



## Experience of work in Kazakhstan

| <b>Oil refining industry</b>  |  |
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| <b>Tengiz Refinery,</b><br>Atyrau Region,<br>1993   | <b>Crude oil desulfurization line (Claus, Sulfrin processes):</b> <ul style="list-style-type: none"><li>- engineering supervision of equipment installation;</li><li>- pre-commissioning, start-up and commissioning.</li></ul>  |
| <b>Karachaganak motor fuels production plant of JSC "Condensat",</b><br>Aksay, West Kazakhstan Region,<br>1998      | <b>Gas Condensate primary distillation unit (low capacity Unit MTU-400) supplied by Propac (Canada):</b> <ul style="list-style-type: none"><li>- engineering supervision of construction;</li><li>- putting into operation.</li></ul>  |
| <b>JSC "Condensat",</b><br>Uralsk, West Kazakhstan Region,<br>2001  | <b>Diesel Fuel demercaptanization Unit:</b> <ul style="list-style-type: none"><li>- participation in design documentation development.</li></ul>   |
| <b>Karachaganak motor fuels production plant of JSC "Condensat",</b><br>Aksay, West Kazakhstan Region,<br>2001-2003 | <b>Gas Condensate primary distillation unit (low capacity Unit MTU-400) supplied by Propac (Canada):</b> <ul style="list-style-type: none"><li>- re-putting into operation;</li><li>- engineering supervision of operation;</li><li>- training of operating personnel;</li><li>- tank farm development.</li></ul>  |
| <b>Atyrau Refinery,</b><br>Atyrau,<br>2003-2004   | <b>Tank Farm 34b:</b> <ul style="list-style-type: none"><li>- detail engineering of 34b Tank Farm incorporation into overall control system, based on Automatic Process Control System.</li></ul>  |
|   | <b>Tank Farms 2, 3a:</b> <ul style="list-style-type: none"><li>- installation of instrumentation, fire alarm and communication systems.</li></ul>  |
| <b>JSC "Condensat",</b><br>Uralsk, West Kazakhstan Region,<br>2004  | <b>Heavy Naphtha demercaptanization Unit:</b> <ul style="list-style-type: none"><li>- design development.</li></ul>  |
| <b>Atyrau Refinery,</b><br>Atyrau,<br>2005-2006   | <b>Development of Process Procedures and Emergency Response Plans of the following units:</b> <ul style="list-style-type: none"><li>- diesel fuel hydrotreating and dewaxing unit;</li><li>- gasoline hydrotreating and dewaxing unit;</li><li>- hydrogen generation and treating unit;</li><li>- sulfur recovery unit;</li><li>- cooling tower of recirculated water supply;</li><li>- unit of biological treatment of waste water. .</li></ul> |
| <b>Atyrau Refinery,</b><br>Atyrau,<br>2005-2007   | <b>Pre-commissioning/start-up and commissioning; engineering and technical supervision of the following units operation:</b> <ul style="list-style-type: none"><li>- diesel fuel hydrotreating and dewaxing unit;</li><li>- gasoline hydrotreating and izomerization unit;</li><li>- hydrogen generation and treating unit;</li><li>- sulfur recovery unit.</li></ul>  |



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| <b>Pavlodar Oil Chemistry Refinery,</b><br>Pavlodar,<br>2008-2009          | <b>Hydrogen Production Unit:</b><br><br>- pre-commissioning, start-up and commissioning.   |
| <b>JSC "Condensat",</b><br>Uralsk, West Kazakhstan<br>Region,<br>2009-2010 | <b>Condensing Section of weathering and stabilization gases:</b><br><br>- pre-commissioning, start-up and commissioning;<br>- training of operating personnel. |
| <b>TOO "Aktobe neftepererebotka ",</b><br>Aktobe,<br>2010-2011             | <b>Crude oil primary distillation unit:</b><br><br>- engineering supervision of construction.  |
| <b>JSC "Condensat",</b><br>Uralsk, West Kazakhstan<br>Region,<br>2011      | <b>Super-gasoline components production complex:</b><br><br>- concept design stage.  |

