

TENGE JV

**Competent Person's Report
Tenge Field - Kazakhstan**

As of December 31, 2010



McDaniel
& Associates Consultants Ltd.

TENGE JV

Competent Person's Report Tenge Field – Kazakhstan

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Prepared For:

**Tenge JV LLP
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May 2011

TENGE JV

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May 5, 2011

Tenge JV LLP

Microdistrict 3/6
Zhanaozen City, 130200
Kazakhstan

Reference: **Tenge JV LLP**
Competent Persons Report as of December 31, 2010

Attention: Mr. Daniyar Mukushev, General Director

Dear Sir:

1 INTRODUCTION

Pursuant to your request we have prepared an evaluation of the crude oil and natural gas reserves and the net present values of these reserves for the interests of Tenge JV LLP (“Tenge JV”) in Jurassic Zones 18, 21, 22 and 23 of the Tenge Field in Western Kazakhstan, as of December 31, 2010.

The future net revenues and net present values presented in this report were calculated using forecast prices and costs using McDaniel & Associates opinion of future crude oil and natural gas prices at January 1, 2011 and were presented in United States dollars.

The reserves estimates and future net revenue forecasts have been prepared in accordance with the 2007 SPE/WPC/AAPG/SPEE Petroleum Resource Management System. The format and content of this report follows the guidance set out in the June 2009 Note for Mining and Oil & Gas Companies published by the London Stock Exchange.

Standard industry practice for reserves evaluations in a country that does not have a history of production contract extensions past the contract expiry date (such as Kazakhstan) is to only assign reserves that are forecast to be produced up to the contract expiry date. The reserves presented in this report are those produced to the end of the contract but those reserves expected to be produced to the end of the field life are also presented in separate tables for illustrative purposes.

This evaluation was prepared during the period from March to May 2011 and was based on technical and financial data to the end of December 2010. Tenge JV has provided McDaniel & Associates with written representation to confirm the completeness and accuracy of the data provided and that no new data or information has been acquired between December 31, 2010 and the date of this report which might materially impact our opinions in this report.

2 CORPORATE SUMMARY

Tenge JV has an interest in the Tenge field in Kazakhstan as shown in Figure 1 below:

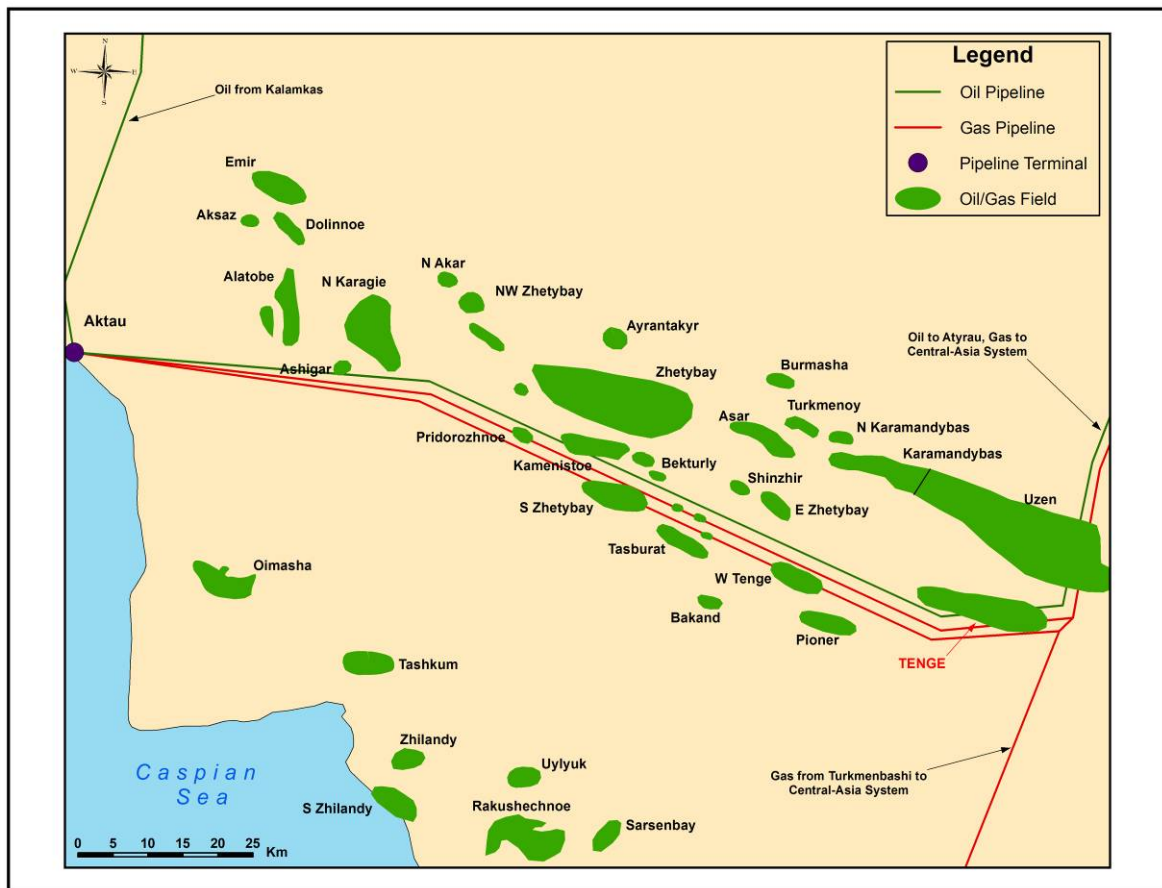


Figure 1 – Location Map for the Tenge Field in Kazakhstan

A summary of Tenge JV's ownership in the Tenge field is presented in Table 1 below.

Table 1 - Tenge JV Asset Summary

| Oil & Gas Field | Country | Operating Company | Contract Type | Interest | Contract Expiry Date | Area (sq.km) |
|-----------------|------------|-------------------|---------------|----------|----------------------|--------------|
| Tenge | Kazakhstan | Tenge JV | Production | 100% | Sept 5, 2020 | 154 |

2.1 Reserves

Tenge JV's gross and net working interest share of the remaining crude oil and natural gas reserves, as of December 31, 2010 are presented in Table 2 below:

Table 2 - Tenge JV Crude Oil and Natural Gas Reserves Summary

Crude Oil and Natural Gas Reserves at December 31, 2010, Mbbl, MMcf (1)

| | Proved Prod. | Proved Undev. | Total Proved | Probable | Total Proved plus Probable | Total Possible | Total Proved plus Probable plus Possible |
|----------------------------------|-----------------|------------------|-----------------|----------|-------------------------------------|-------------------|---|
| Crude Oil | | | | | | | |
| Gross (2) | 393 | 8,165 | 8,558 | 45,443 | 54,000 | 35,916 | 89,917 |
| Net (3) | 369 | 7,620 | 7,989 | 40,539 | 48,529 | 31,267 | 79,796 |
| Natural Gas | | | | | | | |
| Gross (2) | - | - | - | 209,267 | 209,267 | 126,047 | 335,313 |
| Net (3) | - | - | - | 188,340 | 188,340 | 113,442 | 301,782 |
| Barrels of Oil Equiv. (4) | | | | | | | |
| Gross (2) | 393 | 8,165 | 8,558 | 80,320 | 88,878 | 56,924 | 145,802 |
| Net (3) | 369 | 7,620 | 7,989 | 71,929 | 79,919 | 50,174 | 130,093 |

(1) Reserves are estimated to the end of the current contract (September 5, 2020).

(2) Gross reserves include Tenge JV's 100 percent working interest reserves before deductions of royalty.

(3) Net reserves include gross reserves after deduction of royalty.

(4) Based on a conversion of 6 thousand cubic feet of natural gas equal to 1 barrel of oil equivalent.

2.2 Net Present Values of the Reserves

The net present values of the reserves were based on future production and revenue analyses. Tenge JV's share of the net present values of the reserves were based on forecast prices and costs as of December 31, 2010 are presented in Table 3 below:

Table 3 – Tenge JV Net Present Value Summary

Net Present Values at December 31, 2010 (1) (US\$1000)

| | 0% | 5% | Discounted At 10% | 15% | 20% |
|---|-----------|-----------|----------------------|-----------|-----------|
| Before Income Taxes (2) (3) | | | | | |
| Proved Producing Reserves | 14,384 | 12,132 | 10,432 | 9,119 | 8,084 |
| Proved Undeveloped Reserves | 174,804 | 125,761 | 90,510 | 64,745 | 45,639 |
| Total Proved Reserves | 189,188 | 137,893 | 100,943 | 73,865 | 53,724 |
| Probable Reserves | 2,054,269 | 1,505,937 | 1,123,342 | 850,304 | 651,505 |
| Total Proved + Probable Reserves | 2,243,457 | 1,643,831 | 1,224,284 | 924,169 | 705,229 |
| Possible Reserves | 1,789,182 | 1,306,476 | 971,573 | 733,989 | 562,051 |
| Total Proved + Probable + Possible Reserves | 4,032,639 | 2,950,306 | 2,195,857 | 1,658,158 | 1,267,280 |
| After Income Taxes (2) (3) | | | | | |
| Proved Producing Reserves | 13,844 | 11,673 | 10,035 | 8,769 | 7,771 |
| Proved Undeveloped Reserves | 122,530 | 83,972 | 56,596 | 36,852 | 22,426 |
| Total Proved Reserves | 136,374 | 95,645 | 66,630 | 45,621 | 30,196 |
| Probable Reserves | 1,252,495 | 899,356 | 654,424 | 480,834 | 355,437 |
| Total Proved + Probable Reserves | 1,388,868 | 995,002 | 721,054 | 526,455 | 385,633 |
| Possible Reserves | 1,048,917 | 760,670 | 560,400 | 418,244 | 315,393 |
| Total Proved + Probable + Possible Reserves | 2,437,785 | 1,755,671 | 1,281,454 | 944,699 | 701,026 |

(1) Net present values are estimated to the end of the current contract (September 5, 2020).

(2) The net present values may not necessarily represent the fair market value of the reserves.

(3) The value of all wells and facilities are included in the net present value estimates

3 PROPERTY OVERVIEW

The Tenge field is located in the Mangistau region of Western Kazakhstan approximately 150 kilometers east of the city of Aktau as shown in Figure 1. The field is a large four way dip closed anticline structure measuring approximately twenty by three kilometers and is positioned immediately to the south of the large Uzen field.

The Tenge field was discovered in 1964 and has been developed as a gas field from five Jurassic intervals (zones 13 to 17) with production starting in 1970. Gas production from these intervals reached a maximum of 220 MMcfpd in 1974 before declining rapidly and for the last 10 years the field has produced less than 10 MMcfpd. The production is used to supply gas to the Uzen field and the local town of Zhanaozen, but the current economics are understood to be marginal. These shallow gas reservoirs were not included as part of this evaluation.

Below the depleted gas zones there are a number of additional Jurassic intervals which, unlike the shallower zones, also have oil bearing intervals in the form of oil rims. (The term oil rim is used in this report to denote an oil zone that is overlain by a gas cap and underlain by a water leg.) These intervals, which are located at depths below 1,600 meters subsea ("m ss"), are referred to as Zones 18, 21, 22 and 23 and are largely undeveloped and are the focus of this report.

The field has approximately 60 wells drilled to date. Nearly all the wells were drilled during the 1960's and 1970's. The wells that intersected the deeper oil bearing zones were often tested immediately after drilling with typical rates in the range of 10 to 300 bopd. The oil is light (36° API) and waxy which is typical of the area. The composition of the gas within the gas caps is predominantly methane (butane and heavier components amount to less than 1 mol percent) and does not contain hydrogen sulphide.

Whilst the original intention was probably to leave the deeper zones until the oil intervals could be properly exploited, there were five gas wells that were re-completed on the deeper gas caps. The most significant gas production was from zones 22 and 23 where four wells produced a total of 90 Bcf between 1972 and 1980 (approximately 30 percent of the original gas in place). As production from two of the re-completed wells was commingled with production from the shallower intervals (zones 14, 15 and 16), the production allocation is uncertain. It is not clear what the impact of this production has been on the associated oil intervals.

Since 2000 approximately seven of the old gas wells have been recompleted on the oil rims with somewhat mixed results. Only five wells have managed to sustain production and of the 890,000 bbl of oil produced to date 86 percent of this comes from two wells (TE-6 and TE-52) which are both producing within 200 meters of each other from the oil rim on zone 18. Initially these two wells each produced at rates over 200 bopd. Current production is around 260 bopd from the four producing wells. Oil from TE-6 and TE-52 is gathered at a small group station where the gas is separated and flared. The other wells, TE-2 and TE-58 both produce to a tank alongside each well which is open to the atmosphere to allow any gas to be vented. All the produced liquids are then trucked to the nearby Uzen processing facility (CPF) owned by

KazMunaiGas. Here any water is removed and the oil is treated to the specifications required by the KazTransOil operated pipeline which is linked to the main Atyrau-Samara system.

Whilst it was originally hoped that the deeper reservoirs could be developed at relatively low cost using the old gas wells it now appears, due to the state of these very old wells and the difficulty in re-completing wells to date, that new wells will be required to properly develop the field. In 2002 a new well was drilled (TE-235) to target the oil interval in zone 23, however, the results were somewhat disappointing. The resistivity measurements across the section where the oil should be present are very low suggesting either very low or no hydrocarbon saturation. The resistivity measurements across the section where the oil should be present are very low suggesting either very low or no hydrocarbon saturation. Operations at the well were suspended due, in part, to a change in ownership of the field. There is some concern that the earlier gas production on zones 22 and 23 may have affected the oil rim causing it to partly migrate into the gas cap. Due to this risk no oil reserves for an oil rim development in zones 22 and 23 have been assigned as part of this evaluation.

In February 2008 drilling of a new well, TE-467, close to wells TE-6 and TE-52 was started. Unfortunately, after a number of months the drilling had to be stopped prior to reaching the reservoir section due to problems with the rig and the drilling contractor. Tenge JV has plans to drill a number of new vertical wells around the field area to gather some much needed up to date data, particularly on the state of the oil bearing intervals in zones 22 and 23, the current reservoir pressures and to help improve the geological model. Tenge is also planning to drill some horizontal wells as ultimately the development of the oil rims will require the drilling of horizontal wells to minimize the risk of coning gas and/or water.

The exact development plans will depend on the results of further study work that Tenge JV intends to undertake. Through further integration of the existing subsurface well data and 3D seismic data (which shows some indications of channel like features) it is hoped to better understand the geometry of the reservoir and to characterize the channel systems.

Gas reserves have been assigned as part of this evaluation as the field is close to gas export pipelines and the gas market in Western Kazakhstan is to some degree established. Proved gas reserves have not been assigned as there is no gas contract in place for the gas in zones 18 to 23.

Further exploration potential may exist in the Triassic which lies below the existing Jurassic hydrocarbon bearing reservoirs. The Triassic represents a secondary target within the Mangyshlak area and five old wells in Tenge were drilled deep enough to encounter potential pay sections. Three of these wells (TE-51, TE-55, TE-58) are reported to have tested small amounts of oil, but they did not support flow to surface. The Triassic potential was not included as part of this evaluation.

4 OWNERSHIP AND CONTRACT TERMS

The licensing and contractual arrangements for the field are complex due to changes in the State sub-surface laws, a number of ownership changes and some legal disputes all of which have occurred since an original Tenge Joint Enterprise foundation agreement was signed in 1993 between MangistauMunaiGas (then fully owned by the State) and Anglo-Dutch a US company. Tenge JV has informed us that all the historical contractual and legal issues are currently resolved and that Tenge JV holds a 100 percent working interest in the Tenge Joint Enterprise.

The terms of the original sub-soil use license covering the field were revised in 2009 and the field is now required to pay taxes in line with the current Kazakh tax code. These include mineral extraction tax, export rent tax, property tax, corporation tax, excess profits tax and some other minor taxes. The sub-soil use license covering the field was registered on September 1, 1995 for a period of 25 years and is set to expire on September 5, 2020. There is a provision within the contract for a possible extension of between 5 and 15 years. The Ministry of Energy and Mineral Resources has written to Tenge JV outlining that any extension would need to be negotiated in 2018 two years before the current expiry.

The existing contract allows for the full development of all the hydrocarbon zones including zones 18, 21, 22 and 23. A technological scheme was originally approved for the field in 1997. In 2008 a revised technological scheme was approved based on drilling vertical and horizontal wells and providing pressure support through water injection.

A summary of the economic terms are presented in Table 10 of the Appendix.

5 RESERVES DEFINITIONS

The definitions employed in this evaluation conform to the 2007 Petroleum Resource Management System jointly published by the Society of Petroleum Engineers (“SPE”), World Petroleum Council (“WPC”), American Association of Petroleum Geology (“AAPG”) and the Society of Petroleum Evaluation Engineers (“SPEE”).

5.1 Resources

The term “resources” is intended to encompass all quantities of petroleum naturally occurring on or within the Earth’s crust, discovered and undiscovered (recoverable and unrecoverable), plus those quantities already produced. Further, it includes all types of petroleum whether currently considered “conventional” or “unconventional.”

The resources classification framework is summarized in Figure 2 and a summary of the definitions are given below.

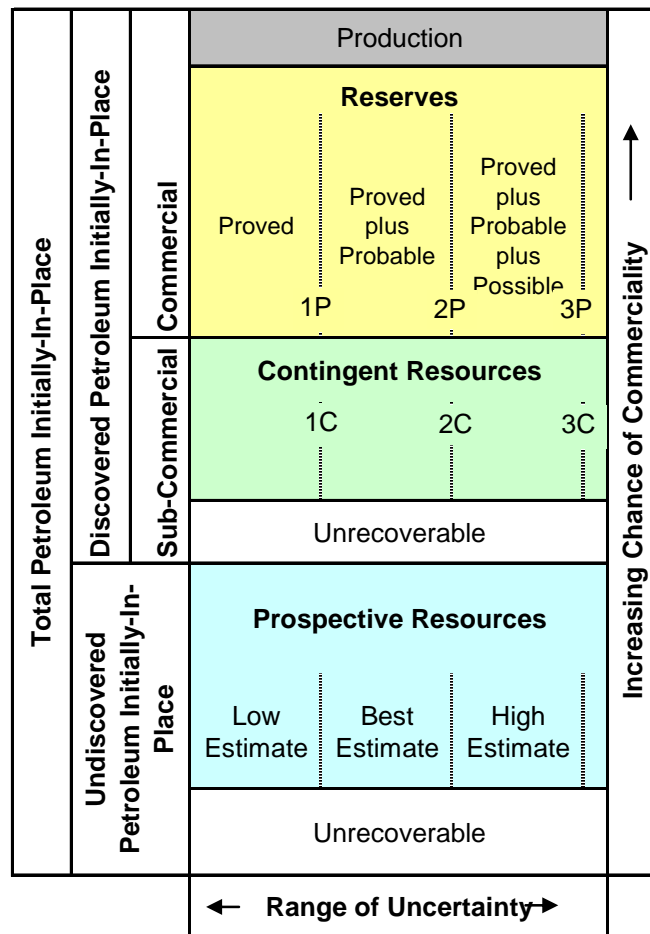


Figure 2 – Resource Classification Framework

The “Range of Uncertainty” reflects a range of estimated quantities potentially recoverable from an accumulation by a project, while the vertical axis represents the “Chance of Commerciality”, that is, the chance that the project that will be developed and reach commercial producing status.

The quantities estimated to be initially-in-place are defined as Total Petroleum-initially-in-place, Discovered Petroleum-initially-in-place and Undiscovered Petroleum-initially-in-place, and the recoverable portions are defined separately as Reserves, Contingent Resources, and Prospective Resources. Reserves constitute a subset of resources, being those quantities that are discovered (i.e. in known accumulations), recoverable, commercial and remaining.

Reserves

Reserves those quantities of petroleum anticipated to be commercially recoverable by application of development projects to known accumulations from a given date forward under defined conditions. Reserves must further satisfy four criteria: they must be discovered, recoverable, commercial, and remaining (as of the evaluation date) based on the development project(s) applied. Reserves are further categorized in accordance with the level of certainty associated with the estimates and may be sub-classified based on project maturity and/or characterized by development and production status.

The reserve classification system is covered in Section 5.3.

Contingent Resources

Contingent Resources are those quantities of petroleum estimated, as of a given date, to be potentially recoverable from known accumulations, but the applied project(s) are not yet considered mature enough for commercial development due to one or more contingencies. Contingent Resources may include, for example, projects for which there are currently no viable markets, or where commercial recovery is dependent on technology under development, or where evaluation of the accumulation is insufficient to clearly assess commerciality. Contingent Resources are further categorized in accordance with the level of certainty associated with the estimates and may be sub-classified based on project maturity and/or characterized by their economic status.

