System.                           |

#### ALIAGA 20,000 Nm<sup>3</sup>/h RMS A CONSTRUCTION, IZMIR/TURKEY

| Company            | : | IZMIRGAZ  |
|--------------------|---|---|
| Date of Completion | : | 02.2007   |
| Scope of Project   | : | Design and detailed engineering of 20,000 m <sup>3</sup> /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 NM<sup>3</sup>/H RMS-A, IZMIR/TURKEY

| Company            | : | IZMIRGAZ  |
|--------------------|---|---|
| Date of Completion | : | 03.07.2006  |
| Scope of Project   | : | Design and detailed engineering of 25,000 m <sup>3</sup> /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 : | Guzel | ler Inc | lustrial | Estate A | rea |
|-----------|-------|---------|----------|----------|-----|
|-----------|-------|---------|----------|----------|-----|

- Date of Completion : 19.01.2006
- Scope of Project:Design and detailed engineering of 900 m. 6"-4" high pressure<br/>steel pipeline, 4,700 m. 180-32 mm. medium pressure<br/>polyethylene pipeline.

#### TUZLA-TEPEOREN 45,000 Nm<sup>3</sup>/h RMS A, ISTANBUL/TURKEY

| Company            | : | IGDAS   |
|--------------------|---|---|
| Date of Completion | : | 17.08.2005  |
| Scope of Project   | : | Design and detailed engineering of 45,000 m <sup>3</sup> /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 piece RMS-B stations with 13,000 |
|                    |   | m3/h flow.  |

#### 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 REFINARY NATURAL GAS TRANSMISSION LINE CONSTRUCTION, KIRIKKALE/TURKEY

| Company            | : | TUPRAS-KIRIKKALE Rafinary                                       |
|--------------------|---|---|
| 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**

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- ✓ AYDIN KURUYEMIS SAN. VE TIC. LTD. STI SAKARYA
- ✓ BAKIRLAR TEKSTIL SAN. VE TIC. A.S. ADANA
- ✓ BARUT HOTELS ANTALYA
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- ✓ BERDAN TEKSTIL SAN. VE TIC. A.S. TARSUS/MERSIN
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- ✓ CEVAHIR DERI SAN. VE TIC. LTD. STI. -ISTANBUL
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- ✓ ETAP TARIM SAN. VE TIC. A.S. MERSIN
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- ✓ KAYALAR BAKIR ALASIMLARI SAN. VE TIC. A.S. CORLU, TEKIRDAG
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- ✓ 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
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- ✓ UYGUNER DERI SAN. VE TIC. A.S. ISTANBUL
- ✓ UCEL TEKSTIL SAN. VE TIC. LTD. STI. SAKARYA
- ✓ VASTAS A.S. TEKIRDAG
- ✓ YELKEN OTEL MUGLA
- ✓ YESILYURT DEMIR CELIK A.S. SAMSUN
- ✓ ZEKI MENSUCAT SAN. VE TIC. A.S. GAZIANTEP

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



## CERTIFICATES

# Certificate

| Standard   | ISO 9001:2008   |
|--|---|
| Certificate Registr. No.                                       | 01 100 042828   |
|  |   |
| Certificate Holder:  | TROYA DOĞALGAZ PETROL MÜHENDİSLİK SAN. VE TİC.<br>LTD. ŞTİ.   |
|  | <b>Merkez:</b> Mesa Koru Sitesi Akmeşe Sok.No: 6<br>06810 Çayyolu / ANKARA / TURKEY<br><b>Atölye:</b> Organize Sanayi Bölgesi 1.Cadde No: 23<br>BATMAN / TURKEY |
| Scope:   | Oil, Natural Gas and Geothermal Pipeline, Piping, Field<br>Management, Drilling, Designing/Projecting, Consultancy and<br>Trading, Surface Facility Upgrading   |
|  | Proof has been furnished by means of an audit that the requirements of ISO 9001:2008 are met.   |
|  | The due date for all future audits is 05-05 (dd.mm).  |
| Validity:  | The certificate is valid from 2014-06-06 until 2016-05-05.<br>First certification 2004  |
|  | 2014-06-06<br>TÜV Rheinland Cert GmbH<br>Am Grauen Stein · 51105 Köln   |
| DARKS<br>Deutsche<br>Akkreditierungsstelle<br>D-ZM-16031-04-00 |   |
|  |   |
|  |   |

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## CONTACTS

## **HEAD OFFICE**

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## PLANT

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Batman / TURKEY

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