## Gas processing industry

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| <b>CTI of KazMunayGaz ,</b><br>Atyrau,<br>2003                                 | <b>Recovery unit of associated oil gas of Sazankurak oilfield:</b><br><br>- development of feasibility study of construction.   |
| <b>JSC "CNPC-Aktobemunaygaz"</b><br>Zhanazhol, Aktyubinsk Region,<br>2007-2009 | <b>The first stage of the third Zhanazhol Oil and Gas Processing Plant:</b><br><br>- training of operating personnel;<br>- putting into operation;<br>- engineering and technical supervision of operation. |
| <b>TOO "Aksayspetsmontazh",</b><br>Aksay,<br>West Kazakhstan Region,<br>2008   | <b>Gas preparation plant UKPG-2 Karachaganak oilfield (operator - Karachaganak Petroleum Operating):</b><br><br>- development of Process Procedure (with translate on English).                             |

## Oil and gas fields construction

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| <b>JSC "Condensat",</b><br>Uralsk, West Kazakhstan Region,<br>2002 | <b>Teplovsko-Tokarevskoye oil field:</b><br><br>- participation in field construction project (three-phase separation, crude oil demercaptanization, alkaline solution regeneration, flare system). |
| <b>JSC "UzenMunayGaz",</b><br>Mangystau Region,<br>2002            | <b>Oil treatment plant with high level of oil desalination and dehydration):</b><br><br>- participation in development of construction feasibility study.   |
| <b>JSC "CNPC-Aktobemunaygaz" ,</b><br>Aktyubinsk Region,<br>2003   | <b>Oil treatment plants of Zhanazhol oil and gas condensate field and Kenkiyakneft oil and gas producing department:</b><br><br>- development of reconstruction feasibility study.                  |



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| <b>JSC "KaspiyNeft TME"</b> ,<br>Aktyubinsk Region,<br>2004               | <b>Oil loading depot of South Alibek oil field:</b><br><br>- pre-commissioning, start-up and commissioning.   |
| <b>TOO "Zhaikmunay"</b> ,<br>Uralsk, West Kazakhstan Region,<br>2007-2008 | <b>Crude oil demercaptanization unit of Chinarevsk oil and gas condensate field:</b><br><br>- pre-commissioning, start-up and commissioning.  |
| <b>TOO "Zhaikmunay"</b> ,<br>Uralsk, West Kazakhstan Region,<br>2008      | <b>Oil treatment plant of Chinarevsk oil and gas condensate field:</b><br><br>- development of Process Procedure.   |
| <b>TOO "Karakudukmunay"</b> ,<br>Mangystau Region,<br>2008-2009           | <b>Oil treatment plant and Gas preparation plant of Karakuduk oil field:</b><br><br>- development of Process Procedures, Emergency Response Plans and operation instructions.                     |
| <b>"PM Lucas Kazakhstan" LLC</b> ,<br>Mangystau Region,<br>2009           | <b>Komsomolskoe oil field (KomMunai LLC):</b><br><br>- consulting of development and acquisition the documentation for working commission;<br>- training of operating personnel.                  |
| <b>JSC "Turgai Petroleum"</b> ,<br>Kzylorda Region,<br>2009               | <b>Gas preparation plant of Kumkol oil field:</b><br><br>- pre-commissioning, start-up and commissioning.   |
| <b>TOO "SarMat Energy"</b> ,<br>Mangystau Region,<br>2009                 | <b>Gas preparation plant of Dunga oil field:</b><br><br>- consulting of development and acquisition the documentation for working commission;<br>- pre-commissioning, start-up and commissioning. |
| <b>TOO "Zhaikmunay"</b> ,<br>Uralsk, West Kazakhstan Region,<br>2009-2011 | <b>Gas preparation plant of Chinarevsk oil and gas condensate field:</b><br><br>- participation in Project Management Team;<br>- construction supervision.  |
| <b>TOO "Kazakhoil Aktobe"</b> ,<br>Aktobe Region,<br>2009-2011            | <b>Gas preparation plants of Alibekmola and Kozhasai oil and gas condensate fields:</b><br><br>- independent analysis of Basic and Detail Design Packages;<br>- construction supervision.         |
| <b>TOO "Maersk Oil Kazakhstan"</b> ,<br>Mangystau Region,<br>2010         | <b>Gas preparation plant of Dunga oil field:</b><br><br>- training of operating personnel.  |