Prospective Resources

Prospective Resources are those quantities of petroleum estimated, as of a given date, to be potentially recoverable from undiscovered accumulations by application of future development projects. Prospective Resources have both an associated chance of discovery and a chance of development. Prospective Resources are further subdivided in accordance with the level of certainty associated with recoverable estimates assuming their discovery and development and may be sub-classified based on project maturity.

5.2 Range of Uncertainty

The range of uncertainty of the recoverable and/or potentially recoverable volumes may be represented by either deterministic scenarios or by a probability distribution. When the range of uncertainty is represented by a probability distribution, a low, best, and high estimate shall be provided such that:

There should be at least a 90 percent probability (P90) that the quantities actually recovered will equal or exceed the low estimate.

There should be at least a 50 percent probability (P50) that the quantities actually recovered will equal or exceed the best estimate.

There should be at least a 10 percent probability (P10) that the quantities actually recovered will equal or exceed the high estimate.

When using the deterministic scenario method, typically there should also be low, best, and high estimates, where such estimates are based on qualitative assessments of relative uncertainty using consistent interpretation guidelines. Under the deterministic incremental (risk-based) approach, quantities at each level of uncertainty are estimated discretely and separately.

These same approaches to describing uncertainty may be applied to Reserves, Contingent Resources, and Prospective Resources. While there may be significant risk that sub-commercial and undiscovered accumulations will not achieve commercial production, it is useful to consider the range of potentially recoverable quantities independently of such a risk or consideration of the resource class to which the quantities will be assigned.

5.3 Reserves Categories and Status

For Reserves, the general cumulative terms low/best/high estimates are denoted as 1P/2P/3P, respectively. The associated incremental quantities are termed Proved, Probable and Possible. Reserves are a subset of, and must be viewed within context of, the complete resources classification system.

Proved Reserves

Proved Reserves are those quantities of petroleum which, by analysis of geoscience and engineering data, can be estimated with reasonable certainty to be commercially recoverable, from a given date forward, from known reservoirs and under defined economic conditions, operating methods, and government regulations. If deterministic methods are used, the term reasonable certainty is intended to express a high degree of confidence that the quantities will be recovered. If probabilistic methods are used, there should be at least a 90 percent probability that the quantities actually recovered will equal or exceed the estimate.

Probable Reserves

Probable Reserves are those additional Reserves which analysis of geoscience and engineering data indicate are less likely to be recovered than Proved Reserves but more certain to be recovered than Possible Reserves. It is equally likely that actual remaining quantities recovered will be greater than or less than the sum of the estimated Proved plus Probable Reserves (2P). In this context, when probabilistic methods are used, there should be at least a 50 percent probability that the actual quantities recovered will equal or exceed the 2P estimate.

Possible Reserves

Possible Reserves are those additional Reserves which analysis of geoscience and engineering data suggest are less likely to be recoverable than Probable Reserves. The total quantities ultimately recovered from the project have a low probability to exceed the sum of Proved plus Probable plus

Possible (3P) Reserves, which is equivalent to the high estimate scenario. In this context, when probabilistic methods are used, there should be at least a 10% probability that the actual quantities recovered will equal or exceed the 3P estimate.

Reserves status categories define the development and producing status of wells and reservoirs.

Developed Reserves

Developed Reserves are expected quantities to be recovered from existing wells and facilities. Reserves are considered developed only after the necessary equipment has been installed, or when the costs to do so are relatively minor compared to the cost of a well. Where required facilities become unavailable, it may be necessary to reclassify Developed Reserves as Undeveloped. Developed Reserves may be further sub-classified as Producing or Non-Producing.

Developed Producing Reserves

Developed Producing Reserves are expected to be recovered from completion intervals that are open and producing at the time of the estimate. Improved recovery reserves are considered producing only after the improved recovery project is in operation.

Developed Non-producing Reserves

Developed Non-Producing Reserves include shut-in and behind-pipe Reserves. Shut-in Reserves are expected to be recovered from (1) completion intervals which are open at the time of the estimate but which have not yet started producing, (2) wells which were shut-in for market conditions or pipeline connections, or, (3) wells not capable of production for mechanical reasons. Behind-pipe Reserves are expected to be recovered from zones in existing wells, which will require additional completion work or future re-completion prior to start of production.

Undeveloped Reserves

Undeveloped Reserves are expected quantities expected to be recovered through future investments: (1) from new wells on undrilled acreage, (2) from deepening existing wells to a different (but known) reservoir, (3) from infill wells that will increase recovery, or (4) where a relatively large expenditure (e.g. when compared to the cost of drilling a new well) is required to (a) recomplete an existing well or (b) install production or transportation facilities for primary or improved recovery projects.

5.4 Contingent Resource Categories

For Contingent Resources, the general cumulative terms low/best/high estimates are denoted as 1C/2C/3C respectively. No specific terms are defined for incremental quantities within Contingent Resources.

5.5 Prospective Resource Categories

For Prospective Resources, the general cumulative terms low/best/high estimates apply. No specific terms are defined for incremental quantities within Prospective Resources.

6 SOURCE AND QUALITY OF DATA

All of the basic information employed in the preparation of this report was obtained from Tenge JV. McDaniel & Associates personnel visited Tenge JV's office in Almaty and Zhanaozen, Kazakhstan to gather all available technical data and to review geological interpretations with Tenge JV's technical staff.

The data set comprised seismic data, original well data, production data, contractual data and financial data on operating costs, capital costs and crude oil pricing. The 3D seismic acquired in 2002 together with several seismic interpretation reports was provided. Well log data for forty wells that penetrated below zone 18 were provided in digital format. This log data typically comprises gamma ray, spontaneous potential, resistivity and a neutron porosity log. In addition two wells have a sonic log. The logs themselves provide insufficient data to reliably estimate porosity and water saturation and are mainly used as a net sand indicator. However, well TE-235 drilled in 2002 does have a complete set of modern logs.

A Moscow based institute, Central Geophysical Expedition ("CGE") has carried out a full reservoir modeling and petroleum engineering study of the field over the last two years including seismic interpretation, reservoir geocellular modeling and reservoir simulation. The top surfaces for the reservoir horizons generated as part of this study were used as the top structure maps for this evaluation.

A number of other reports were also provided including the 1967, 1968, and 2008 State Reserves Calculations, the 1997 and 2008 Technological Development Schemes and various reports by local institutes and Western consultants.

The data was generally of fair quality, albeit quite old, but generally consistent with the type and quality of information usually available in Kazakhstan.

7 REGIONAL GEOLOGY - SOUTH MANGYSHLAK BASIN

The South Mangyshlak Basin is located entirely within Kazakhstan immediately to the east of the Caspian Sea. The basin is bounded by the Mangyshlak fold-belt to the north and northeast and to the south by the Karabogaz arch where only thin Cretaceous and Tertiary rocks overlie the basement. The western boundary of the South Mangyshlak basin is not clearly defined extending into the central part of the Caspian Sea where its dimensions are unknown. The basin first formed when rifting during late Permian and Triassic times formed grabens which were subsequently filled with a thick sequence of clastic, carbonate and volcanic sediments. Compression and inversion of the area then provided the structures to form the hydrocarbon traps.

The Permo-Triassic system accounts for approximately 50 percent of the sediments in the basin and is overlain unconformably by a platform sequence of Jurassic through Eocene sediments. Lower-Middle Jurassic clastics, commonly enriched by coaly organic matter, occur at the base of this system and contain the principal producing reservoirs within the basin. The section is mainly continental in the lower part and becomes progressively more marine influenced towards the top. Subsequent marine shales and carbonates deposited during a widespread transgression in the Middle Callovian - Kimmeridgian time became the regional seal for the Lower-Middle Jurassic reservoirs.

The hydrocarbon source rocks in the South Mangyshlak Basin have not been geochemically identified but geological data indicates that the principal source rocks are stratigraphically confined to the Upper Olenekian - Middle Triassic syn-rift section which is composed of alternating shales, carbonates and tuffs. The generation of hydrocarbons probably started during the Cretaceous and continued up to the Middle Miocene. Vertical migration was dominant as indicated by the large number of stacked reservoirs in the major fields. There is also some evidence of lateral migration on the basin margins.

8 GEOLOGY OF THE TENGE FIELD

The Tenge field is associated with the Zhetybai tectonic step and is located 10 kilometers south of the giant Uzen field.

The stratigraphic sequence present at the Tenge field consists of Paleozoic rocks, overlain by Triassic, Jurassic and Cretaceous sediments, and capped by Paleogene and younger deposits. The oldest sedimentary rocks in the field are of Paleozoic age. They were penetrated by wells TE-52 and TE-55 and are represented by beds of argillite and coarse sandstone. The Triassic sediments were penetrated by six of the drilled wells with clastic continental rocks of the Induan stage of the Lower Triassic covering the Paleozoic sediments. The thickest section of Triassic in the Tenge field belongs to an alternating sequence of shales and dark pelitomorphic carbonates of Olenekian age. Lower Triassic sediments are overlain by relatively thin Middle Triassic shales. Upper Triassic rocks mostly fill the lower parts of Zhetybai step and were denudated at the Tenge field. Triassic sediments are overlain with a strong angular unconformity by up to 100 meters of Lower Jurassic shales interbedded with some sandstone layers. The Middle Jurassic strata of Aalenian, Bajocian, Bathonian and Callovian stages comprise a thick sequence of up to 800 meters. The section consists of an irregular alternation of sandstones, siltstones and shales. Rocks of terrestrial origin (mainly alluvial facies) predominate in the section but marine interbeds occur in the upper part. The Upper Jurassic interval consists chiefly of shales with beds of marls and limestones and forms the main regional seal for hydrocarbon fields in the underlying clastics. The penetrated Upper Jurassic thickness at the Tenge field is 350 meters. The overlying Cretaceous section is predominantly marine clastic rocks with the exception of the continental Barremian shales and sands. There are carbonate intervals in the Valanginian-Hauterivian and the upper part of the Upper Cretaceous.

The present structural configuration of the Tenge field is a large elongated rather narrow anticline about 20 kilometers long and 3 kilometers wide. It trends from west-north-west to east-south-east and, as with most fields in the Zhetybai-Uzen tectonic zone, has a steep southern and gentle northern flank. The amplitude of the fold on the Bajocian Jurassic Zone 18 is 140 meters. The structure appears to have experienced no major faulting within the Middle Jurassic interval. If minor faults are present they likely do not affect the structural plan of Middle Jurassic reservoirs.

As is common in other hydrocarbon fields of the South Mangyshlak basin the Middle Jurassic stacked reservoirs of Aalenian to Callovian age are the main object of the oil and gas exploration at the Tenge field. The nomenclature of the productive sands was inherited from the nearby Uzen field. There are eleven main reservoir horizons or zones. The uppermost productive zone 13 belongs to the Callovian stage of the Middle Jurassic. Horizons 14 to 17 are associated with the Bathonian stage, 18-22 the Bajocian stage and horizon 23 the Aalenian stage. Zones 13 to 17 are fully gas bearing and have already been developed with production commencing at the start of the 1970s. Zones 18, 21, 22 and 23 are charged with both oil and gas and form the focus of this study. A discussion of each of the productive zones is presented below in more detail.

8.1 Zone 18

Zone 18 is subdivided into three sub units – 18a, 18b and 18c. All of the reservoir rocks in zone 18 are poorly to moderately sorted; they are fine to medium-grained sandstones and siltstones with argillaceous and calcareous cement. Deposition of the Middle Jurassic Bathonian stage sediments occurred in various alluvial plain settings, such as braided rivers, shallow lakes, and swamps.

Sub-unit 18a is represented by a 40 meter thick sequence of sands alternating with shale layers. The thickest reservoir quality sand was observed in wells TE-1, TE-27, TE-101, TE-7, and TE-9, where it reaches 30 meters. A gas oil contact (“GOC”) was interpreted to be at 1,790 m ss based on the test results from wells TE-7, TE-8, TE-12, TE-34, and TE-52. An oil water contact (“OWC”) was interpreted to be 1,802 m ss based on the test results in wells TE-34, TE-11 and TE-12. Consequently the gross oil rim thickness is 12 meters. The gas saturated gross thickness is 40 meters. Porosity and water saturation were estimated to be 17 and 35 percent respectively. From 1980 to 1990, one well (TE-131) was completed as a gas producer on this zone and produced about 9 Bcf, which is approximately two percent of the estimated original gas in place for this zone.

Sub-unit 18b has so far received the greatest oil exploration to date and appears to be the most productive of the oil bearing zones. Eighty six percent of the produced oil from the field to date comes from the 18b in wells TE-6 and TE-52. The sand development within the 18b sub-unit is variable as would be expected in this channelized environment. The greatest and most significant reservoir thickness was penetrated in wells drilled in the western, northern and eastern parts of the field with poorer reservoir quality encountered in wells drilled in the central and southern areas. Based on well test results and production data the GOC was interpreted to be 1,791 m ss and the OWC to be 1,822 m ss. The oil rim gross thickness is 31 meters, the net oil pay reaches up to 20 meters, and the gas saturated gross thickness is 30 meters. Porosity was estimated to be 17.5 percent and water saturation 35 percent.

Sub-unit 18c is interpreted from well test results to have the same contacts as sub-unit 18b and therefore also has a gross oil rim thickness of 31 meters. The 18c sand reservoir thickness varies throughout the field. The best net to gross reservoir values were observed in the western part of the pool (the area around well TE-131). The eastern area around wells TE-24, TE-17, TE-18 also shows an increase in reservoir sand thickness. The maximum net oil pay is estimated to be 18 meters in well TE-131. Porosity and water saturation were estimated to be 17 and 35 percent respectively.

8.2 Zone 21

Zone 21 has been penetrated by twenty five wells and tested in nine wells. As with zone 18, horizon 21 is divided into 3 separate units. Sub-unit 21a is represented by shales except in the most south-eastern area where well TE-24 was drilled. Sub-units 21b and 21c have been combined for the purposes of this work. They are characterized by the presence of predominantly shale rocks and poor sand development with channel bodies of limited lateral continuity. The better reservoir sands were developed in the eastern part of the field where, in the area surrounding wells TE-24, TE-109, TE-128, TE-111, the net reservoir thickness is very significant (45 meters in well TE-24). Lithology changes in the central part of the pool and zone 21 is separated into two sub-pools with different OWCs. Based on well test results and production data from well TE-58 the OWC in the western sub-pool is estimated to be at 2,034 m ss. The eastern sub-pool OWC is estimated to be at 1,986 m ss. The results of the well test on TE-27 also support the existence of a small gas cap with an estimated GOC at 1,935 m ss. Three wells (TE-58, TE-111, and TE-109) have produced 24 Mbbl of oil from horizon 21 with 90 percent of this from well TE-58. Porosity and water saturation for horizon 21 sands were estimated to be 15 and 40 percent respectively.

8.3 Zone 22

Zone 22 subdivides into two sub-units, 22a and 22b. The sandstone development within unit 22a has a clear distribution. A depositional axis of thick amalgamated sandstones is in a north-south belt through the centre of the field. These sandstones can generally either exhibit coarsening or fining upward log signature suggesting both abandoned fluvial channels and point bar deposits. The sandstone units tend to be about 25 to 30 meters thick. The underlying sub-unit 22b has a consistent log profile with the thicker developed sandstones, about 30 meters, deposited over most of the field area. In the eastern part of the field there is a sudden change in lithology with all wells drilled in the area penetrating a shale package of similar thickness. Only well TE-102 tested oil in both the 22a and 22b intervals. Based on test results of wells TE-102, TE-111 and TE-103 the GOC for sub-unit 22a is estimated to be at 2,030 m ss. Based on the lowest known level of oil in well TE-102 the OWC is estimated at a depth of 2,060 m ss. For sub-unit 22b the GOC and OWC are estimated to be at 2,075 m ss and 2,105 m ss respectively. From 1972 to 1980 gas was produced from this zone which may have caused the oil rim to partly migrate into the gas cap. For both sub-units the porosity is estimated to be 14 percent and the water saturation 35 percent.

8.4 Zone 23

Zone 23 has been penetrated by twenty two wells drilled in the Tenge field and is the deepest productive sand within the field. The sediments within the zone are associated with the upper part the Aalenian stage of the Middle Jurassic. The interval is dominated by grey, fine and medium grained sands with subordinate beds of dark-grey shales. The upper part of the zone contains the best reservoir quality sand which is encountered throughout the field and should give very good reservoir connectivity. The maximum gross oil rim thickness was estimated to be 23 meters. The maximum gross gas cap thickness is more than 40 meters. Based on well test results the GOC and OWC were defined to be at 2,140 and 2,163 m ss respectively. As with zone 22 it is not clear if the earlier gas production has affected these original contacts. Well TE-235, drilled on the southern flank of the structure, saw no evidence of the original oil rim when it was drilled in 2002. Porosity for horizon 23 was estimated to be 14 percent and water saturation 35 percent.

8.5 Net Pay Maps and Original Hydrocarbon-in-Place Estimates

Top structure maps for all the horizons were constructed based on the 3D seismic interpreted surfaces together with the correlation of well logs. McDaniel & Associates reviewed the seismic interpretation, which was provided by Tenge JV, and subsequently used it to generate the maps for the intervals of interest. For each horizon gross oil and gas thickness was calculated based on the interpreted GOC and OWC. Net reservoir thickness was interpreted from the log analysis and applied to the gross oil and gas thickness maps. For all zones (with the exception of zone 23) net oil and gas thickness maps were used as the basis for volumetric estimates of the net rock volume. Whilst these maps can be used for this purpose they cannot, due to the sparseness of the data and the channelized nature of the zones, be relied upon for well planning purposes. For zone 23 gross oil and gross gas thickness maps were used together with an average net-to-gross estimate as there is very limited well data especially in the oil section. The top structure and thickness maps for all the zones are presented in Figures 1 to 23 of the Appendix.

These estimates were then combined with the other rock and fluid parameters to determine the original oil and gas in place estimates. Average porosity values were estimated from the well logs and core analysis data. Water saturation values were estimated from selected well logs. A summary of the rock volume, petrophysical parameters and original oil in place, solution gas in place and gas cap gas in place estimates by zone are presented in Tables 6, 7 and 8 respectively of the Appendix. The reservoir and fluid properties are summarized in Table 9 of the Appendix.

9 RESERVES ESTIMATES

The crude oil and natural gas reserves were primarily based on volumetric estimates considering all available data including test data, production data, structural and net pay interpretations, amount and quality of data and economics of development. A number of reservoir simulation studies have been conducted in the past to evaluate the likely recovery that could be obtained from a Tenge field oil rim development. In 2008 Epic Consulting Services Ltd of Calgary undertook a sector modeling study on behalf of McDaniel & Associates to investigate the sensitivity of oil recovery to well spacing and production rate within the oil rims of zones 18b and 18c. These studies combined with analogue data have been used to estimate the ranges of recovery factors used in this evaluation. The reserves were classified into Proved Developed Producing ("PDP"), Proved Undeveloped ("PUD"), Total Proved ("1P"), Proved plus Probable ("2P") and Proved plus Probable plus Possible ("3P") classes as defined in Section 5 of this report. In this evaluation the PUD is the difference between the 1P and PDP.

Gas reserves have been assigned as part of this evaluation as the field is close to gas export pipelines and the gas market in Western Kazakhstan is to some degree established. Proved gas reserves have not been assigned as there is no gas sales contract in place for the zones being evaluated.

For the analysis of reserves, each zone was categorized according to the type of development that would be applicable given the reservoir and fluid characteristics. Zone 18a only has a 12 meter gross oil column, underlain by water and overlain by gas, which is likely too thin for a viable oil rim development. Well tests all show high GORs and fairly low oil rates so it was assumed that zone 18a will be developed as a gas reservoir using vertical wells and that the oil recovery would be very low.

Zones 18b and 18c both have a 31 meter gross oil column, underlain by water and overlain by gas, and development of the oil rims should be viable if horizontal wells are employed. Due to the geometry of these sands, 500 to 1,000 meter horizontal wells could be oriented in a radial direction allowing them to target both intervals in a single well. At the eastern and western ends of the field the horizontal distances between zones appears to be too large to develop both intervals in the same well thus some additional wells will be required. In total it is estimated that 32 horizontal wells will be required to develop the 18b and 18c oil rims.

Zone 21 is divided into an eastern and western part. The western part does not appear to have a gas cap, but is low relief and thin and the development of only a portion of the area is likely to be viable. The eastern part should give better recovery as it is thicker with a gross oil column of up to 51 meters although it does have a small gas cap.

Zones 22 and 23 both initially had oil rims although it is not clear if the gas production (estimated to be 90 Bcf) that has already occurred from these two intervals has negatively impacted the potential recovery from the oil rims. The limited data available suggests the rim on zone 23 may no longer be intact; well TE-235 did not encounter high oil saturations when drilled in what should have been a rim location and well TE-109 tested water while swabbing in 1997 from what should

have been an oil rim location. It may be that there are explanations for the results of these two wells which still allow for an oil rim to be present, however, it was forecast in this evaluation that the future development would focus on the blowdown of the gas caps and that any oil recovery would be very low.

The concept for the reservoirs with a viable oil development (18b, 18c, 21 East and 21 West) was to first develop the oil, re-injecting any produced gas, followed in all cases (except zone 21 West) by a gas cap blowdown. For the reservoirs where it was felt that an oil development was not viable (18a, 22a, 22b and 23) it was assumed that the gas would be developed immediately.

Crude Oil Reserves

A very small quantity of proved producing oil reserves (393 Mbbl) were assigned on the basis of production analysis of the existing four wells, three of which produce from zone 18b and the other which produces from zone 21.

Proved undeveloped oil reserves were only assigned to zones 18b and 18c assuming that roughly half their reservoir area is proved. A development using 16 horizontal wells and 2 new vertical wells was estimated to give a 10 percent recovery for 50 percent of the mapped in place volume.

The 2P oil reserves for zones 18b and 18c assume a development of the full mapped area using 32 horizontal wells and 2 new vertical wells. These producers are assumed to be supported by 10 gas cap injectors (vertical) and 10 water leg injectors (horizontal) giving a recovery factor of 25 percent. The 3P oil reserves are based on the same numbers of wells but with a 25 percent increase in the oil in place and a 30 percent recovery factor.

The 2P oil reserves for zone 21 East are based on a development of the thickest net pay areas, which is assumed to be 50 percent of the oil in place, requiring five producers (horizontal), 2 gas injectors (vertical) and 2 water injectors (vertical) giving a recovery factor of 20 percent. The 3P oil reserves assume the full oil in place can be developed using double the number of wells resulting in a 25 percent recovery factor.

The 2P oil reserves for zone 21 West assume 25 percent of the oil-in-place is developed using 2 new producers (vertical) giving a recovery factor of 15 percent. The 3P oil reserves assume 9 new producers are required to develop the full mapped area with a resulting 20 percent recovery factor.

For the reservoirs where a gas blowdown is assumed to occur immediately a small amount of oil reserves were assigned to the 2P and 3P cases. For interval 18a a 2P and 3P recovery factor of 4 and 10 percent respectively were assumed. For zones 22 and 23 a 2P and 3P recovery factor of 2 and 5 percent respectively were assumed reflecting the fact that the oil rim may not be present in some areas of the field.

Solution Gas Reserves

Solution gas will be recovered during the blowdown phases of each reservoir development. For the oil rim developments the solution gas will be re-injected until the blowdown phase commences. The solution gas recovery factors were estimated to vary between the oil recovery factors and the gas cap gas recovery factors. No proved gas reserves were assigned as there currently are no gas sales contracts in place. A shrinkage factor of 10 percent was applied to convert the raw gas volumes to sales gas volumes.

Gas Cap Gas Reserves

Gas cap gas will be recovered during the blowdown phases of each reservoir development. No proved gas reserves were assigned as there currently are no gas sales contracts in place. The gas cap gas recovery factors are expected to be in line with typical depletion drive gas recovery factors. Reservoirs in the Mangyshlak area do not typically have strong aquifer support and so the recoveries should be relatively high. For calculating 2P reserves a recovery factor of 70 percent was applied to the mapped gas cap gas in place. For calculating 3P reserves a recovery factor of 80 percent was applied to 125 percent of the mapped gas cap gas in place. A shrinkage factor of 10 percent was applied to convert the raw gas volumes to sales gas volumes.

Where possible, wells that were used for gas injection during the oil rim development phase will later be converted to gas producers during the blowdown phase. The 2P case assumes 38 gas producers will be required with 10 coming from the conversion of injectors and 28 new wells. The 3P case assumes 38 gas producers will be required with 12 coming from the conversion of injectors and 26 new wells.

Summaries of the oil, solution gas and gas cap gas reserves by zone are presented in Tables 6, 7 and 8 respectively of the Appendix. These reserves are based on the full life of the field and are prior to the application of the contract expiry cut-off in September 5, 2020. Reservoir and fluid properties are summarized in Table 9 of the Appendix.

Standard industry practice for reserves evaluations in a country that does not have a history of production contract extensions past the contract expiry date (such as Kazakhstan) is to only assign reserves that are forecast to be produced up to the contract expiry date. Those reserves to the end of the contract are presented on a property gross, company gross and company net basis in Table 4.

Table 4 - Reserves to End of Contract, September 5, 2020

| | PDP | PUD | 1P | Probable | 2P | Possible | 3P |
|----------------------------------|-----|-------|-------|----------|---------|----------|---------|
| Crude Oil, Mbbl | | | | | | | |
| Property Gross | 393 | 8,165 | 8,558 | 45,443 | 54,000 | 35,916 | 89,917 |
| Company Gross (2) | 393 | 8,165 | 8,558 | 45,443 | 54,000 | 35,916 | 89,917 |
| Company Net (3) | 369 | 7,620 | 7,989 | 40,539 | 48,529 | 31,267 | 79,796 |
| Natural Gas, MMcf | | | | | | | |
| Property Gross | - | - | - | 209,267 | 209,267 | 126,047 | 335,313 |
| Company Gross (2) | - | - | - | 209,267 | 209,267 | 126,047 | 335,313 |
| Company Net (3) | - | - | - | 188,340 | 188,340 | 113,442 | 301,782 |
| Barrels of Oil Equiv. (4) | | | | | | | |
| Property Gross | 393 | 8,165 | 8,558 | 80,320 | 88,878 | 56,924 | 145,802 |
| Company Gross (2) | 393 | 8,165 | 8,558 | 80,320 | 88,878 | 56,924 | 145,802 |
| Company Net (3) | 369 | 7,620 | 7,989 | 71,929 | 79,919 | 50,174 | 130,093 |

- (1) Reserves at March 31, 2011 are estimated to the end of the current contract (September 5, 2020).
(2) Gross reserves include Tenge JV's 100 percent working interest reserves before deductions of royalty.
(3) Net reserves include gross reserves after deduction of royalty.
(4) Based on a conversion of 6 thousand cubic feet of natural gas equal to 1 barrel of oil equivalent.

Tenge believes that it will be possible to negotiate a contract extension past 2020 to allow all the oil and gas to be recovered. The reserves expected to be produced to the end of the field life are also presented in Table 5 for illustrative purposes.

Table 5 - Reserves to End of Field Life – Presented for Illustrative Purposes Only

| | PDP | PUD | 1P | Probable | 2P | Possible | 3P |
|---------------------------------|-----|-------|-------|----------|---------|----------|---------|
| Crude Oil, Mbbl (1) | | | | | | | |
| Property Gross | 393 | 8,217 | 8,610 | 49,808 | 58,418 | 47,781 | 106,199 |
| Company Gross (2) | 393 | 8,217 | 8,610 | 49,808 | 58,418 | 47,781 | 106,199 |
| Company Net (3) | 369 | 7,669 | 8,038 | 44,537 | 52,575 | 41,985 | 94,560 |
| Natural Gas, MMcf (1) | | | | | | | |
| Property Gross | - | - | - | 545,501 | 545,501 | 292,776 | 838,277 |
| Company Gross (2) | - | - | - | 545,501 | 545,501 | 292,776 | 838,277 |
| Company Net (3) | - | - | - | 490,951 | 490,951 | 263,498 | 754,449 |
| Barrels of Oil Equiv.(4) | | | | | | | |
| Property Gross | 393 | 8,217 | 8,610 | 140,725 | 149,335 | 96,577 | 245,912 |
| Company Gross (2) | 393 | 8,217 | 8,610 | 140,725 | 149,335 | 96,577 | 245,912 |
| Company Net (3) | 369 | 7,669 | 8,038 | 126,363 | 134,400 | 85,901 | 220,302 |

- (1) Reserves at March 31, 2011 are estimated to the end of the field life
(2) Gross reserves include Tenge JV's 100 percent working interest reserves before deductions of royalty.
(3) Net reserves include gross reserves after deduction of royalty.
(4) Based on a conversion of 6 thousand cubic feet of natural gas equal to 1 barrel of oil equivalent.

10 PRICE FORECASTS

The net present value estimates were based on the McDaniel & Associates December 31, 2010 price forecast. The crude oil export price is based on the forecast Brent crude oil price less an estimate of the price differential between the Brent reference price and the field price. This differential includes the cost of crude processing, transporting the crude from the field to the point of sale and all other related commercial costs to market the oil. Based on the oil sales information for 2010 the total price differential has averaged \$18.50/bbl during the year and this has been used

for forecasting oil price. There are specific clauses within the Tenge sub-soil contract that allow for 100 percent crude oil export. Tenge JV is currently exporting all the oil it produces and 100 percent future export has been assumed.

Natural gas prices are based on the published gas prices paid by Gazprom in the region. These have been indirectly linked to European gas prices which in turn track the Brent crude oil price to allow for future price changes.

A summary of the reference crude oil and natural gas price forecasts are presented in Table 11 of the Appendix.

11 NET PRESENT VALUES

The net present values of the crude oil and natural gas reserves were based on future production and revenue analyses. Estimates are provided both to the current contract expiry date of September 5, 2020 (Table 6) and for illustrative purposes to the end of the field life (Table 7). All of the net present value estimates presented in this report were presented in US dollars and include an allowance for Kazakhstan taxes.

The future production forecasts were based on detailed calculations including allowances for future drilling or recompletions. Tenge JV believes it will be possible to have a maximum of six rigs working in the Tenge field each drilling up to eight vertical or five horizontal wells per year. In 2011 it is planned to drill four vertical wells to appraise the zone 18b, 18c and 21 oil rims. Three of these vertical wells will later be replaced by horizontal wells at which point they will be converted to gas producers on zone 18a. Whilst facilities are being constructed any associated gas produced will be supplied free of charge to the Kazakh Gas Processing Plant (subsidiary of UzenMunaiGaz).

Future crude oil revenue was derived by employing the forecast production and the forecast crude oil price discussed in Section 10. An allowance for customs export duty (re-introduced at the beginning of 2011), mineral extraction and export rent taxes and income taxes were made according to the terms of the contract. Current unit operating costs are very high because of the very low production levels. Future operating costs are based on our experience with analogous oil and gas projects. Drilling costs are based on budget estimates provided by Tenge JV which indicates a vertical well will cost \$3.4 million and a horizontal well will cost \$5.5 million. Tenge JV provided some preliminary facility cost estimates from two local design institutes for a small scale production facility which were used to benchmark our estimates of the likely facility costs. An allowance was also made for well abandonment costs at the end of each respective forecast.

Table 1 of the Appendix presents a summary of the reserves and net present values to the end of the contract. Tables 2 to 5 of the Appendix present the revenue forecasts to the end of the contract for each reserves category. For illustrative purposes only, the same information to the end of the field life is presented in Tables 13 to 17 of the Appendix. (The small amount of associated gas produced whilst facilities are being built is excluded from the reserves presented in these tables as no revenue is derived).

Table 10 of the Appendix provides a summary of the economic parameters and Table 12 of the Appendix provides a breakdown of the capital costs.

Table 6 - Net Present Values to End of Contract, September 5, 2020

| | Net Present Values at December 31, 2010 (1) (US\$1000) | | | | |
|---|---|-----------|------------|------------|------------|
| | Discounted At | | | | |
| | 0% | 5% | 10% | 15% | 20% |
| Before Income Taxes (2) (3) | | | | | |
| Proved Producing Reserves | 14,384 | 12,132 | 10,432 | 9,119 | 8,084 |
| Proved Undeveloped Reserves | 174,804 | 125,761 | 90,510 | 64,745 | 45,639 |
| Total Proved Reserves | 189,188 | 137,893 | 100,943 | 73,865 | 53,724 |
| Probable Reserves | 2,054,269 | 1,505,937 | 1,123,342 | 850,304 | 651,505 |
| Total Proved + Probable Reserves | 2,243,457 | 1,643,831 | 1,224,284 | 924,169 | 705,229 |
| Possible Reserves | 1,789,182 | 1,306,476 | 971,573 | 733,989 | 562,051 |
| Total Proved + Probable + Possible Reserves | 4,032,639 | 2,950,306 | 2,195,857 | 1,658,158 | 1,267,280 |
| After Income Taxes (2) (3) | | | | | |
| Proved Producing Reserves | 13,844 | 11,673 | 10,035 | 8,769 | 7,771 |
| Proved Undeveloped Reserves | 122,530 | 83,972 | 56,596 | 36,852 | 22,426 |
| Total Proved Reserves | 136,374 | 95,645 | 66,630 | 45,621 | 30,196 |
| Probable Reserves | 1,252,495 | 899,356 | 654,424 | 480,834 | 355,437 |
| Total Proved + Probable Reserves | 1,388,868 | 995,002 | 721,054 | 526,455 | 385,633 |
| Possible Reserves | 1,048,917 | 760,670 | 560,400 | 418,244 | 315,393 |
| Total Proved + Probable + Possible Reserves | 2,437,785 | 1,755,671 | 1,281,454 | 944,699 | 701,026 |

- (1) Net present values are estimated to the end of the current contract (September 5, 2020).
(2) The net present values may not necessarily represent the fair market value of the reserves.
(3) The value of all wells and facilities are included in the net present value estimates

Table 7 - Net Present Values to End of Field Life – Presented for Illustrative Purposes Only

| | Net Present Values at December 31, 2010 (1) (US\$1000) | | | | |
|---|---|-----------|------------|------------|------------|
| | Discounted At | | | | |
| | 0% | 5% | 10% | 15% | 20% |
| Before Income Taxes (2) (3) | | | | | |
| Proved Producing Reserves | 14,384 | 12,132 | 10,432 | 9,119 | 8,084 |
| Proved Undeveloped Reserves | 175,674 | 126,309 | 90,862 | 64,976 | 45,793 |
| Total Proved Reserves | 190,058 | 138,441 | 101,294 | 74,095 | 53,878 |
| Probable Reserves | 3,958,104 | 2,414,494 | 1,586,099 | 1,099,452 | 792,141 |
| Total Proved + Probable Reserves | 4,148,163 | 2,552,935 | 1,687,394 | 1,173,547 | 846,018 |
| Possible Reserves | 3,084,566 | 1,980,115 | 1,339,360 | 943,199 | 685,314 |
| Total Proved + Probable + Possible Reserves | 7,232,729 | 4,533,050 | 3,026,754 | 2,116,746 | 1,531,332 |
| After Income Taxes (2) (3) | | | | | |
| Proved Producing Reserves | 13,844 | 11,673 | 10,035 | 8,769 | 7,771 |
| Proved Undeveloped Reserves | 123,148 | 84,361 | 56,846 | 37,016 | 22,535 |
| Total Proved Reserves | 136,991 | 96,034 | 66,880 | 45,785 | 30,306 |
| Probable Reserves | 2,098,719 | 1,318,998 | 876,054 | 604,181 | 427,156 |
| Total Proved + Probable Reserves | 2,235,710 | 1,415,032 | 942,934 | 649,966 | 457,462 |
| Possible Reserves | 1,779,980 | 1,146,909 | 773,558 | 540,367 | 387,677 |
| Total Proved + Probable + Possible Reserves | 4,015,690 | 2,561,941 | 1,716,492 | 1,190,333 | 845,139 |

- (1) Net present values are estimated to the end of the field life.
(2) The net present values may not necessarily represent the fair market value of the reserves.
(3) The value of all wells and facilities are included in the net present value estimates

12 PROFESSIONAL QUALIFICATIONS

McDaniel & Associates Consultants Ltd. has over 50 years of experience in the evaluation of oil and gas properties. McDaniel & Associates Consultants Ltd. is registered with the Association of Professional Engineers, Geologists and Geophysicists of Alberta (APEGGA). All of the professionals involved in the preparation of this report have in excess of 5 years of experience in the evaluation of oil and gas properties. Mr. Bryan Emslie, Senior Vice President, Mr. Paul Taylor, Senior Petroleum Engineer and Mr. Anatoli Tchernavskikh, Manager International Geology, all with McDaniel & Associates Consultants Ltd., were responsible for the preparation of this report. Mr. Emslie has over 30 years of experience in the evaluation of oil and gas properties, Mr. Taylor have over 20 years of experience and Mr. Anatoli Tchernavskikh has in excess of 19 years. All of the persons involved in the preparation of this report and McDaniel & Associates Consultants Ltd. are independent of Tenge JV.

In preparing this report, we relied upon factual information including ownership, technical well and seismic data, contracts, and other relevant data supplied by Tenge JV. The extent and character of all factual information supplied were relied upon by us in preparing this report and has been accepted as represented without independent verification. We have relied upon representations made by Tenge JV as to the completeness and accuracy of the data provided and that all data proved to us was lawfully acquired.

This report was prepared by McDaniel & Associates Consultants Ltd. for the exclusive use of Tenge JV. Tenge JV agrees not to use the report in securities transactions without the prior written consent of McDaniel & Associates Consultants Ltd., which McDaniel & Associates Consultants Ltd. shall not unreasonably withhold. We reserve the right to revise any opinions provided herein if any relevant data existing prior to preparation of this report was not made available or if any data provided is found to be erroneous.

Sincerely,

McDANIEL & ASSOCIATES CONSULTANTS LTD.
APEGGA PERMIT NUMBER: P3145



B. H. Emslie, P. Eng.
Senior Vice President



P. M. Taylor, MEI CEng
Associate



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[11-0073]

Tenge JV

Table 1

**Tenge Field - Kazakhstan - Competent Person's Report
Summary of Reserves and Net Present Values to End of Contract
Effective December 31, 2010**

Summary of Reserves (1)

| <u>Reserve Category</u> | <u>Crude Oil Reserves - bbls</u> | | | <u>Crude Oil Reserves - Tonnes</u> | | |
|---|----------------------------------|---------|---------|------------------------------------|---------|---------|
| | Property | Company | Company | Property | Company | Company |
| | Gross | Gross | Net | Gross | Gross | Net |
| | Mbbl | Mbbl | Mbbl | MT | MT | MT |
| Proved Developed Producing Reserves | 393 | 393 | 369 | 53 | 53 | 50 |
| Proved Undeveloped Reserves | 8,165 | 8,165 | 7,620 | 1,102 | 1,102 | 1,029 |
| Total Proved Reserves | 8,558 | 8,558 | 7,989 | 1,155 | 1,155 | 1,078 |
| Probable Reserves | 45,443 | 45,443 | 40,539 | 6,136 | 6,136 | 5,474 |
| Proved Plus Probable Reserves | 54,000 | 54,000 | 48,529 | 7,291 | 7,291 | 6,552 |
| Possible Reserves | 35,916 | 35,916 | 31,267 | 4,853 | 4,853 | 4,225 |
| Proved Plus Probable Plus Possible Reserves | 89,917 | 89,917 | 79,796 | 12,144 | 12,144 | 10,777 |

| <u>Reserve Category</u> | <u>Natural Gas Reserves - scf</u> | | | <u>Barrels of Oil Equivalent</u> | | |
|---|-----------------------------------|---------|---------|----------------------------------|---------|---------|
| | Property | Company | Company | Property | Company | Company |
| | Gross | Gross | Net | Gross | Gross | Net |
| | MMcf | MMcf | MMcf | Mboe | Mboe | Mboe |
| Proved Developed Producing Reserves | - | - | - | 393 | 393 | 369 |
| Proved Undeveloped Reserves | - | - | - | 8,165 | 8,165 | 7,620 |
| Total Proved Reserves | - | - | - | 8,558 | 8,558 | 7,989 |
| Probable Reserves | 209,267 | 209,267 | 188,340 | 80,320 | 80,320 | 71,929 |
| Proved Plus Probable Reserves | 209,267 | 209,267 | 188,340 | 88,878 | 88,878 | 79,919 |
| Possible Reserves | 126,047 | 126,047 | 113,442 | 56,924 | 56,924 | 50,174 |
| Proved Plus Probable Plus Possible Reserves | 335,313 | 335,313 | 301,782 | 145,802 | 145,802 | 130,093 |

Summary of Company Share of Net Present Values Before Income Taxes

| <u>Reserve Category</u> | <u>\$M US Dollars</u> | | | | |
|---|-----------------------|-----------|-----------|-----------|-----------|
| | 0.0% | 5.0% | 10.0% | 15.0% | 20.0% |
| Proved Developed Producing Reserves | 14,384 | 12,132 | 10,432 | 9,119 | 8,084 |
| Proved Undeveloped Reserves | 174,804 | 125,761 | 90,510 | 64,745 | 45,639 |
| Total Proved Reserves | 189,188 | 137,893 | 100,943 | 73,865 | 53,724 |
| Probable Reserves | 2,054,269 | 1,505,937 | 1,123,342 | 850,304 | 651,505 |
| Proved Plus Probable Reserves | 2,243,457 | 1,643,831 | 1,224,284 | 924,169 | 705,229 |
| Possible Reserves | 1,789,182 | 1,306,476 | 971,573 | 733,989 | 562,051 |
| Proved Plus Probable Plus Possible Reserves | 4,032,639 | 2,950,306 | 2,195,857 | 1,658,158 | 1,267,280 |

Summary of Company Share of Net Present Values After Income Taxes

| <u>Reserve Category</u> | <u>\$M US Dollars</u> | | | | |
|---|-----------------------|-----------|-----------|---------|---------|
| | 0.0% | 5.0% | 10.0% | 15.0% | 20.0% |
| Proved Developed Producing Reserves | 13,844 | 11,673 | 10,035 | 8,769 | 7,771 |
| Proved Undeveloped Reserves | 122,530 | 83,972 | 56,596 | 36,852 | 22,426 |
| Total Proved Reserves | 136,374 | 95,645 | 66,630 | 45,621 | 30,196 |
| Probable Reserves | 1,252,495 | 899,356 | 654,424 | 480,834 | 355,437 |
| Proved Plus Probable Reserves | 1,388,868 | 995,002 | 721,054 | 526,455 | 385,633 |
| Possible Reserves | 1,048,917 | 760,670 | 560,400 | 418,244 | 315,393 |
| Proved Plus Probable Plus Possible Reserves | 2,437,785 | 1,755,671 | 1,281,454 | 944,699 | 701,026 |

(1) Company Gross reserves are based on Company working interest share of the reserves.