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| <b>TOO "Zhaikurylys",</b><br>Uralsk, West Kazakhstan Region,<br>2010              | <b>Oil treatment plant of Chinarevsk oil and gas condensate field<br/>TOO "Zhaikmunay":</b> <ul style="list-style-type: none"><li>- pre-commissioning, start-up and commissioning;</li><li>- training of operating personnel;</li><li>- development of operating manuals.</li></ul> |
| <b>"PM Lucas Kazakhstan" LLC,</b><br>Uralsk, West Kazakhstan Region,<br>2010-2011 | <b>Formation pressure rise system of Chinarevsk oil and gas<br/>condensate field TOO "Zhaikmunay":</b> <ul style="list-style-type: none"><li>- training of operating personnel;</li><li>- development of operating manuals.</li></ul>   |

## Hydrocarbons Transportation and Storage

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| <b>JSC "KazTransOil",</b><br>2003-2004   | <b>West Branch of JSC KazTransOil::</b> <ul style="list-style-type: none"><li>- installation of oil and gas meters at oil heating furnaces (design development, supply, installation and putting into operation). .</li></ul>  |
| <b>JSC "Condensat",</b><br>Uralsk, West Kazakhstan<br>Region,<br>2004            | <b>Oil Tank Farm Kazakhstanskaya:</b> <ul style="list-style-type: none"><li>- development of Automatic Control System design.</li></ul>  |
| <b>TOO "Zhaiktrans",</b><br>Uralsk, West Kazakhstan<br>Region,<br>2006           | <b>Uralsk Oil Terminal, Uralsk-Samara oil pipeline:</b> <ul style="list-style-type: none"><li>- development of Process Procedures.</li></ul>   |
| <b>TOO "Standart Gaz",</b><br>Atyrau Region,<br>2006                             | <b>LPG storage and sales depot:</b> <ul style="list-style-type: none"><li>- development of process procedures and emergency response plan.</li></ul>   |
| <b>JSC "KazStroyService",</b><br>Uralsk, West Kazakhstan<br>Region,<br>2008-2009 | <b>Technology complex "Chinarevsk - Rostoshi (oil pipeline and<br/>oil terminal):</b> <ul style="list-style-type: none"><li>- development of process procedure and emergency response plan;</li><li>- consulting of development and acquisition the documentation for working<br/>commission;</li><li>- training of operating personnel.</li></ul> |
| <b>TOO "Zhaikmunay",</b><br>Uralsk, West Kazakhstan<br>Region,<br>2008-2009      | <b>Technology complex "Chinarevsk - Rostoshi" (oil pipeline and oil<br/>terminal):</b> <ul style="list-style-type: none"><li>- maintenance supervision.</li></ul>  |
| <b>JSC "Condensat",</b><br>Uralsk, West Kazakhstan<br>Region,<br>2011            | <b>Crude oil and oil products terminal:</b> <ul style="list-style-type: none"><li>- front and engineering design stage.</li></ul>  |



| <b>Chemical industry</b>   |   |
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| <b>Prikaspiysky Ore Mining and Treatment Complex,</b><br>Mangystau Region,<br>1977 | <b>Ammonia, nitric acid and ammonium nitrate production plants:</b><br><br>- engineering and technical supervision of construction;<br>- putting into operation.  |
| <b>Dzhambul Chemical Complex,</b><br>Jambyl Region,<br>1978                        | <b>Terminal of Liquid ammonia:</b><br><br>- engineering supervision of construction;<br>- putting into operation.   |
| <b>TOO "KazAzot",</b><br>Aktau, Mangystau Region,<br>2007-2008                     | <b>Reconstruction of existing production plants and construction of new production plants (ammonia, urea, nitric acid, ammonium nitrate plants):</b><br><br>- project management;<br>- engineering and technical supervision. |
| <b>TOO "Kaspiy Azot",</b><br>Aktau, Mangystau Region,<br>2009-2011                 | <b>Ammonia and Urea Complex Construction:</b><br><br>- project management;<br>- engineering and technical supervision.  |