Company Net reserves are based on Company working interest share of reserves after royalties.

Tenge JV

Table 2

**Tenge Field - Kazakhstan - Competent Person's Report
Forecast of Production and Revenues to End of Contract
Proved Developed Producing Reserves
Effective December 31, 2010**

Property Gross Share of Production and Gross Revenues

| Year | Producing Well Count | Crude Oil | | | | | Natural Gas | | | | Total Oil&Gas BOE Mbbl | Total Sales Revenue US\$M |
|-------|----------------------|-----------------|--------------------|------------------|--------------------------|---------------------|------------------|--------------------|------------------------|---------------------|------------------------|---------------------------|
| | | Daily Rate Bopd | Annual Volume Mbbl | Annual Volume MT | Crude Oil Price US\$/bbl | Sales Revenue US\$M | Daily Rate Mcf/d | Annual Volume MMcf | Nat Gas Price US\$/Mcf | Sales Revenue US\$M | | |
| 2011 | 4 | 218 | 80 | 11 | 66.50 | 5,295 | - | - | - | - | 80 | 5,295 |
| 2012 | 4 | 183 | 67 | 9 | 68.33 | 4,566 | - | - | - | - | 67 | 4,566 |
| 2013 | 4 | 154 | 56 | 8 | 70.25 | 3,939 | - | - | - | - | 56 | 3,939 |
| 2014 | 4 | 129 | 47 | 6 | 72.67 | 3,419 | - | - | - | - | 47 | 3,419 |
| 2015 | 4 | 108 | 39 | 5 | 75.18 | 2,968 | - | - | - | - | 39 | 2,968 |
| 2016 | 4 | 91 | 33 | 4 | 77.87 | 2,579 | - | - | - | - | 33 | 2,579 |
| 2017 | 4 | 76 | 28 | 4 | 79.47 | 2,209 | - | - | - | - | 28 | 2,209 |
| 2018 | 4 | 64 | 23 | 3 | 81.05 | 1,890 | - | - | - | - | 23 | 1,890 |
| 2019 | 3 | 54 | 20 | 3 | 82.52 | 1,615 | - | - | - | - | 20 | 1,615 |
| 2020 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2021 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2022 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2023 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2024 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2025 | - | - | - | - | - | - | - | - | - | - | - | - |
| Rem. | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | | | 393 | 53 | - | 28,479 | | - | - | - | 393 | 28,479 |

Property Gross Share of Royalties, Expenses and Net Revenues Before and After Tax

| Year | Customs Duty US\$M | M.E.T. US\$M | M.E.T. % | Export Rent Tax US\$M | Operating Costs US\$M | Operating Costs US\$/boe | Aband. Costs US\$M | Capital Costs US\$M | Net Cash Flow B. Tax US\$M | Property & Corp. Tax US\$M | Excess Profit Tax US\$M | Net Cash Flow A. Tax US\$M |
|-------|--------------------|--------------|----------|-----------------------|-----------------------|--------------------------|--------------------|---------------------|----------------------------|----------------------------|-------------------------|----------------------------|
| 2011 | 430 | 265 | 5.0 | 900 | 1,633 | 20.51 | - | 40 | 2,028 | 103 | - | 1,924 |
| 2012 | 361 | 228 | 5.0 | 776 | 846 | 12.66 | - | 41 | 2,313 | 88 | - | 2,225 |
| 2013 | 303 | 236 | 6.0 | 670 | 316 | 5.64 | - | 42 | 2,372 | 76 | - | 2,297 |
| 2014 | 254 | 239 | 7.0 | 650 | 313 | 6.66 | - | 42 | 1,920 | 65 | - | 1,856 |
| 2015 | 213 | 208 | 7.0 | 564 | 311 | 7.88 | - | 43 | 1,628 | 56 | - | 1,573 |
| 2016 | 179 | 181 | 7.0 | 490 | 310 | 9.37 | - | 44 | 1,375 | 48 | - | 1,328 |
| 2017 | 150 | 155 | 7.0 | 464 | 280 | 10.08 | - | - | 1,160 | 41 | - | 1,119 |
| 2018 | 126 | 132 | 7.0 | 397 | 250 | 10.74 | - | - | 985 | 35 | - | 950 |
| 2019 | 106 | 113 | 7.0 | 339 | 221 | 11.28 | 234 | - | 602 | 30 | - | 572 |
| 2020 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2021 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2022 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2023 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2024 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2025 | - | - | - | - | - | - | - | - | - | - | - | - |
| Rem. | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | 2,120 | 1,757 | 6.2 | 5,249 | 4,481 | 11.41 | 234 | 252 | 14,384 | 541 | - | 13,844 |

Company Working Interest Share of Production and Revenues Before and After tax

| Year | Gross Annual Production Mboe | Net Annual Production Mboe | Total Sales Revenue US\$M | M.E.T. & Export Duty & Rent Tax US\$M | Operating Costs US\$M | Capital & Aband. Costs US\$M | Net Cash Flow B. Tax US\$M | Property & Corp. Tax US\$M | Excess Profit Tax US\$M | Net Cash Flow A. Tax US\$M | Cum Cash Flow A.T. US\$M | NPV A.T. at 10.0% US\$M |
|-------|------------------------------|----------------------------|---------------------------|---------------------------------------|-----------------------|------------------------------|----------------------------|----------------------------|-------------------------|----------------------------|--------------------------|-------------------------|
| 2011 | 80 | 76 | 5,295 | 1,595 | 1,633 | 40 | 2,028 | 103 | - | 1,924 | 1,924 | 1,835 |
| 2012 | 67 | 63 | 4,566 | 1,365 | 846 | 41 | 2,313 | 88 | - | 2,225 | 4,150 | 1,929 |
| 2013 | 56 | 53 | 3,939 | 1,209 | 316 | 42 | 2,372 | 76 | - | 2,297 | 6,446 | 1,810 |
| 2014 | 47 | 44 | 3,419 | 1,143 | 313 | 42 | 1,920 | 65 | - | 1,856 | 8,302 | 1,329 |
| 2015 | 39 | 37 | 2,968 | 985 | 311 | 43 | 1,628 | 56 | - | 1,573 | 9,875 | 1,024 |
| 2016 | 33 | 31 | 2,579 | 849 | 310 | 44 | 1,375 | 48 | - | 1,328 | 11,202 | 786 |
| 2017 | 28 | 26 | 2,209 | 768 | 280 | - | 1,160 | 41 | - | 1,119 | 12,321 | 602 |
| 2018 | 23 | 22 | 1,890 | 655 | 250 | - | 985 | 35 | - | 950 | 13,271 | 465 |
| 2019 | 20 | 18 | 1,615 | 558 | 221 | 234 | 602 | 30 | - | 572 | 13,844 | 255 |
| 2020 | - | - | - | - | - | - | - | - | - | - | 13,844 | - |
| 2021 | - | - | - | - | - | - | - | - | - | - | 13,844 | - |
| 2022 | - | - | - | - | - | - | - | - | - | - | 13,844 | - |
| 2023 | - | - | - | - | - | - | - | - | - | - | 13,844 | - |
| 2024 | - | - | - | - | - | - | - | - | - | - | 13,844 | - |
| 2025 | - | - | - | - | - | - | - | - | - | - | 13,844 | - |
| Rem. | - | - | - | - | - | - | - | - | - | - | 13,844 | - |
| Total | 393 | 369 | 28,479 | 9,127 | 4,481 | 487 | 14,384 | 541 | - | 13,844 | | 10,035 |

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Table 3

**Tenge Field - Kazakhstan - Competent Person's Report
Forecast of Production and Revenues to End of Contract
Total Proved Reserves
Effective December 31, 2010**

Property Gross Share of Production and Gross Revenues

| Property Gross Share of Production and Gross Revenue | | | | | | | | | | | | |
|--|-----------|-----------|--------|--------|-----------|---------|-------------|--------|----------|---------|---------|---------|
| | | Crude Oil | | | | | Natural Gas | | | | Total | Total |
| | Producing | Daily | Annual | Annual | Crude | Sales | Daily | Annual | Nat Gas | Sales | Oil&Gas | Total |
| | Well | Rate | Volume | Volume | Oil Price | Revenue | Rate | Volume | Price | Revenue | BOE | Sales |
| Year | Count | Bopd | Mbbl | MT | US\$/bbl | US\$M | Mcfpd | MMcf | US\$/Mcf | US\$M | Mbbl | Revenue |
| 2011 | 5 | 328 | 120 | 16 | 66.50 | 7,965 | - | - | - | - | 120 | 7,965 |
| 2012 | 10 | 1,800 | 657 | 89 | 68.33 | 44,898 | - | - | - | - | 657 | 44,898 |
| 2013 | 16 | 4,112 | 1,501 | 203 | 70.25 | 105,432 | - | - | - | - | 1,501 | 105,432 |
| 2014 | 20 | 4,951 | 1,807 | 244 | 72.67 | 131,312 | - | - | - | - | 1,807 | 131,312 |
| 2015 | 20 | 4,453 | 1,625 | 219 | 75.18 | 122,188 | - | - | - | - | 1,625 | 122,188 |
| 2016 | 20 | 3,055 | 1,115 | 151 | 77.87 | 86,835 | - | - | - | - | 1,115 | 86,835 |
| 2017 | 20 | 2,101 | 767 | 104 | 79.47 | 60,937 | - | - | - | - | 767 | 60,937 |
| 2018 | 19 | 1,449 | 529 | 71 | 81.05 | 42,874 | - | - | - | - | 529 | 42,874 |
| 2019 | 18 | 910 | 332 | 45 | 82.52 | 27,409 | - | - | - | - | 332 | 27,409 |
| 2020 | 17 | 287 | 105 | 14 | 84.29 | 8,830 | - | - | - | - | 105 | 8,830 |
| 2021 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2022 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2023 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2024 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2025 | - | - | - | - | - | - | - | - | - | - | - | - |
| Rem. | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | | | 8,558 | 1,155 | - | 638,679 | | - | - | - | 8,558 | 638,679 |

Property Gross Share of Royalties, Expenses and Net Revenues Before and After Tax

| Year | Customs Duty US\$M | M.E.T. US\$M | M.E.T. % | Export Rent Tax US\$M | Operating Costs US\$M | Operating Costs US\$/boe | Aband. Costs US\$M | Capital Costs US\$M | Net Cash Flow B. Tax US\$M | Property & Corp. Tax US\$M | Excess Profit Tax US\$M | Net Cash Flow A. Tax US\$M |
|-------|--------------------|--------------|----------|-----------------------|-----------------------|--------------------------|--------------------|---------------------|----------------------------|----------------------------|-------------------------|----------------------------|
| 2011 | 647 | 398 | 5.0 | 1,354 | 2,039 | 17.03 | - | 12,602 | (9,075) | 183 | - | (9,259) |
| 2012 | 3,548 | 2,245 | 5.0 | 7,633 | 4,836 | 7.36 | - | 71,375 | (44,738) | 691 | - | (45,429) |
| 2013 | 8,103 | 6,326 | 6.0 | 17,923 | 8,261 | 5.50 | - | 66,360 | (1,541) | 3,868 | - | (5,409) |
| 2014 | 9,756 | 9,192 | 7.0 | 24,949 | 9,697 | 5.37 | - | 23,559 | 54,159 | 9,968 | 5,247 | 38,944 |
| 2015 | 8,776 | 8,553 | 7.0 | 23,216 | 9,399 | 5.78 | - | 216 | 72,027 | 9,524 | 5,750 | 56,754 |
| 2016 | 6,020 | 6,078 | 7.0 | 16,499 | 8,179 | 7.33 | - | 221 | 49,838 | 6,391 | 2,611 | 40,837 |
| 2017 | 4,140 | 4,266 | 7.0 | 12,797 | 7,362 | 9.60 | - | 225 | 32,148 | 3,903 | 476 | 27,768 |
| 2018 | 2,856 | 3,001 | 7.0 | 9,003 | 6,196 | 11.71 | - | - | 21,817 | 2,464 | - | 19,353 |
| 2019 | 1,793 | 1,919 | 7.0 | 5,756 | 5,128 | 15.44 | - | - | 12,813 | 1,234 | - | 11,579 |
| 2020 | 566 | 618 | 7.0 | 1,854 | 2,737 | 26.13 | 1,315 | - | 1,740 | 505 | - | 1,235 |
| 2021 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2022 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2023 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2024 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2025 | - | - | - | - | - | - | - | - | - | - | - | - |
| Rem. | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | 46,205 | 42,596 | 6.7 | 120,984 | 63,833 | 7.46 | 1,315 | 174,558 | 189,188 | 38,730 | 14,084 | 136,374 |

Company Working Interest Share of Production and Revenues Before and After tax

| Year | Gross Annual Production Mboe | Net Annual Production Mboe | Total Sales Revenue US\$M | M.E.T. & Export Duty & Rent Tax US\$M | Operating Costs US\$M | Capital & Aband. Costs US\$M | Net Cash Flow B. Tax US\$M | Property & Corp. Tax US\$M | Excess Profit Tax US\$M | Net Cash Flow A. Tax US\$M | Cum Cash Flow A.T. US\$M | NPV A.T. at 10.0% US\$M |
|-------|------------------------------|----------------------------|---------------------------|---------------------------------------|-----------------------|------------------------------|----------------------------|----------------------------|-------------------------|----------------------------|--------------------------|-------------------------|
| 2011 | 120 | 114 | 7,965 | 2,399 | 2,039 | 12,602 | (9,075) | 183 | - | (9,259) | (9,259) | (8,828) |
| 2012 | 657 | 624 | 44,898 | 13,425 | 4,836 | 71,375 | (44,738) | 691 | - | (45,429) | (54,688) | (39,377) |
| 2013 | 1,501 | 1,411 | 105,432 | 32,352 | 8,261 | 66,360 | (1,541) | 3,868 | - | (5,409) | (60,097) | (4,262) |
| 2014 | 1,807 | 1,681 | 131,312 | 43,897 | 9,697 | 23,559 | 54,159 | 9,968 | 5,247 | 38,944 | (21,153) | 27,897 |
| 2015 | 1,625 | 1,512 | 122,188 | 40,544 | 9,399 | 216 | 72,027 | 9,524 | 5,750 | 56,754 | 35,601 | 36,960 |
| 2016 | 1,115 | 1,037 | 86,835 | 28,597 | 8,179 | 221 | 49,838 | 6,391 | 2,611 | 40,837 | 76,438 | 24,176 |
| 2017 | 767 | 713 | 60,937 | 21,203 | 7,362 | 225 | 32,148 | 3,903 | 476 | 27,768 | 104,206 | 14,945 |
| 2018 | 529 | 492 | 42,874 | 14,861 | 6,196 | - | 21,817 | 2,464 | - | 19,353 | 123,559 | 9,469 |
| 2019 | 332 | 309 | 27,409 | 9,468 | 5,128 | - | 12,813 | 1,234 | - | 11,579 | 135,138 | 5,150 |
| 2020 | 105 | 97 | 8,830 | 3,038 | 2,737 | 1,315 | 1,740 | 505 | - | 1,235 | 136,374 | 500 |
| 2021 | - | - | - | - | - | - | - | - | - | - | 136,374 | - |
| 2022 | - | - | - | - | - | - | - | - | - | - | 136,374 | - |
| 2023 | - | - | - | - | - | - | - | - | - | - | 136,374 | - |
| 2024 | - | - | - | - | - | - | - | - | - | - | 136,374 | - |
| 2025 | - | - | - | - | - | - | - | - | - | - | 136,374 | - |
| Rem. | - | - | - | - | - | - | - | - | - | - | 136,374 | - |
| Total | 8,558 | 7,989 | 638,679 | 209,785 | 63,833 | 175,873 | 189,188 | 38,730 | 14,084 | 136,374 | | 66,630 |

Tenge JV

Table 4

**Tenge Field - Kazakhstan - Competent Person's Report
Forecast of Production and Revenues to End of Contract
Total Proved + Probable Reserves
Effective December 31, 2010**

Property Gross Share of Production and Gross Revenues

| Year | Producing Well Count | Crude Oil | | | | | Natural Gas | | | | Total Oil&Gas BOE Mbbbl | Total Sales Revenue US\$M |
|-------|----------------------|-----------------|---------------------|------------------|--------------------------|---------------------|------------------|--------------------|------------------------|---------------------|-------------------------|---------------------------|
| | | Daily Rate Bopd | Annual Volume Mbbbl | Annual Volume MT | Crude Oil Price US\$/bbl | Sales Revenue US\$M | Daily Rate Mcf/d | Annual Volume MMcf | Nat Gas Price US\$/Mcf | Sales Revenue US\$M | | |
| 2011 | 6 | 416 | 152 | 20 | 66.50 | 10,089 | - | - | - | - | 152 | 10,089 |
| 2012 | 13 | 5,075 | 1,852 | 250 | 68.33 | 126,578 | - | - | - | - | 1,852 | 126,578 |
| 2013 | 38 | 17,074 | 6,232 | 841 | 70.25 | 437,825 | 40,000 | 14,600 | 3.32 | 48,446 | 8,665 | 486,272 |
| 2014 | 61 | 27,606 | 10,076 | 1,360 | 72.67 | 732,209 | 80,000 | 29,200 | 3.74 | 109,186 | 14,943 | 841,395 |
| 2015 | 72 | 28,868 | 10,537 | 1,423 | 75.18 | 792,094 | 80,000 | 29,200 | 4.14 | 120,838 | 15,403 | 912,932 |
| 2016 | 73 | 22,925 | 8,368 | 1,130 | 77.87 | 651,633 | 80,000 | 29,200 | 4.54 | 132,493 | 13,234 | 784,126 |
| 2017 | 71 | 17,467 | 6,375 | 861 | 79.47 | 506,628 | 80,000 | 29,200 | 4.81 | 140,407 | 11,242 | 647,035 |
| 2018 | 74 | 13,329 | 4,865 | 657 | 81.05 | 394,304 | 80,000 | 29,200 | 5.06 | 147,840 | 9,732 | 542,144 |
| 2019 | 77 | 10,058 | 3,671 | 496 | 82.52 | 302,950 | 80,000 | 29,200 | 5.30 | 154,834 | 8,538 | 457,784 |
| 2020 | 75 | 5,129 | 1,872 | 253 | 84.29 | 157,804 | 53,333 | 19,467 | 5.53 | 107,608 | 5,117 | 265,413 |
| 2021 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2022 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2023 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2024 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2025 | - | - | - | - | - | - | - | - | - | - | - | - |
| Rem. | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | | | 54,000 | 7,291 | - | 4,112,115 | | 209,267 | - | 961,651 | 88,878 | 5,073,766 |

Property Gross Share of Royalties, Expenses and Net Revenues Before and After Tax

| Year | Customs Duty US\$M | M.E.T. US\$M | M.E.T. % | Export Rent Tax US\$M | Operating Costs US\$M | Operating Costs US\$/boe | Aband. Costs US\$M | Capital Costs US\$M | Net Cash Flow B. Tax US\$M | Property & Corp. Tax US\$M | Excess Profit Tax US\$M | Net Cash Flow A. Tax US\$M |
|-------|--------------------|--------------|----------|-----------------------|-----------------------|--------------------------|--------------------|---------------------|----------------------------|----------------------------|-------------------------|----------------------------|
| 2011 | 819 | 504 | 5.0 | 1,715 | 5,031 | 33.16 | - | 48,475 | (46,456) | 412 | - | (46,868) |
| 2012 | 9,999 | 6,329 | 5.0 | 21,518 | 18,647 | 10.07 | - | 225,611 | (155,526) | 2,098 | - | (157,624) |
| 2013 | 33,654 | 44,249 | 9.1 | 74,430 | 43,342 | 5.00 | - | 282,958 | 7,639 | 37,782 | 16,318 | (46,462) |
| 2014 | 54,417 | 91,462 | 10.9 | 139,120 | 61,340 | 4.10 | - | 145,980 | 349,077 | 67,077 | 64,428 | 217,572 |
| 2015 | 56,903 | 99,214 | 10.9 | 150,498 | 65,421 | 4.25 | - | 12,383 | 528,514 | 75,610 | 85,719 | 367,185 |
| 2016 | 45,191 | 84,929 | 10.8 | 123,810 | 62,112 | 4.69 | - | 497 | 467,587 | 65,575 | 80,290 | 321,721 |
| 2017 | 34,433 | 64,703 | 10.0 | 106,392 | 58,472 | 5.20 | - | 23,638 | 359,397 | 53,112 | 62,984 | 243,300 |
| 2018 | 26,277 | 54,214 | 10.0 | 82,804 | 56,684 | 5.82 | - | 24,660 | 297,504 | 44,340 | 53,665 | 199,499 |
| 2019 | 19,830 | 42,749 | 9.3 | 63,620 | 55,563 | 6.51 | - | 1,038 | 274,985 | 38,133 | 51,583 | 185,269 |
| 2020 | 10,114 | 24,963 | 9.4 | 33,139 | 36,168 | 7.07 | - | 292 | 160,737 | 22,300 | 33,162 | 105,275 |
| 2021 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2022 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2023 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2024 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2025 | - | - | - | - | - | - | - | - | - | - | - | - |
| Rem. | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | 291,636 | 513,317 | 10.1 | 797,046 | 462,779 | 5.21 | - | 765,533 | 2,243,457 | 406,439 | 448,149 | 1,388,868 |

Company Working Interest Share of Production and Revenues Before and After tax

| Year | Gross Annual Production Mboe | Net Annual Production Mboe | Total Sales Revenue US\$M | M.E.T. & Export Duty US\$M | Operating Costs US\$M | Capital & Aband. Costs US\$M | Net Cash Flow B. Tax US\$M | Property & Corp. Tax US\$M | Excess Profit Tax US\$M | Net Cash Flow A. Tax US\$M | Cum Cash Flow A.T. US\$M | NPV A.T. at 10.0% US\$M |
|-------|------------------------------|----------------------------|---------------------------|----------------------------|-----------------------|------------------------------|----------------------------|----------------------------|-------------------------|----------------------------|--------------------------|-------------------------|
| 2011 | 152 | 144 | 10,089 | 3,038 | 5,031 | 48,475 | (46,456) | 412 | - | (46,868) | (46,868) | (44,687) |
| 2012 | 1,852 | 1,760 | 126,578 | 37,846 | 18,647 | 225,611 | (155,526) | 2,098 | - | (157,624) | (204,492) | (136,626) |
| 2013 | 8,665 | 7,861 | 486,272 | 152,333 | 43,342 | 282,958 | 7,639 | 37,782 | 16,318 | (46,462) | (250,953) | (36,611) |
| 2014 | 14,943 | 13,348 | 841,395 | 284,998 | 61,340 | 145,980 | 349,077 | 67,077 | 64,428 | 217,572 | (33,382) | 155,858 |
| 2015 | 15,403 | 13,758 | 912,932 | 306,615 | 65,421 | 12,383 | 528,514 | 75,610 | 85,719 | 367,185 | 333,803 | 239,121 |
| 2016 | 13,234 | 11,827 | 784,126 | 253,930 | 62,112 | 497 | 467,587 | 65,575 | 80,290 | 321,721 | 655,525 | 190,467 |
| 2017 | 11,242 | 10,118 | 647,035 | 205,528 | 58,472 | 23,638 | 359,397 | 53,112 | 62,984 | 243,300 | 898,825 | 130,945 |
| 2018 | 9,732 | 8,758 | 542,144 | 163,296 | 56,684 | 24,660 | 297,504 | 44,340 | 53,665 | 199,499 | 1,098,324 | 97,610 |
| 2019 | 8,538 | 7,721 | 457,784 | 126,198 | 55,563 | 1,038 | 274,985 | 38,133 | 51,583 | 185,269 | 1,283,593 | 82,407 |
| 2020 | 5,117 | 4,624 | 265,413 | 68,216 | 36,168 | 292 | 160,737 | 22,300 | 33,162 | 105,275 | 1,388,868 | 42,569 |
| 2021 | - | - | - | - | - | - | - | - | - | - | 1,388,868 | - |
| 2022 | - | - | - | - | - | - | - | - | - | - | 1,388,868 | - |
| 2023 | - | - | - | - | - | - | - | - | - | - | 1,388,868 | - |
| 2024 | - | - | - | - | - | - | - | - | - | - | 1,388,868 | - |
| 2025 | - | - | - | - | - | - | - | - | - | - | 1,388,868 | - |
| Rem. | - | - | - | - | - | - | - | - | - | - | 1,388,868 | - |
| Total | 88,878 | 79,919 | 5,073,766 | 1,601,998 | 462,779 | 765,533 | 2,243,457 | 406,439 | 448,149 | 1,388,868 | | 721,054 |

Tenge JV
Tenge Field - Kazakhstan - Competent Person's Report
Forecast of Production and Revenues to End of Contract
Total Proved + Probable + Possible Reserves
Effective December 31, 2010

Property Gross Share of Production and Gross Revenues

| Year | Producing Well Count | Crude Oil | | | | | Natural Gas | | | | Total Oil&Gas BOE Mbbl | Total Sales Revenue US\$M |
|-------|----------------------|-----------------|--------------------|------------------|--------------------------|---------------------|------------------|--------------------|------------------------|---------------------|------------------------|---------------------------|
| | | Daily Rate Bopd | Annual Volume Mbbl | Annual Volume MT | Crude Oil Price US\$/bbl | Sales Revenue US\$M | Daily Rate Mcfpd | Annual Volume MMcf | Nat Gas Price US\$/Mcf | Sales Revenue US\$M | | |
| 2011 | 6 | 416 | 152 | 20 | 66.50 | 10,089 | - | - | - | - | 152 | 10,089 |
| 2012 | 13 | 5,075 | 1,852 | 250 | 68.33 | 126,578 | - | - | - | - | 1,852 | 126,578 |
| 2013 | 38 | 21,375 | 7,802 | 1,054 | 70.25 | 548,105 | 52,000 | 18,980 | 3.32 | 62,980 | 10,965 | 611,085 |
| 2014 | 64 | 40,742 | 14,871 | 2,009 | 72.67 | 1,080,638 | 130,000 | 47,450 | 3.74 | 177,427 | 22,779 | 1,258,065 |
| 2015 | 80 | 45,815 | 16,722 | 2,259 | 75.18 | 1,257,102 | 130,000 | 47,450 | 4.14 | 196,362 | 24,631 | 1,453,463 |
| 2016 | 80 | 41,735 | 15,233 | 2,058 | 77.87 | 1,186,286 | 130,000 | 47,450 | 4.54 | 215,300 | 23,142 | 1,401,586 |
| 2017 | 77 | 33,111 | 12,086 | 1,632 | 79.47 | 960,389 | 130,000 | 47,450 | 4.81 | 228,161 | 19,994 | 1,188,550 |
| 2018 | 74 | 26,281 | 9,593 | 1,296 | 81.05 | 777,482 | 130,000 | 47,450 | 5.06 | 240,240 | 17,501 | 1,017,722 |
| 2019 | 78 | 20,790 | 7,588 | 1,025 | 82.52 | 626,219 | 130,000 | 47,450 | 5.30 | 251,605 | 15,497 | 877,824 |
| 2020 | 82 | 11,007 | 4,017 | 543 | 84.29 | 338,633 | 86,667 | 31,633 | 5.53 | 174,863 | 9,290 | 513,497 |
| 2021 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2022 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2023 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2024 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2025 | - | - | - | - | - | - | - | - | - | - | - | - |
| Rem. | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | | | 89,917 | 12,145 | - | 6,911,520 | | 335,313 | - | 1,546,938 | 145,802 | 8,458,458 |

Property Gross Share of Royalties, Expenses and Net Revenues Before and After Tax

| Year | Customs Duty US\$M | M.E.T. US\$M | M.E.T. % | Export Rent Tax US\$M | Operating Costs US\$M | Operating Costs US\$/boe | Aband. Costs US\$M | Capital Costs US\$M | Net Cash Flow B. Tax US\$M | Property & Corp. Tax US\$M | Excess Profit Tax US\$M | Net Cash Flow A. Tax US\$M |
|-------|--------------------|--------------|----------|-----------------------|-----------------------|--------------------------|--------------------|---------------------|----------------------------|----------------------------|-------------------------|----------------------------|
| 2011 | 819 | 504 | 5.0 | 1,715 | 6,031 | 39.75 | - | 66,563 | (65,544) | 527 | - | (66,071) |
| 2012 | 9,996 | 6,329 | 5.0 | 21,518 | 22,727 | 12.27 | - | 294,092 | (228,085) | 2,747 | - | (230,832) |
| 2013 | 42,144 | 61,109 | 10.0 | 93,178 | 55,346 | 5.05 | - | 341,607 | 17,701 | 43,822 | 14,828 | (40,949) |
| 2014 | 80,355 | 147,419 | 11.7 | 205,321 | 84,238 | 3.70 | - | 171,290 | 569,441 | 102,314 | 111,316 | 355,812 |
| 2015 | 90,346 | 170,488 | 11.7 | 238,849 | 93,171 | 3.78 | - | 54,159 | 806,449 | 121,618 | 151,353 | 533,478 |
| 2016 | 82,311 | 163,884 | 11.7 | 225,394 | 92,157 | 3.98 | - | 591 | 837,249 | 119,607 | 163,967 | 553,675 |
| 2017 | 65,299 | 128,459 | 10.8 | 201,682 | 87,146 | 4.36 | - | 572 | 705,392 | 100,729 | 139,833 | 464,830 |
| 2018 | 51,828 | 109,547 | 10.8 | 163,271 | 83,248 | 4.76 | - | 555 | 609,274 | 87,077 | 128,708 | 393,488 |
| 2019 | 40,997 | 94,045 | 10.7 | 131,506 | 81,710 | 5.27 | - | 38,173 | 491,394 | 75,049 | 114,662 | 301,683 |
| 2020 | 21,704 | 51,350 | 10.0 | 71,113 | 54,023 | 5.82 | - | 25,939 | 289,368 | 44,505 | 72,192 | 172,670 |
| 2021 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2022 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2023 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2024 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2025 | - | - | - | - | - | - | - | - | - | - | - | - |
| Rem. | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | 485,799 | 933,134 | 11.0 | 1,353,548 | 659,798 | 4.53 | - | 993,541 | 4,032,639 | 697,996 | 896,858 | 2,437,785 |

Company Working Interest Share of Production and Revenues Before and After tax

| Year | Gross Annual Production Mboe | Net Annual Production Mboe | Total Sales Revenue US\$M | M.E.T. & Export Duty & Rent Tax US\$M | Operating Costs US\$M | Capital & Aband. Costs US\$M | Net Cash Flow B. Tax US\$M | Property & Corp. Tax US\$M | Excess Profit Tax US\$M | Net Cash Flow A. Tax US\$M | Cum Cash Flow A.T. US\$M | NPV A.T. at 10.0% US\$M |
|-------|------------------------------|----------------------------|---------------------------|---------------------------------------|-----------------------|------------------------------|----------------------------|----------------------------|-------------------------|----------------------------|--------------------------|-------------------------|
| 2011 | 152 | 144 | 10,089 | 3,038 | 6,031 | 66,563 | (65,544) | 527 | - | (66,071) | (66,071) | (62,996) |
| 2012 | 1,852 | 1,760 | 126,578 | 37,843 | 22,727 | 294,092 | (228,085) | 2,747 | - | (230,832) | (296,903) | (200,082) |
| 2013 | 10,965 | 9,869 | 611,085 | 196,431 | 55,346 | 341,607 | 17,701 | 43,822 | 14,828 | (40,949) | (337,852) | (32,267) |
| 2014 | 22,779 | 20,204 | 1,258,065 | 433,096 | 84,238 | 171,290 | 569,441 | 102,314 | 111,316 | 355,812 | 17,960 | 254,886 |
| 2015 | 24,631 | 21,833 | 1,453,463 | 499,684 | 93,171 | 54,159 | 806,449 | 121,618 | 151,353 | 533,478 | 551,438 | 347,416 |
| 2016 | 23,142 | 20,523 | 1,401,586 | 471,589 | 92,157 | 591 | 837,249 | 119,607 | 163,967 | 553,675 | 1,105,113 | 327,790 |
| 2017 | 19,994 | 17,874 | 1,188,550 | 395,440 | 87,146 | 572 | 705,392 | 100,729 | 139,833 | 464,830 | 1,569,943 | 250,174 |
| 2018 | 17,501 | 15,655 | 1,017,722 | 324,646 | 83,248 | 555 | 609,274 | 87,077 | 128,708 | 393,488 | 1,963,432 | 192,525 |
| 2019 | 15,497 | 13,871 | 877,824 | 266,547 | 81,710 | 38,173 | 491,394 | 75,049 | 114,662 | 301,683 | 2,265,115 | 134,188 |
| 2020 | 9,290 | 8,361 | 513,497 | 144,166 | 54,023 | 25,939 | 289,368 | 44,505 | 72,192 | 172,670 | 2,437,785 | 69,821 |
| 2021 | - | - | - | - | - | - | - | - | - | - | 2,437,785 | - |
| 2022 | - | - | - | - | - | - | - | - | - | - | 2,437,785 | - |
| 2023 | - | - | - | - | - | - | - | - | - | - | 2,437,785 | - |
| 2024 | - | - | - | - | - | - | - | - | - | - | 2,437,785 | - |
| 2025 | - | - | - | - | - | - | - | - | - | - | 2,437,785 | - |
| Rem. | - | - | - | - | - | - | - | - | - | - | 2,437,785 | - |
| Total | 145,802 | 130,093 | 8,458,458 | 2,772,480 | 659,798 | 993,541 | 4,032,639 | 697,996 | 896,858 | 2,437,785 | | 1,281,454 |

Tenge JV
Tenge Field - Kazakhstan - Competent Person's Report
Crude Oil Reserves Summary*
Effective December 31, 2010

Table 6

| Age Zone Area | Jurassic 18 A Sand | Jurassic 18 B Sand | Jurassic 18 C Sand | Jurassic 21 East | Jurassic 21 West | Jurassic 22 A Sand | Jurassic 22 B Sand | Jurassic 23 Total | Total Crude Oil Reserves |
|---|---------------------------|---------------------------|---------------------------|-------------------------|-------------------------|---------------------------|---------------------------|--------------------------|---------------------------------|
| Porosity, % | 17.0 | 17.5 | 17.5 | 15.0 | 15.0 | 14.0 | 14.0 | 14.0 | |
| Water Saturation, % | 35.0 | 35.0 | 35.0 | 40.0 | 40.0 | 35.0 | 35.0 | 35.0 | |
| Oil Shrinkage, frac | 0.78 | 0.78 | 0.78 | 0.81 | 0.81 | 0.82 | 0.82 | 0.82 | |
| Original Oil-In Place, bbl/ac-ft | 665 | 685 | 685 | 562 | 562 | 579 | 579 | 579 | |
| Area, Acres | 9,590 | 6,949 | 5,046 | 1,546 | 684 | 4,016 | 3,784 | 6,315 | |
| Gross Rock Volume, Acre-ft | 292,720 | 335,710 | 277,005 | 319,409 | 150,815 | 220,314 | 149,715 | 360,547 | |
| Net Rock Volume, Acre-ft | 96,102 | 185,288 | 89,496 | 75,700 | 17,947 | 79,313 | 109,292 | 250,941 | |
| Average Net to Gross, % | 33 | 55 | 32 | 24 | 12 | 36 | 73 | 70 | |
| Average Net Pay, ft. | 10.0 | 26.7 | 17.7 | 49.0 | 26.2 | 19.7 | 28.9 | 39.7 | |
| Original Oil in Place, Mbbl | 63,913 | 126,851 | 61,271 | 42,557 | 10,089 | 45,896 | 63,244 | 145,212 | 559,034 |
| Proved Producing Reserves | | | | | | | | | |
| Proved Producing Area, Acres | | 396 | | | 80 | | | 40 | |
| Average PDP Net Pay, ft. | | 50 | | | 22 | | | 53 | |
| Original Oil in Place, Mbbl | | 13,500 | | | 1,003 | | | 1,216 | |
| Recovery Factor, % | | 8.8 | | | 6.2 | | | 2 | |
| Original Recoverable, Mbbl | - | 1,189 | - | 2 | 62 | - | - | 30 | 1,283 |
| Cumulative Recovery, Mbbl | - | 828 | - | 2 | 30 | - | - | 30 | 890 |
| Remaining Recoverable, Mbbl | - | 361 | - | - | 32 | - | - | - | 393 |
| 1P Reserves | | | | | | | | | |
| Percentage of Mapped In Place Volume, % | | 50 | 50 | | | | | | |
| Original Oil in Place, Mbbl | | 63,426 | 30,635 | | 1,003 | | | 1,216 | 96,280 |
| Recovery Factor, % | | 10.0 | 10.0 | | 6.2 | | | 2 | 9.9 |
| Original Recoverable, Mbbl | - | 6,343 | 3,064 | 2 | 62 | - | - | 30 | 9,500 |
| Cumulative Recovery, Mbbl | - | 828 | - | 2 | 30 | - | - | 30 | 890 |
| Remaining Recoverable, Mbbl | - | 5,515 | 3,064 | - | 32 | - | - | - | 8,610 |
| 2P Reserves | | | | | | | | | |
| Percentage of Mapped In Place Volume, % | 100 | 100 | 100 | 50 | 25 | 100 | 100 | 100 | |
| Original Oil in Place, Mbbl | 63,913 | 126,851 | 61,271 | 21,278 | 2,522 | 45,896 | 63,244 | 145,212 | 530,188 |
| Recovery Factor, % | 4.0 | 25.0 | 25.0 | 20.0 | 15.0 | 2.0 | 2.0 | 2.0 | 11.2 |
| Original Recoverable, Mbbl | 2,557 | 31,713 | 15,318 | 4,256 | 378 | 918 | 1,265 | 2,904 | 59,308 |
| Cumulative Recovery, Mbbl | - | 828 | - | 2 | 30 | - | - | 30 | 890 |
| Remaining Recoverable, Mbbl | 2,557 | 30,885 | 15,318 | 4,254 | 348 | 918 | 1,265 | 2,874 | 58,418 |
| 3P Reserves | | | | | | | | | |
| Percentage of Mapped In Place Volume, % | 125 | 125 | 125 | 100 | 100 | 125 | 125 | 125 | |
| Original Oil in Place, Mbbl | 79,892 | 158,564 | 76,588 | 42,557 | 10,089 | 57,370 | 79,055 | 181,515 | 685,631 |
| Recovery Factor, % | 10.0 | 30.0 | 30.0 | 25.0 | 20.0 | 5.0 | 5.0 | 5.0 | 15.6 |
| Original Recoverable, Mbbl | 7,989 | 47,569 | 22,976 | 10,639 | 2,018 | 2,869 | 3,953 | 9,076 | 107,089 |
| Cumulative Recovery, Mbbl | - | 828 | - | 2 | 30 | - | - | 30 | 890 |
| Remaining Recoverable, Mbbl | 7,989 | 46,742 | 22,976 | 10,637 | 1,988 | 2,869 | 3,953 | 9,046 | 106,199 |

McDaniel & Associates
Consultants Ltd.

*Reserves quoted are for the full life of the field and include recovery beyond the contract expiry (Sept. 5, 2020)
Tenge JV - Tenge December 31, 2010 - CPR - Final.xlsm

11/05/2011

Tenge JV
Tenge Field - Kazakhstan - Competent Person's Report
Solution Gas Reserves Summary*
Effective December 31, 2010

Table 7

| Age Zone Area | Jurassic 18 A Sand | Jurassic 18 B Sand | Jurassic 18 C Sand | Jurassic 21 East | Jurassic 21 West | Jurassic 22 A Sand | Jurassic 22 B Sand | Jurassic 23 Total | Total Sol'n Gas Reserves |
|---|-----------------------------------|-----------------------------------|-----------------------------------|---------------------------------|---------------------------------|-----------------------------------|-----------------------------------|----------------------------------|---|
| Original Oil in Place, Mbbbl | 63,913 | 126,851 | 61,271 | 42,557 | 10,089 | 45,896 | 63,244 | 145,212 | 559,034 |
| Raw Solution Gas GOR, scf/bbl | 555 | 555 | 555 | 555 | 555 | 495 | 495 | 498 | |
| Original Solution Gas in Place, MMcf | 35,496 | 70,450 | 34,028 | 23,632 | 5,603 | 22,725 | 31,315 | 72,323 | 295,570 |
| 1P Reserves | | | | | | | | | |
| Percentage of Mapped In Place Volume, % | - | - | - | - | - | - | - | - | |
| Original Solution Gas in Place, MMcf | - | - | - | - | - | - | - | - | - |
| Recovery Factor, % | - | - | - | - | - | - | - | - | - |
| Original Raw Recoverable, MMcf | - | - | - | - | - | - | - | - | - |
| Cumulative Raw Recovery, MMcf | - | 460 | - | 1 | 17 | - | - | 15 | 492 |
| Remaining Raw Recoverable, MMcf | - | - | - | - | - | - | - | - | - |
| Gas Shrinkage, % | - | - | - | - | - | - | - | - | - |
| Sales Gas Remaining Recoverable, MMcf | - | - | - | - | - | - | - | - | - |
| 2P Reserves | | | | | | | | | |
| Percentage of Mapped In Place Volume, % | 100 | 100 | 100 | 25 | 25 | 100 | 100 | 100 | |
| Original Solution Gas in Place, MMcf | 35,496 | 70,450 | 34,028 | 5,908 | 1,401 | 22,725 | 31,315 | 72,323 | 273,644 |
| Recovery Factor, % | 10.0 | 40.0 | 40.0 | 40.0 | 20.0 | 35.0 | 35.0 | 35.0 | 33.7 |
| Original Raw Recoverable, MMcf | 3,550 | 28,180 | 13,611 | 2,363 | 280 | 7,954 | 10,960 | 25,313 | 92,211 |
| Cumulative Raw Recovery, MMcf | - | 460 | - | 1 | 17 | - | - | 15 | 492 |
| Remaining Raw Recoverable, MMcf | 3,550 | 27,720 | 13,611 | 2,362 | 263 | 7,954 | 10,960 | 25,298 | 91,718 |
| Gas Shrinkage, % | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Sales Gas Remaining Recoverable, MMcf | 3,195 | 24,948 | 12,250 | 2,126 | 237 | 7,158 | 9,864 | 22,768 | 82,546 |
| 3P Reserves | | | | | | | | | |
| Percentage of Mapped In Place Volume, % | 125 | 125 | 125 | 50 | 50 | 125 | 125 | 125 | |
| Original Solution Gas in Place, MMcf | 44,370 | 88,062 | 42,535 | 11,816 | 2,801 | 28,406 | 39,143 | 90,403 | 347,537 |
| Recovery Factor, % | 20.0 | 50.0 | 50.0 | 50.0 | 30.0 | 45.0 | 45.0 | 45.0 | 43.7 |
| Original Raw Recoverable, MMcf | 8,874 | 44,031 | 21,267 | 5,908 | 840 | 12,783 | 17,615 | 40,681 | 152,000 |
| Cumulative Raw Recovery, MMcf | - | 460 | - | 1 | 17 | - | - | 15 | 492 |
| Remaining Raw Recoverable, MMcf | 8,874 | 43,571 | 21,267 | 5,907 | 824 | 12,783 | 17,615 | 40,666 | 151,507 |
| Gas Shrinkage, % | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Sales Gas Remaining Recoverable, MMcf | 7,987 | 39,214 | 19,141 | 5,316 | 741 | 11,505 | 15,853 | 36,600 | 136,356 |

| Tenge JV Tenge Field - Kazakhstan - Competent Person's Report Gas Cap Reserves Summary* Effective December 31, 2010 | | | | | | | | | Table 8 |
|--|--------------------------|--------------------------|--------------------------|------------------------|------------------------|--------------------------|--------------------------|-------------------------|------------------------------|
| Age Zone Area | Jurassic 18 A Sand | Jurassic 18 B Sand | Jurassic 18 C Sand | Jurassic 21 East | Jurassic 21 West | Jurassic 22 A Sand | Jurassic 22 B Sand | Jurassic 23 Total | Total Gas Cap Reserves |
| Porosity, % | 17.0 | 17.5 | 17.5 | 15.0 | | 14.0 | 14.0 | 14.0 | |
| Water Saturation, % | 30.0 | 30.0 | 30.0 | 30.0 | | 30.0 | 30.0 | 30.0 | |
| Pressure, psia | 2,902 | 2,902 | 2,902 | 3,106 | | 3,252 | 3,252 | 3,413 | |
| Temperature, deg F | 198 | 198 | 198 | 211 | | 214 | 214 | 221 | |
| Z-Factor, frac. | 0.91 | 0.91 | 0.91 | 0.92 | | 0.93 | 0.93 | 0.94 | |
| Original Gas In Place, mcf/ac-ft | 892 | 918 | 918 | 817 | | 786 | 786 | 808 | |
| Area, Acres | 11,867 | 5,400 | 2,624 | 1,072 | | 2,614 | 2,678 | 3,523 | |
| Gross Rock Volume, Acre-ft | 1,095,473 | 399,139 | 175,392 | 49,448 | | 299,494 | 145,853 | 251,902 | |
| Net Rock Volume, Acre-ft | 393,049 | 197,625 | 37,289 | 7,959 | | 107,818 | 106,473 | 175,324 | |
| Average Net to Gross, % | 36 | 50 | 21 | 16 | | 36 | 73 | 70 | |
| Average Net Pay, ft. | 33.1 | 36.6 | 14.2 | 7.4 | | 41.2 | 39.8 | 49.8 | |
| Original Gas in Place, MMcf | 350,699 | 181,518 | 34,250 | 6,502 | | 84,781 | 83,723 | 141,612 | 883,085 |
| 1P Reserves | | | | | | | | | |
| Percentage of Mapped Gas-in Place, % | - | - | - | - | | - | - | - | |
| Original Gas in Place, MMcf | - | - | - | - | | - | - | - | - |
| Recovery Factor, % | - | - | - | - | | - | - | - | - |
| Original Raw Recoverable, MMcf | - | - | - | - | | - | - | - | - |
| Cumulative Raw Recovery, MMcf | - | - | - | - | | - | - | - | - |
| Remaining Raw Recoverable, MMcf | - | - | - | - | | - | - | - | - |
| Gas Shrinkage, % | - | - | - | - | | - | - | - | - |
| Sales Gas Remaining Recoverable, MMcf | - | - | - | - | | - | - | - | - |
| 2P Reserves | | | | | | | | | |
| Percentage of Mapped Gas-in Place, % | 100 | 100 | 100 | 100 | | 100 | 100 | 100 | |
| Original Gas in Place, MMcf | 350,699 | 181,518 | 34,250 | 6,502 | | 84,781 | 83,723 | 141,612 | 883,085 |
| Recovery Factor, % | 70.0 | 70.0 | 70.0 | 70.0 | | 70.0 | 70.0 | 70.0 | - |
| Original Raw Recoverable, MMcf | 245,489 | 127,062 | 23,975 | 4,552 | | 59,347 | 58,606 | 99,128 | 618,160 |
| Cumulative Raw Recovery, MMcf | - | - | 9,866 | - | | 24,812 | 24,503 | 41,444 | 100,626 |
| Remaining Raw Recoverable, MMcf | 245,489 | 127,062 | 14,109 | 4,552 | | 34,534 | 34,104 | 57,684 | 517,534 |
| Gas Shrinkage, % | 10 | 10 | 10 | 10 | | 10 | 10 | 10 | - |
| Sales Gas Remaining Recoverable, MMcf | 220,940 | 114,356 | 12,698 | 4,097 | | 31,081 | 30,693 | 51,915 | 465,781 |
| 3P Reserves | | | | | | | | | |
| Percentage of Mapped Gas-in Place, % | 125 | 125 | 125 | 125 | | 125 | 125 | 125 | |
| Original Gas in Place, MMcf | 438,374 | 226,897 | 42,812 | 8,128 | | 105,976 | 104,654 | 177,015 | 1,103,856 |
| Recovery Factor, % | 80.0 | 80.0 | 80.0 | 80.0 | | 80.0 | 80.0 | 80.0 | - |
| Original Raw Recoverable, MMcf | 350,699 | 181,518 | 34,250 | 6,502 | | 84,781 | 83,723 | 141,612 | 883,085 |
| Cumulative Raw Recovery, MMcf | - | - | 9,866 | - | | 24,812 | 24,503 | 41,444 | 100,626 |
| Remaining Raw Recoverable, MMcf | 350,699 | 181,518 | 24,384 | 6,502 | | 59,969 | 59,221 | 100,167 | 782,459 |
| Gas Shrinkage, % | 10 | 10 | 10 | 10 | | 10 | 10 | 10 | - |
| Sales Gas Remaining Recoverable, MMcf | 315,629 | 163,366 | 21,945 | 5,852 | | 53,972 | 53,299 | 90,150 | 704,214 |

McDaniel & Associates
Consultants Ltd.

*Reserves quoted are for the full life of the field and include recovery beyond the contract expiry (Sept. 5, 2020)
Tenge JV - Tenge December 31, 2010 - CPR - Final.xlsm

11/05/2011

Tenge JV
Tenge Field - Kazakhstan - Competent Person's Report
Reservoir and Fluid Properties

Effective December 31, 2010

Table 9

| | Jurassic 18 | Jurassic 21 | Jurassic 22 | Jurassic 23 |
|--|----------------|----------------|----------------|----------------|
| Imperial Units | | | | |
| Lithology | SS | SS | SS | SS |
| Average Net Oil Pay Thickness, ft | 39 | 11 | 47 | 40 |
| Oil Pool Area, acres | 9,590 | 8,324 | 4,016 | 6,315 |
| Average Net Gas Pay Thickness, ft | 73 | 7 | 40 | 50 |
| Gas Pool Area, acres | 11,867 | 1,072 | 2,678 | 3,523 |
| Average Oil Column Depth, ft SS | 5,906 | 6,430 | 6,857 | 7,054 |
| Average Oil Permeability From Core, md | 1 to 50 | 1 to 50 | 1 to 50 | 1 to 50 |
| Initial Reservoir Pressure, atm | 197 | 211 | 221 | 232 |
| Initial Reservoir Pressure, psia | 2,902 | 3,106 | 3,252 | 3,413 |
| Bubble Point Pressure, atm | 197 | 211 | 221 | 232 |
| Bubble Point Pressure, psia | 2,902 | 3,106 | 3,252 | 3,413 |
| Reservoir Temperature, F | 198 | 210 | 214 | 221 |
| Stock Tank Oil Density, g/cc | 0.849 | 0.846 | 0.852 | 0.857 |
| Stock Tank Oil Gravity, degrees API | 35 | 36 | 35 | 34 |
| Oil Formation Volume Factor, Bo | 1.289 | 1.242 | 1.220 | 1.220 |
| Oil Viscosity* (insitu), cp | 0.9 | 1.1 | 1.1 | 1.1 |
| Solution GOR, scf/bbl | 555 | 555 | 495 | 498 |
| Oil Sulphur Content, % | 0.15 | n/a | n/a | n/a |
| Oil Paraffin Content, % | 24 | 22 | 22 | 25 |
| Ashphaltenes, % | 10 | 10 | 8 | 8 |
| Gas Compressibility, Z Factor | 0.91 | 0.92 | 0.93 | 0.94 |
| Gas Cap Gas Composition, CO2 (mol%) | 0.8 | n/a | 1.3 | 1.4 |
| Gas Cap Gas Composition, N2 (mol%) | 1.6 | n/a | 0.6 | 0.1 |
| Gas Cap Gas Composition, H2S (mol%) | - | - | - | - |

| | Jurassic 18 | Jurassic 21 | Jurassic 22 | Jurassic 23 |
|--|----------------|----------------|----------------|----------------|
| Metric Units | | | | |
| Lithology | SS | SS | SS | SS |
| Average Net Oil Pay Thickness, m | 12 | 3 | 14 | 12 |
| Oil Pool Area, ha | 3,836 | 3,330 | 1,606 | 2,526 |
| Average Net Gas Pay Thickness, m | 22 | 2 | 12 | 15 |
| Gas Pool Area, ha | 4,747 | 429 | 1,071 | 1,409 |
| Average Oil Column Depth, m SS | 1,800 | 1,960 | 2,090 | 2,150 |
| Average Oil Permeability From Core, md | 1 to 50 | 1 to 50 | 1 to 50 | 1 to 50 |
| Initial Reservoir Pressure, kPa | 19,900 | 21,300 | 22,300 | 23,400 |
| Bubble Point Pressure, kPa | 19,900 | 21,300 | 22,300 | 23,400 |
| Reservoir Temperature, C | 92 | 99 | 101 | 105 |
| Stock Tank Oil Density, g/cc | 0.849 | 0.846 | 0.852 | 0.857 |
| Oil Formation Volume Factor, Bo | 1.289 | 1.242 | 1.220 | 1.220 |
| Oil Viscosity, mPa.s | 0.9 | 1.1 | 1.1 | 1.1 |
| Solution GOR, m3/T | 116.5 | 116.9 | 103.5 | 103.5 |
| Solution GOR, m3/m3 | 99 | 99 | 88 | 89 |
| Oil Sulphur Content, % | 0.15 | n/a | n/a | n/a |
| Oil Paraffin Content, % | 24 | 22 | 22 | 25 |
| Ashphaltenes, % | 10 | 10 | 8 | 8 |
| Gas Compressibility, Z Factor | 0.91 | 0.92 | 0.93 | 0.94 |
| Gas Cap Gas Composition, CO2 (mol%) | 0.8 | n/a | 1.3 | 1.4 |
| Gas Cap Gas Composition, N2 (mol%) | 1.6 | n/a | 0.6 | 0.1 |
| Gas Cap Gas Composition, H2S (mol%) | - | - | - | - |

n/a = not available

Tenge JV
Tenge Field - Kazakhstan - Competent Person's Report
Summary of Economic Parameters
Effective December 31, 2010

Table 10
Page 1

Price Schedule

McDaniel & Associates December 31, 2010 Forecast Price Case

Pricing Adjustments (2011\$ - US)

| Product | Price Adjustment |
|--|------------------------|
| Crude Oil Export Price | Brent less \$18.50/bbl |
| It is assumed that 100 percent of the crude oil can be exported. | |
| Natural Gas Price | See Table 11 |

Operating Costs (2011\$ - US)

| Current Operating Costs | | | | |
|--|-----------|-----------|------------|------------|
| Variable Production Costs (\$ / Boe) | 3.00 | | | |
| Variable Operating Costs (\$ / well/month) | 3,000 | | | |
| Fixed Operating Costs (\$ / Year) | 1,250,000 | | | |
| Operating Costs for 2014+ | PDP | 1P | 2P | 3P |
| Variable Production Costs (\$ / Boe) | 1.00 | 2.50 | 2.00 | 1.75 |
| Variable Operating Costs (\$ / well/month) | 1,000 | 8,000 | 13,000 | 18,000 |
| Fixed Operating Costs (\$ / Year) | 200,000 | 2,700,000 | 18,400,000 | 25,800,000 |

* Operating Costs transition during 2011 from the 'current operating costs' to the 'operating costs for 2014+'

* Fixed field costs were reduced by 10 percent per year in each of the last three years of the forecast

* Operating Costs include general and administrative costs but exclude pipeline and marketing fees (netted out of price)

Capital Costs (2011\$ - US)

See Table 12

Abandonment Costs (2011\$ - US)

Total amount based on \$50,000 per well

Tenge JV
Tenge Field - Kazakhstan - Competent Person's Report
Summary of Economic Parameters
Effective December 31, 2010

Table 10
Page 2

Interests and Fiscal Terms

| | |
|--|---|
| Tenge JV Working Interest | 100 Percent |
| Crude Oil Customs Export Duty, \$/T | 40 |
| Mineral Extraction Tax (Incremental Tiers) | |
| | <div><div>Export Sales</div><div>Domestic Sales</div></div> |
| | <div><div><div>2011 to 2012</div><div>2013</div><div>2014+</div></div><div><div>2011 to 2012</div><div>2013</div><div>2014+</div></div></div> |
| Volumes less than 250 MT | <div><div>5.0%</div><div>6.0%</div><div>7.0%</div><div>2.5%</div><div>3.0%</div><div>3.5%</div></div> |
| From 250 to 500 MT | <div><div>7.0%</div><div>8.0%</div><div>9.0%</div><div>3.5%</div><div>4.0%</div><div>4.5%</div></div> |
| From 500 to 1,000 MT | <div><div>8.0%</div><div>9.0%</div><div>10.0%</div><div>4.0%</div><div>4.5%</div><div>5.0%</div></div> |
| From 1,000 to 2,000 MT | <div><div>9.0%</div><div>10.0%</div><div>11.0%</div><div>4.5%</div><div>5.0%</div><div>5.5%</div></div> |
| From 2,000 to 3,000 MT | <div><div>10.0%</div><div>11.0%</div><div>12.0%</div><div>5.0%</div><div>5.5%</div><div>6.0%</div></div> |
| From 3,000 to 4,000 MT | <div><div>11.0%</div><div>12.0%</div><div>13.0%</div><div>5.5%</div><div>6.0%</div><div>6.5%</div></div> |
| From 4,000 to 5,000 MT | <div><div>12.0%</div><div>13.0%</div><div>14.0%</div><div>6.0%</div><div>6.5%</div><div>7.0%</div></div> |
| From 5,000 to 7,000 MT | <div><div>13.0%</div><div>14.0%</div><div>15.0%</div><div>6.5%</div><div>7.0%</div><div>7.5%</div></div> |
| From 7,000 to 10,000 MT | <div><div>15.0%</div><div>16.0%</div><div>17.0%</div><div>7.5%</div><div>8.0%</div><div>8.5%</div></div> |
| Volumes exceeding 10,000 MT | <div><div>18.0%</div><div>19.0%</div><div>20.0%</div><div>9.0%</div><div>9.5%</div><div>10.0%</div></div> |
| Rent Tax on Exported Crude Oil - Based on World Price which was assumed to be Brent | |
| <div>World Price, \$/bbl</div> <div>20</div> <div>30</div> <div>40</div> <div>50</div> <div>60</div> <div>70</div> <div>80</div> <div>90</div> <div>100</div> <div>110</div> <div>120</div> <div>130</div> <div>140</div> <div>150</div> <div>160</div> <div>170</div> <div>180</div> <div>200</div> | <div>Tax Rate</div> <div>0%</div> <div>0%</div> <div>0%</div> <div>7%</div> <div>11%</div> <div>14%</div> <div>16%</div> <div>17%</div> <div>19%</div> <div>21%</div> <div>22%</div> <div>23%</div> <div>25%</div> <div>26%</div> <div>27%</div> <div>29%</div> <div>30%</div> <div>32%</div> |
| Capital Depreciation Rate – Development Costs | 15 Percent Declining Balance |
| Development Capital Cost Balance at December 31, 2010 | \$7.424 million |
| Tax Loss Carryforward Balance at December 31, 2010 | \$41.675 million |
| Profit Tax | 20.0 percent in 2011 to 2012 |
| | 17.5 percent in 2013 |
| | 15.0 percent in 2014+ |
| Excess Profits Tax (Incremental Tiers) - Based on Ratio of Accumulated Income to Accumulated Expenses: | |
| <div>Up to 1.25</div> <div>From 1.25 to 1.3</div> <div>From 1.3 to 1.4</div> <div>From 1.4 to 1.5</div> <div>From 1.5 to 1.6</div> <div>From 1.6 to 1.7</div> <div>Above 1.7</div> | <div>0 percent</div> <div>10 percent</div> <div>20 percent</div> <div>30 percent</div> <div>40 percent</div> <div>50 percent</div> <div>60 percent</div> |
| Property Tax | 1.5 Percent |
| VAT | Not Included |

Tenge JV
Summary of Price Forecasts
Effective December 31, 2010

Table 11

| Year | Brent Crude Oil Price \$US/bbl | Export Price Differential \$US/bbl | Export Price \$US/bbl | Tenge Gas Price \$US/Mcf | Tenge Gas Price \$US/E ³ m ³ | Inflation Forecast % |
|------------|---|---|-----------------------------|-----------------------------------|---|----------------------------|
| 2011 | 85.00 | 18.50 | 66.50 | 2.49 | 88.37 | 2.00 |
| 2012 | 87.20 | 18.87 | 68.33 | 2.75 | 97.60 | 2.00 |
| 2013 | 89.50 | 19.25 | 70.25 | 3.32 | 117.80 | 2.00 |
| 2014 | 92.30 | 19.63 | 72.67 | 3.74 | 132.74 | 2.00 |
| 2015 | 95.20 | 20.02 | 75.18 | 4.14 | 146.91 | 2.00 |
| 2016 | 98.30 | 20.43 | 77.87 | 4.54 | 161.08 | 2.00 |
| 2017 | 100.30 | 20.83 | 79.47 | 4.81 | 170.70 | 2.00 |
| 2018 | 102.30 | 21.25 | 81.05 | 5.06 | 179.74 | 2.00 |
| 2019 | 104.20 | 21.68 | 82.52 | 5.30 | 188.24 | 2.00 |
| 2020 | 106.40 | 22.11 | 84.29 | 5.53 | 196.24 | 2.00 |
| 2021 | 108.50 | 22.55 | 85.95 | 5.65 | 200.69 | 2.00 |
| 2022 | 110.70 | 23.00 | 87.70 | 5.79 | 205.43 | 2.00 |
| 2023 | 112.80 | 23.46 | 89.34 | 5.92 | 210.12 | 2.00 |
| 2024 | 115.10 | 23.93 | 91.17 | 6.06 | 215.09 | 2.00 |
| 2025 | 117.50 | 24.41 | 93.09 | 6.21 | 220.36 | 2.00 |
| 2026 | 119.85 | 24.90 | 94.95 | 6.35 | 225.48 | 2.00 |
| 2027 | 122.25 | 25.40 | 96.85 | 6.50 | 230.70 | 2.00 |
| 2028 | 124.69 | 25.90 | 98.79 | 6.65 | 236.02 | 2.00 |
| 2029 | 127.19 | 26.42 | 100.76 | 6.80 | 241.45 | 2.00 |
| 2030 | 129.73 | 26.95 | 102.78 | 6.96 | 246.99 | 2.00 |
| Thereafter | +2.0% | +2.0% | +2.0% | | | 2.00 |

Pricing Assumptions :

Brent and inflation forecasts based on the McDaniel & Associates December 31, 2010 price forecast.
The export price differential accounts for the differential at the point of sale as well as the cost of transportation and marketing fees to get the oil from the wellhead to the point of sale.
All production is exported and sold at the export price

Tenge JV
Tenge Field - Kazakhstan - Competent Person's Report
Forecast of Capital Costs - 2011\$
Effective December 31, 2010

Table 12
Page 1

Proved Producing Reserves

| Year | Horizontal | | | Vertical | | | Well | Conversions | Facilities | Capitalized | Total | Total |
|-------------------|--------------------|--------------------|------------|--------------------|--------------------|------------------|------|-------------|------------|----------------------|--------------------|----------------------|
| | Oil Prod'n # | Water Inj. # | 2011 US\$M | Oil Prod'n # | Gas Prod'n # | Gas Inj. # | | | | Maint. 2011 US\$M | Area 2011 US\$M | Area Future US\$M |
| 2011 | - | - | - | - | - | - | - | - | - | 40 | 40 | 40 |
| 2012 | - | - | - | - | - | - | - | - | - | 40 | 40 | 41 |
| 2013 | - | - | - | - | - | - | - | - | - | 40 | 40 | 42 |
| 2014 | - | - | - | - | - | - | - | - | - | 40 | 40 | 42 |
| 2015 | - | - | - | - | - | - | - | - | - | 40 | 40 | 43 |
| 2016 | - | - | - | - | - | - | - | - | - | 40 | 40 | 44 |
| 2017 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2018 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2019 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2020 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2021 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2022 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2023 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2024 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2025 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2026 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2027 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2028 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2029 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2030 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2031 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2032 | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | - | - | - | - | - | - | - | - | - | 240 | 240 | 252 |
| Average Well Cost | | | 5,500 | | | | | 100 | | | | |

Total Proved Reserves

| Year | Horizontal | | | Vertical | | | Well | Conversions | Facilities | Capitalized | Total | Total |
|-------------------|--------------------|--------------------|------------|--------------------|--------------------|------------------|--------|-------------|------------|----------------------|--------------------|----------------------|
| | Oil Prod'n # | Water Inj. # | 2011 US\$M | Oil Prod'n # | Gas Prod'n # | Gas Inj. # | | | | Maint. 2011 US\$M | Area 2011 US\$M | Area Future US\$M |
| 2011 | - | - | - | 2 | - | - | 6,800 | - | 5,752 | 50 | 12,602 | 12,602 |
| 2012 | 7 | - | 38,500 | - | - | 5 | 17,000 | - | 14,380 | 95 | 69,975 | 71,375 |
| 2013 | 5 | 5 | 55,000 | - | - | - | - | - | 8,628 | 155 | 63,783 | 66,360 |
| 2014 | 4 | - | 22,000 | - | - | - | - | - | - | 200 | 22,200 | 23,559 |
| 2015 | - | - | - | - | - | - | - | - | - | 200 | 200 | 216 |
| 2016 | - | - | - | - | - | - | - | - | - | 200 | 200 | 221 |
| 2017 | - | - | - | - | - | - | - | - | - | 200 | 200 | 225 |
| 2018 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2019 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2020 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2021 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2022 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2023 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2024 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2025 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2026 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2027 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2028 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2029 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2030 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2031 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2032 | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | 16 | 5 | 115,500 | 2 | - | 5 | 23,800 | - | 28,761 | 1,100 | 169,161 | 174,558 |
| Average Well Cost | | | 5,500 | | | | | 100 | | | | |

Tenge JV
Tenge Field - Kazakhstan - Competent Person's Report
Summary of Reserves and Net Present Values to End of Field Life
Effective December 31, 2010

Table 13

Summary of Reserves (1)

| <u>Reserve Category</u> | <u>Crude Oil Reserves - bbls</u> | | | <u>Crude Oil Reserves - Tonnes</u> | | |
|---|----------------------------------|---------|---------|------------------------------------|---------|---------|
| | Property | Company | Company | Property | Company | Company |
| | Gross | Gross | Net | Gross | Gross | Net |
| | Mbbl | Mbbl | Mbbl | MT | MT | MT |
| Proved Developed Producing Reserves | 393 | 393 | 369 | 53 | 53 | 50 |
| Proved Undeveloped Reserves | 8,217 | 8,217 | 7,669 | 1,109 | 1,109 | 1,035 |
| Total Proved Reserves | 8,610 | 8,610 | 8,038 | 1,162 | 1,162 | 1,085 |
| Probable Reserves | 49,808 | 49,808 | 44,537 | 6,726 | 6,726 | 6,014 |
| Proved Plus Probable Reserves | 58,418 | 58,418 | 52,575 | 7,888 | 7,888 | 7,099 |
| Possible Reserves | 47,781 | 47,781 | 41,985 | 6,456 | 6,456 | 5,673 |
| Proved Plus Probable Plus Possible Reserves | 106,199 | 106,199 | 94,560 | 14,344 | 14,344 | 12,772 |

| <u>Reserve Category</u> | <u>Natural Gas Reserves - scf</u> | | | <u>Barrels of Oil Equivalent</u> | | |
|---|-----------------------------------|---------|---------|----------------------------------|---------|---------|
| | Property | Company | Company | Property | Company | Company |
| | Gross | Gross | Net | Gross | Gross | Net |
| | MMcf | MMcf | MMcf | Mboe | Mboe | Mboe |
| Proved Developed Producing Reserves | - | - | - | 393 | 393 | 369 |
| Proved Undeveloped Reserves | - | - | - | 8,217 | 8,217 | 7,669 |
| Total Proved Reserves | - | - | - | 8,610 | 8,610 | 8,038 |
| Probable Reserves | 545,501 | 545,501 | 490,951 | 140,725 | 140,725 | 126,363 |
| Proved Plus Probable Reserves | 545,501 | 545,501 | 490,951 | 149,335 | 149,335 | 134,400 |
| Possible Reserves | 292,776 | 292,776 | 263,498 | 96,577 | 96,577 | 85,901 |
| Proved Plus Probable Plus Possible Reserves | 838,277 | 838,277 | 754,449 | 245,912 | 245,912 | 220,302 |

Summary of Company Share of Net Present Values Before Income Taxes

| <u>Reserve Category</u> | <u>\$M US Dollars</u> | | | | |
|---|-----------------------|-----------|-----------|-----------|-----------|
| | 0.0% | 5.0% | 10.0% | 15.0% | 20.0% |
| Proved Developed Producing Reserves | 14,384 | 12,132 | 10,432 | 9,119 | 8,084 |
| Proved Undeveloped Reserves | 175,674 | 126,309 | 90,862 | 64,976 | 45,793 |
| Total Proved Reserves | 190,058 | 138,441 | 101,294 | 74,095 | 53,878 |
| Probable Reserves | 3,958,104 | 2,414,494 | 1,586,099 | 1,099,452 | 792,141 |
| Proved Plus Probable Reserves | 4,148,163 | 2,552,935 | 1,687,394 | 1,173,547 | 846,018 |
| Possible Reserves | 3,084,566 | 1,980,115 | 1,339,360 | 943,199 | 685,314 |
| Proved Plus Probable Plus Possible Reserves | 7,232,729 | 4,533,050 | 3,026,754 | 2,116,746 | 1,531,332 |

Summary of Company Share of Net Present Values After Income Taxes

| <u>Reserve Category</u> | <u>\$M US Dollars</u> | | | | |
|---|-----------------------|-----------|-----------|-----------|---------|
| | 0.0% | 5.0% | 10.0% | 15.0% | 20.0% |
| Proved Developed Producing Reserves | 13,844 | 11,673 | 10,035 | 8,769 | 7,771 |
| Proved Undeveloped Reserves | 123,148 | 84,361 | 56,846 | 37,016 | 22,535 |
| Total Proved Reserves | 136,991 | 96,034 | 66,880 | 45,785 | 30,306 |
| Probable Reserves | 2,098,719 | 1,318,998 | 876,054 | 604,181 | 427,156 |
| Proved Plus Probable Reserves | 2,235,710 | 1,415,032 | 942,934 | 649,966 | 457,462 |
| Possible Reserves | 1,779,980 | 1,146,909 | 773,558 | 540,367 | 387,677 |
| Proved Plus Probable Plus Possible Reserves | 4,015,690 | 2,561,941 | 1,716,492 | 1,190,333 | 845,139 |

(1) Company Gross reserves are based on Company working interest share of the reserves.
Company Net reserves are based on Company working interest share of reserves after royalties.

Tenge JV

Table 14

Tenge Field - Kazakhstan - Competent Person's Report
Forecast of Prod. and Revenues to End of Field Life - For Illustrative Purposes Only
Proved Developed Producing Reserves
Effective December 31, 2010

Property Gross Share of Production and Gross Revenues

| Year | Producing Well Count | Crude Oil | | | | | Natural Gas | | | | Total Oil&Gas BOE | Total Sales Revenue |
|-------|----------------------|-----------------|--------------------|------------------|--------------------------|---------------------|------------------|--------------------|------------------------|---------------------|-------------------|---------------------|
| | | Daily Rate Bopd | Annual Volume Mbbl | Annual Volume MT | Crude Oil Price US\$/bbl | Sales Revenue US\$M | Daily Rate Mcfpd | Annual Volume MMcf | Nat Gas Price US\$/Mcf | Sales Revenue US\$M | Mbbl | US\$M |
| 2011 | 4 | 218 | 80 | 11 | 66.50 | 5,295 | - | - | - | - | 80 | 5,295 |
| 2012 | 4 | 183 | 67 | 9 | 68.33 | 4,566 | - | - | - | - | 67 | 4,566 |
| 2013 | 4 | 154 | 56 | 8 | 70.25 | 3,939 | - | - | - | - | 56 | 3,939 |
| 2014 | 4 | 129 | 47 | 6 | 72.67 | 3,419 | - | - | - | - | 47 | 3,419 |
| 2015 | 4 | 108 | 39 | 5 | 75.18 | 2,968 | - | - | - | - | 39 | 2,968 |
| 2016 | 4 | 91 | 33 | 4 | 77.87 | 2,579 | - | - | - | - | 33 | 2,579 |
| 2017 | 4 | 76 | 28 | 4 | 79.47 | 2,209 | - | - | - | - | 28 | 2,209 |
| 2018 | 4 | 64 | 23 | 3 | 81.05 | 1,890 | - | - | - | - | 23 | 1,890 |
| 2019 | 3 | 54 | 20 | 3 | 82.52 | 1,615 | - | - | - | - | 20 | 1,615 |
| 2020 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2021 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2022 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2023 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2024 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2025 | - | - | - | - | - | - | - | - | - | - | - | - |
| Rem. | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | | | 393 | 53 | 72.50 | 28,479 | | - | - | - | 393 | 28,479 |

Property Gross Share of Royalties, Expenses and Net Revenues Before and After Tax

| Year | Customs Duty US\$M | M.E.T. US\$M | M.E.T. % | Export Rent Tax US\$M | Operating Costs US\$M | Operating Costs US\$/boe | Aband. Costs US\$M | Capital Costs US\$M | Net Cash Flow B. Tax US\$M | Property & Corp. Tax US\$M | Excess Profit Tax US\$M | Net Cash Flow A. Tax US\$M |
|-------|--------------------|--------------|----------|-----------------------|-----------------------|--------------------------|--------------------|---------------------|----------------------------|----------------------------|-------------------------|----------------------------|
| 2011 | 430 | 265 | 5.0 | 900 | 1,633 | 20.51 | - | 40 | 2,028 | 103 | - | 1,924 |
| 2012 | 361 | 228 | 5.0 | 776 | 846 | 12.66 | - | 41 | 2,313 | 88 | - | 2,225 |
| 2013 | 303 | 236 | 6.0 | 670 | 316 | 5.64 | - | 42 | 2,372 | 76 | - | 2,297 |
| 2014 | 254 | 239 | 7.0 | 650 | 313 | 6.66 | - | 42 | 1,920 | 65 | - | 1,856 |
| 2015 | 213 | 208 | 7.0 | 564 | 311 | 7.88 | - | 43 | 1,628 | 56 | - | 1,573 |
| 2016 | 179 | 181 | 7.0 | 490 | 310 | 9.37 | - | 44 | 1,375 | 48 | - | 1,328 |
| 2017 | 150 | 155 | 7.0 | 464 | 280 | 10.08 | - | - | 1,160 | 41 | - | 1,119 |
| 2018 | 126 | 132 | 7.0 | 397 | 250 | 10.74 | - | - | 985 | 35 | - | 950 |
| 2019 | 106 | 113 | 7.0 | 339 | 221 | 11.28 | 234 | - | 602 | 30 | - | 572 |
| 2020 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2021 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2022 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2023 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2024 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2025 | - | - | - | - | - | - | - | - | - | - | - | - |
| Rem. | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | 2,120 | 1,757 | 6.2 | 5,249 | 4,481 | 11.41 | 234 | 252 | 14,384 | 541 | - | 13,844 |

Company Working Interest Share of Production and Revenues Before and After tax

| Year | Gross Annual Production Mboe | Net Annual Production Mboe | Total Sales Revenue US\$M | M.E.T. & Export Duty US\$M | Operating Costs US\$M | Capital & Aband. Costs US\$M | Net Cash Flow B. Tax US\$M | Property & Corp. Tax US\$M | Excess Profit Tax US\$M | Net Cash Flow A. Tax US\$M | Cum Cash Flow A.T. US\$M | NPV A.T. at 10.0% US\$M |
|-------|------------------------------|----------------------------|---------------------------|----------------------------|-----------------------|------------------------------|----------------------------|----------------------------|-------------------------|----------------------------|--------------------------|-------------------------|
| 2011 | 80 | 76 | 5,295 | 1,595 | 1,633 | 40 | 2,028 | 103 | - | 1,924 | 1,924 | 1,835 |
| 2012 | 67 | 63 | 4,566 | 1,365 | 846 | 41 | 2,313 | 88 | - | 2,225 | 4,150 | 1,929 |
| 2013 | 56 | 53 | 3,939 | 1,209 | 316 | 42 | 2,372 | 76 | - | 2,297 | 6,446 | 1,810 |
| 2014 | 47 | 44 | 3,419 | 1,143 | 313 | 42 | 1,920 | 65 | - | 1,856 | 8,302 | 1,329 |
| 2015 | 39 | 37 | 2,968 | 985 | 311 | 43 | 1,628 | 56 | - | 1,573 | 9,875 | 1,024 |
| 2016 | 33 | 31 | 2,579 | 849 | 310 | 44 | 1,375 | 48 | - | 1,328 | 11,202 | 786 |
| 2017 | 28 | 26 | 2,209 | 768 | 280 | - | 1,160 | 41 | - | 1,119 | 12,321 | 602 |
| 2018 | 23 | 22 | 1,890 | 655 | 250 | - | 985 | 35 | - | 950 | 13,271 | 465 |
| 2019 | 20 | 18 | 1,615 | 558 | 221 | 234 | 602 | 30 | - | 572 | 13,844 | 255 |
| 2020 | - | - | - | - | - | - | - | - | - | - | 13,844 | - |
| 2021 | - | - | - | - | - | - | - | - | - | - | 13,844 | - |
| 2022 | - | - | - | - | - | - | - | - | - | - | 13,844 | - |
| 2023 | - | - | - | - | - | - | - | - | - | - | 13,844 | - |
| 2024 | - | - | - | - | - | - | - | - | - | - | 13,844 | - |
| 2025 | - | - | - | - | - | - | - | - | - | - | 13,844 | - |
| Rem. | - | - | - | - | - | - | - | - | - | - | 13,844 | - |
| Total | 393 | 369 | 28,479 | 9,127 | 4,481 | 487 | 14,384 | 541 | - | 13,844 | | 10,035 |

Tenge JV

Table 15

Tenge Field - Kazakhstan - Competent Person's Report
Forecast of Prod. and Revenues to End of Field Life - For Illustrative Purposes Only
Total Proved Reserves
Effective December 31, 2010

Property Gross Share of Production and Gross Revenues

| Year | Producing Well Count | Crude Oil | | | | Natural Gas | | | | Total Oil&Gas BOE | Total Sales Revenue |
|-------|----------------------|-----------------|--------------------|------------------|--------------------------|---------------------|------------------|--------------------|------------------------|---------------------|---------------------|
| | | Daily Rate Bopd | Annual Volume Mbbl | Annual Volume MT | Crude Oil Price US\$/bbl | Sales Revenue US\$M | Daily Rate Mcfpd | Annual Volume MMcf | Nat Gas Price US\$/Mcf | Sales Revenue US\$M | Mbbl |
| 2011 | 5 | 328 | 120 | 16 | 66.50 | 7,965 | - | - | - | - | 120 |
| 2012 | 10 | 1,800 | 657 | 89 | 68.33 | 44,898 | - | - | - | - | 657 |
| 2013 | 16 | 4,112 | 1,501 | 203 | 70.25 | 105,432 | - | - | - | - | 1,501 |
| 2014 | 20 | 4,951 | 1,807 | 244 | 72.67 | 131,312 | - | - | - | - | 1,807 |
| 2015 | 20 | 4,453 | 1,625 | 219 | 75.18 | 122,188 | - | - | - | - | 1,625 |
| 2016 | 20 | 3,055 | 1,115 | 151 | 77.87 | 86,835 | - | - | - | - | 1,115 |
| 2017 | 20 | 2,101 | 767 | 104 | 79.47 | 60,937 | - | - | - | - | 767 |
| 2018 | 19 | 1,449 | 529 | 71 | 81.05 | 42,874 | - | - | - | - | 529 |
| 2019 | 18 | 910 | 332 | 45 | 82.52 | 27,409 | - | - | - | - | 332 |
| 2020 | 17 | 430 | 157 | 21 | 84.29 | 13,244 | - | - | - | - | 157 |
| 2021 | - | - | - | - | - | - | - | - | - | - | - |
| 2022 | - | - | - | - | - | - | - | - | - | - | - |
| 2023 | - | - | - | - | - | - | - | - | - | - | - |
| 2024 | - | - | - | - | - | - | - | - | - | - | - |
| 2025 | - | - | - | - | - | - | - | - | - | - | - |
| Rem. | - | - | - | - | - | - | - | - | - | - | - |
| Total | | | 8,610 | 1,162 | 74.69 | 643,094 | | - | - | - | 8,610 |

Property Gross Share of Royalties, Expenses and Net Revenues Before and After Tax

| Year | Customs Duty US\$M | M.E.T. US\$M | M.E.T. % | Export Rent Tax US\$M | Operating Costs US\$M | Operating Costs US\$/boe | Aband. Costs US\$M | Capital Costs US\$M | Net Cash Flow B. Tax US\$M | Property & Corp. Tax US\$M | Excess Profit Tax US\$M | Net Cash Flow A. Tax US\$M |
|-------|--------------------|--------------|----------|-----------------------|-----------------------|--------------------------|--------------------|---------------------|----------------------------|----------------------------|-------------------------|----------------------------|
| 2011 | 647 | 398 | 5.0 | 1,354 | 2,039 | 17.03 | - | 12,602 | (9,075) | 183 | - | (9,259) |
| 2012 | 3,548 | 2,245 | 5.0 | 7,633 | 4,836 | 7.36 | - | 71,375 | (44,738) | 691 | - | (45,429) |
| 2013 | 8,103 | 6,326 | 6.0 | 17,923 | 8,261 | 5.50 | - | 66,360 | (1,541) | 3,868 | - | (5,409) |
| 2014 | 9,756 | 9,192 | 7.0 | 24,949 | 9,697 | 5.37 | - | 23,559 | 54,159 | 9,968 | 5,247 | 38,944 |
| 2015 | 8,776 | 8,553 | 7.0 | 23,216 | 9,399 | 5.78 | - | 216 | 72,027 | 9,524 | 5,750 | 56,754 |
| 2016 | 6,020 | 6,078 | 7.0 | 16,499 | 8,179 | 7.33 | - | 221 | 49,838 | 6,391 | 2,611 | 40,837 |
| 2017 | 4,140 | 4,266 | 7.0 | 12,797 | 7,362 | 9.60 | - | 225 | 32,148 | 3,903 | 476 | 27,768 |
| 2018 | 2,856 | 3,001 | 7.0 | 9,003 | 6,196 | 11.71 | - | - | 21,817 | 2,464 | - | 19,353 |
| 2019 | 1,793 | 1,919 | 7.0 | 5,756 | 5,128 | 15.44 | - | - | 12,813 | 1,234 | - | 11,579 |
| 2020 | 848 | 927 | 7.0 | 2,781 | 4,105 | 26.13 | 1,972 | - | 2,610 | 758 | - | 1,853 |
| 2021 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2022 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2023 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2024 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2025 | - | - | - | - | - | - | - | - | - | - | - | - |
| Rem. | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | 46,487 | 42,905 | 6.7 | 121,911 | 65,202 | 7.57 | 1,972 | 174,558 | 190,058 | 38,983 | 14,084 | 136,991 |

Company Working Interest Share of Production and Revenues Before and After tax

| Year | Gross Annual Production Mboe | Net Annual Production Mboe | Total Sales Revenue US\$M | M.E.T. & Export Duty US\$M | Operating Costs US\$M | Capital & Aband. Costs US\$M | Net Cash Flow B. Tax US\$M | Property & Corp. Tax US\$M | Excess Profit Tax US\$M | Net Cash Flow A. Tax US\$M | Cum Cash Flow A.T. US\$M | NPV A.T. at 10.0% US\$M |
|-------|------------------------------|----------------------------|---------------------------|----------------------------|-----------------------|------------------------------|----------------------------|----------------------------|-------------------------|----------------------------|--------------------------|-------------------------|
| 2011 | 120 | 114 | 7,965 | 2,399 | 2,039 | 12,602 | (9,075) | 183 | - | (9,259) | (9,259) | (8,828) |
| 2012 | 657 | 624 | 44,898 | 13,425 | 4,836 | 71,375 | (44,738) | 691 | - | (45,429) | (54,688) | (39,377) |
| 2013 | 1,501 | 1,411 | 105,432 | 32,352 | 8,261 | 66,360 | (1,541) | 3,868 | - | (5,409) | (60,097) | (4,262) |
| 2014 | 1,807 | 1,681 | 131,312 | 43,897 | 9,697 | 23,559 | 54,159 | 9,968 | 5,247 | 38,944 | (21,153) | 27,897 |
| 2015 | 1,625 | 1,512 | 122,188 | 40,544 | 9,399 | 216 | 72,027 | 9,524 | 5,750 | 56,754 | 35,601 | 36,960 |
| 2016 | 1,115 | 1,037 | 86,835 | 28,597 | 8,179 | 221 | 49,838 | 6,391 | 2,611 | 40,837 | 76,438 | 24,176 |
| 2017 | 767 | 713 | 60,937 | 21,203 | 7,362 | 225 | 32,148 | 3,903 | 476 | 27,768 | 104,206 | 14,945 |
| 2018 | 529 | 492 | 42,874 | 14,861 | 6,196 | - | 21,817 | 2,464 | - | 19,353 | 123,559 | 9,469 |
| 2019 | 332 | 309 | 27,409 | 9,468 | 5,128 | - | 12,813 | 1,234 | - | 11,579 | 135,138 | 5,150 |
| 2020 | 157 | 146 | 13,244 | 4,557 | 4,105 | 1,972 | 2,610 | 758 | - | 1,853 | 136,991 | 749 |
| 2021 | - | - | - | - | - | - | - | - | - | - | 136,991 | - |
| 2022 | - | - | - | - | - | - | - | - | - | - | 136,991 | - |
| 2023 | - | - | - | - | - | - | - | - | - | - | 136,991 | - |
| 2024 | - | - | - | - | - | - | - | - | - | - | 136,991 | - |
| 2025 | - | - | - | - | - | - | - | - | - | - | 136,991 | - |
| Rem. | - | - | - | - | - | - | - | - | - | - | 136,991 | - |
| Total | 8,610 | 8,038 | 643,094 | 211,304 | 65,202 | 176,530 | 190,058 | 38,983 | 14,084 | 136,991 | | 66,880 |

Tenge JV

Table 16

Tenge Field - Kazakhstan - Competent Person's Report
Forecast of Prod. and Revenues to End of Field Life - For Illustrative Purposes Only
Total Proved + Probable Reserves
Effective December 31, 2010

Property Gross Share of Production and Gross Revenues

| Year | Producing Well Count | Crude Oil | | | | | Natural Gas | | | | Total | Total |
|-------|----------------------|------------|---------------|---------------|-----------------|---------------|-------------|---------------|---------------|---------------|-------------|---------------|
| | | Daily Rate | Annual Volume | Annual Volume | Crude Oil Price | Sales Revenue | Daily Rate | Annual Volume | Nat Gas Price | Sales Revenue | Oil&Gas BOE | Sales Revenue |
| | | Bopd | Mbbl | MT | US\$/bbl | US\$M | Mcfpd | MMcf | US\$/Mcf | US\$M | Mbbl | US\$M |
| 2011 | 6 | 416 | 152 | 20 | 66.50 | 10,089 | - | - | - | - | 152 | 10,089 |
| 2012 | 13 | 5,075 | 1,852 | 250 | 68.33 | 126,578 | - | - | - | - | 1,852 | 126,578 |
| 2013 | 38 | 17,074 | 6,232 | 841 | 70.25 | 437,825 | 40,000 | 14,600 | 3.32 | 48,446 | 8,665 | 486,272 |
| 2014 | 61 | 27,606 | 10,076 | 1,360 | 72.67 | 732,209 | 80,000 | 29,200 | 3.74 | 109,186 | 14,943 | 841,395 |
| 2015 | 72 | 28,868 | 10,537 | 1,423 | 75.18 | 792,094 | 80,000 | 29,200 | 4.14 | 120,838 | 15,403 | 912,932 |
| 2016 | 73 | 22,925 | 8,368 | 1,130 | 77.87 | 651,633 | 80,000 | 29,200 | 4.54 | 132,493 | 13,234 | 784,126 |
| 2017 | 71 | 17,467 | 6,375 | 861 | 79.47 | 506,628 | 80,000 | 29,200 | 4.81 | 140,407 | 11,242 | 647,035 |
| 2018 | 74 | 13,329 | 4,865 | 657 | 81.05 | 394,304 | 80,000 | 29,200 | 5.06 | 147,840 | 9,732 | 542,144 |
| 2019 | 77 | 10,058 | 3,671 | 496 | 82.52 | 302,950 | 80,000 | 29,200 | 5.30 | 154,834 | 8,538 | 457,784 |
| 2020 | 75 | 7,694 | 2,808 | 379 | 84.29 | 236,707 | 80,000 | 29,200 | 5.53 | 161,412 | 7,675 | 398,119 |
| 2021 | 73 | 5,896 | 2,152 | 291 | 85.95 | 184,972 | 80,000 | 29,200 | 5.65 | 165,072 | 7,019 | 350,045 |
| 2022 | 71 | 2,637 | 962 | 130 | 87.70 | 84,400 | 80,000 | 29,200 | 5.79 | 168,975 | 5,829 | 253,375 |
| 2023 | 69 | 1,006 | 367 | 50 | 89.34 | 32,803 | 80,000 | 29,200 | 5.92 | 172,828 | 5,234 | 205,631 |
| 2024 | 38 | - | - | - | - | - | 80,000 | 29,200 | 6.06 | 176,921 | 4,867 | 176,921 |
| 2025 | 38 | - | - | - | - | - | 80,000 | 29,200 | 6.21 | 181,253 | 4,867 | 181,253 |
| Rem. | - | - | - | - | - | - | 38,040 | 180,501 | 6.80 | 1,226,909 | 30,084 | 1,226,909 |
| Total | | | 58,418 | 7,888 | 76.91 | 4,493,192 | | 545,501 | 5.70 | 3,107,413 | 149,335 | 7,600,606 |

Property Gross Share of Royalties, Expenses and Net Revenues Before and After Tax

| Year | Customs Duty US\$M | M.E.T. US\$M | M.E.T. % | Export Rent Tax US\$M | Operating Costs US\$M | Operating Costs US\$/boe | Aband. Costs US\$M | Capital Costs US\$M | Net Cash Flow B. Tax US\$M | Property & Corp. Tax US\$M | Excess Profit Tax US\$M | Net Cash Flow A. Tax US\$M |
|-------|--------------------|--------------|----------|-----------------------|-----------------------|--------------------------|--------------------|---------------------|----------------------------|----------------------------|-------------------------|----------------------------|
| 2011 | 819 | 504 | 5.0 | 1,715 | 5,031 | 33.16 | - | 48,475 | (46,456) | 412 | - | (46,868) |
| 2012 | 9,999 | 6,329 | 5.0 | 21,518 | 18,647 | 10.07 | - | 225,611 | (155,526) | 2,098 | - | (157,624) |
| 2013 | 33,654 | 44,249 | 9.1 | 74,430 | 43,342 | 5.00 | - | 282,958 | 7,639 | 37,782 | 16,318 | (46,462) |
| 2014 | 54,417 | 91,462 | 10.9 | 139,120 | 61,340 | 4.10 | - | 145,980 | 349,077 | 67,077 | 64,428 | 217,572 |
| 2015 | 56,903 | 99,214 | 10.9 | 150,498 | 65,421 | 4.25 | - | 12,383 | 528,514 | 75,610 | 85,719 | 367,185 |
| 2016 | 45,191 | 84,929 | 10.8 | 123,810 | 62,112 | 4.69 | - | 497 | 467,587 | 65,575 | 80,290 | 321,721 |
| 2017 | 34,433 | 64,703 | 10.0 | 106,392 | 58,472 | 5.20 | - | 23,638 | 359,397 | 53,112 | 62,984 | 243,300 |
| 2018 | 26,277 | 54,214 | 10.0 | 82,804 | 56,684 | 5.82 | - | 24,660 | 297,504 | 44,340 | 53,665 | 199,499 |
| 2019 | 19,830 | 42,749 | 9.3 | 63,620 | 55,563 | 6.51 | - | 1,038 | 274,985 | 38,133 | 51,583 | 185,269 |
| 2020 | 15,170 | 37,445 | 9.4 | 49,708 | 54,252 | 7.07 | - | 438 | 241,105 | 33,449 | 49,743 | 157,913 |
| 2021 | 11,627 | 33,155 | 9.5 | 38,844 | 49,761 | 7.09 | - | - | 216,657 | 30,136 | 49,805 | 136,716 |
| 2022 | 5,204 | 22,806 | 9.0 | 18,568 | 43,827 | 7.52 | - | - | 162,970 | 22,437 | 42,237 | 98,296 |
| 2023 | 1,990 | 19,579 | 9.5 | 7,217 | 39,225 | 7.49 | - | - | 137,620 | 18,936 | 40,548 | 78,136 |
| 2024 | - | 17,692 | 10.0 | - | 12,591 | 2.59 | - | - | 146,637 | 23,723 | 68,883 | 54,031 |
| 2025 | - | 18,125 | 10.0 | - | 12,843 | 2.64 | - | - | 150,285 | 24,270 | 70,624 | 55,390 |
| Rem. | - | 122,691 | 10.0 | - | 86,026 | 2.86 | 8,025 | - | 1,010,167 | 170,531 | 468,002 | 371,635 |
| Total | 315,513 | 759,846 | 10.0 | 878,244 | 725,136 | 4.86 | 8,025 | 765,679 | 4,148,163 | 707,624 | 1,204,829 | 2,235,710 |

Company Working Interest Share of Production and Revenues Before and After tax

| Year | Gross Annual Production Mboe | Net Annual Production Mboe | Total Sales Revenue US\$M | M.E.T. & Export Duty US\$M | Operating Costs US\$M | Capital & Aband. Costs US\$M | Net Cash Flow B. Tax US\$M | Property & Corp. Tax US\$M | Excess Profit Tax US\$M | Net Cash Flow A. Tax US\$M | Cum Cash Flow A.T. US\$M | NPV A.T. at 10.0% US\$M |
|-------|------------------------------|----------------------------|---------------------------|----------------------------|-----------------------|------------------------------|----------------------------|----------------------------|-------------------------|----------------------------|--------------------------|-------------------------|
| 2011 | 152 | 144 | 10,089 | 3,038 | 5,031 | 48,475 | (46,456) | 412 | - | (46,868) | (46,868) | (44,687) |
| 2012 | 1,852 | 1,760 | 126,578 | 37,846 | 18,647 | 225,611 | (155,526) | 2,098 | - | (157,624) | (204,492) | (136,626) |
| 2013 | 8,665 | 7,861 | 486,272 | 152,333 | 43,342 | 282,958 | 7,639 | 37,782 | 16,318 | (46,462) | (250,953) | (36,611) |
| 2014 | 14,943 | 13,348 | 841,395 | 284,998 | 61,340 | 145,980 | 349,077 | 67,077 | 64,428 | 217,572 | (33,382) | 155,858 |
| 2015 | 15,403 | 13,758 | 912,932 | 306,615 | 65,421 | 12,383 | 528,514 | 75,610 | 85,719 | 367,185 | 333,803 | 239,121 |
| 2016 | 13,234 | 11,827 | 784,126 | 253,930 | 62,112 | 497 | 467,587 | 65,575 | 80,290 | 321,721 | 655,525 | 190,467 |
| 2017 | 11,242 | 10,118 | 647,035 | 205,528 | 58,472 | 23,638 | 359,397 | 53,112 | 62,984 | 243,300 | 898,825 | 130,945 |
| 2018 | 9,732 | 8,758 | 542,144 | 163,296 | 56,684 | 24,660 | 297,504 | 44,340 | 53,665 | 199,499 | 1,098,324 | 97,610 |
| 2019 | 8,538 | 7,721 | 457,784 | 126,198 | 55,563 | 1,038 | 274,985 | 38,133 | 51,583 | 185,269 | 1,283,593 | 82,407 |
| 2020 | 7,675 | 6,935 | 398,119 | 102,324 | 54,252 | 438 | 241,105 | 33,449 | 49,743 | 157,913 | 1,441,506 | 63,854 |
| 2021 | 7,019 | 6,338 | 350,045 | 83,626 | 49,761 | - | 216,657 | 30,136 | 49,805 | 136,716 | 1,578,222 | 50,257 |
| 2022 | 5,829 | 5,275 | 253,375 | 46,577 | 43,827 | - | 162,970 | 22,437 | 42,237 | 98,296 | 1,676,518 | 32,849 |
| 2023 | 5,234 | 4,721 | 205,631 | 28,785 | 39,225 | - | 137,620 | 18,936 | 40,548 | 78,136 | 1,754,655 | 23,738 |
| 2024 | 4,867 | 4,380 | 176,921 | 17,692 | 12,591 | - | 146,637 | 23,723 | 68,883 | 54,031 | 1,808,685 | 14,922 |
| 2025 | 4,867 | 4,380 | 181,253 | 18,125 | 12,843 | - | 150,285 | 24,270 | 70,624 | 55,390 | 1,864,076 | 13,907 |
| Rem. | 30,084 | 27,075 | 1,226,909 | 122,691 | 86,026 | 8,025 | 1,010,167 | 170,531 | 468,002 | 371,635 | 2,235,710 | 64,922 |
| Total | 149,335 | 134,400 | 7,600,606 | 1,953,603 | 725,136 | 773,704 | 4,148,163 | 707,624 | 1,204,829 | 2,235,710 | | 942,934 |

McDaniel & Associates
Consultants Ltd.

Tenge JV

Table 17

Tenge Field - Kazakhstan - Competent Person's Report
Forecast of Prod. and Revenues to End of Field Life - For Illustrative Purposes Only
Total Proved + Probable + Possible Reserves
Effective December 31, 2010

Property Gross Share of Production and Gross Revenues

| Year | Producing Well Count | Crude Oil | | | | | Natural Gas | | | | Total | Total |
|-------|----------------------|-----------|---------|--------|-----------|-----------|-------------|---------|----------|-----------|---------|------------|
| | | Daily | Annual | Annual | Crude | Sales | Daily | Annual | Nat Gas | Sales | Oil&Gas | Sales |
| | | Rate | Volume | Volume | Oil Price | Revenue | Rate | Volume | Price | Revenue | BOE | Revenue |
| | | Bopd | Mbbl | MT | US\$/bbl | US\$M | Mcfpd | MMcf | US\$/Mcf | US\$M | Mbbl | US\$M |
| 2011 | 6 | 416 | 152 | 20 | 66.50 | 10,089 | - | - | - | - | 152 | 10,089 |
| 2012 | 13 | 5,075 | 1,852 | 250 | 68.33 | 126,578 | - | - | - | - | 1,852 | 126,578 |
| 2013 | 38 | 21,375 | 7,802 | 1,054 | 70.25 | 548,105 | 52,000 | 18,980 | 3.32 | 62,980 | 10,965 | 611,085 |
| 2014 | 64 | 40,742 | 14,871 | 2,009 | 72.67 | 1,080,638 | 130,000 | 47,450 | 3.74 | 177,427 | 22,779 | 1,258,065 |
| 2015 | 80 | 45,815 | 16,722 | 2,259 | 75.18 | 1,257,102 | 130,000 | 47,450 | 4.14 | 196,362 | 24,631 | 1,453,463 |
| 2016 | 80 | 41,735 | 15,233 | 2,058 | 77.87 | 1,186,286 | 130,000 | 47,450 | 4.54 | 215,300 | 23,142 | 1,401,586 |
| 2017 | 77 | 33,111 | 12,086 | 1,632 | 79.47 | 960,389 | 130,000 | 47,450 | 4.81 | 228,161 | 19,994 | 1,188,550 |
| 2018 | 74 | 26,281 | 9,593 | 1,296 | 81.05 | 777,482 | 130,000 | 47,450 | 5.06 | 240,240 | 17,501 | 1,017,722 |
| 2019 | 78 | 20,790 | 7,588 | 1,025 | 82.52 | 626,219 | 130,000 | 47,450 | 5.30 | 251,605 | 15,497 | 877,824 |
| 2020 | 82 | 16,510 | 6,026 | 814 | 84.29 | 507,950 | 130,000 | 47,450 | 5.53 | 262,295 | 13,934 | 770,245 |
| 2021 | 79 | 13,117 | 4,788 | 647 | 85.95 | 411,483 | 130,000 | 47,450 | 5.65 | 268,243 | 12,696 | 679,726 |
| 2022 | 77 | 10,425 | 3,805 | 514 | 87.70 | 333,691 | 130,000 | 47,450 | 5.79 | 274,585 | 11,713 | 608,276 |
| 2023 | 75 | 8,255 | 3,013 | 407 | 89.34 | 269,179 | 130,000 | 47,450 | 5.92 | 280,845 | 10,921 | 550,024 |
| 2024 | 73 | 4,519 | 1,649 | 223 | 91.17 | 150,371 | 130,000 | 47,450 | 6.06 | 287,496 | 9,558 | 437,867 |
| 2025 | 72 | 2,261 | 825 | 111 | 93.09 | 76,839 | 130,000 | 47,450 | 6.21 | 294,536 | 8,734 | 371,375 |
| Rem. | | 177 | 193 | 26 | 94.95 | 18,352 | 48,903 | 249,897 | 6.75 | 1,687,984 | 41,843 | 1,706,335 |
| Total | | | 106,199 | 14,344 | 78.54 | 8,340,751 | | 838,277 | 5.64 | 4,728,058 | 245,912 | 13,068,810 |

Property Gross Share of Royalties, Expenses and Net Revenues Before and After Tax

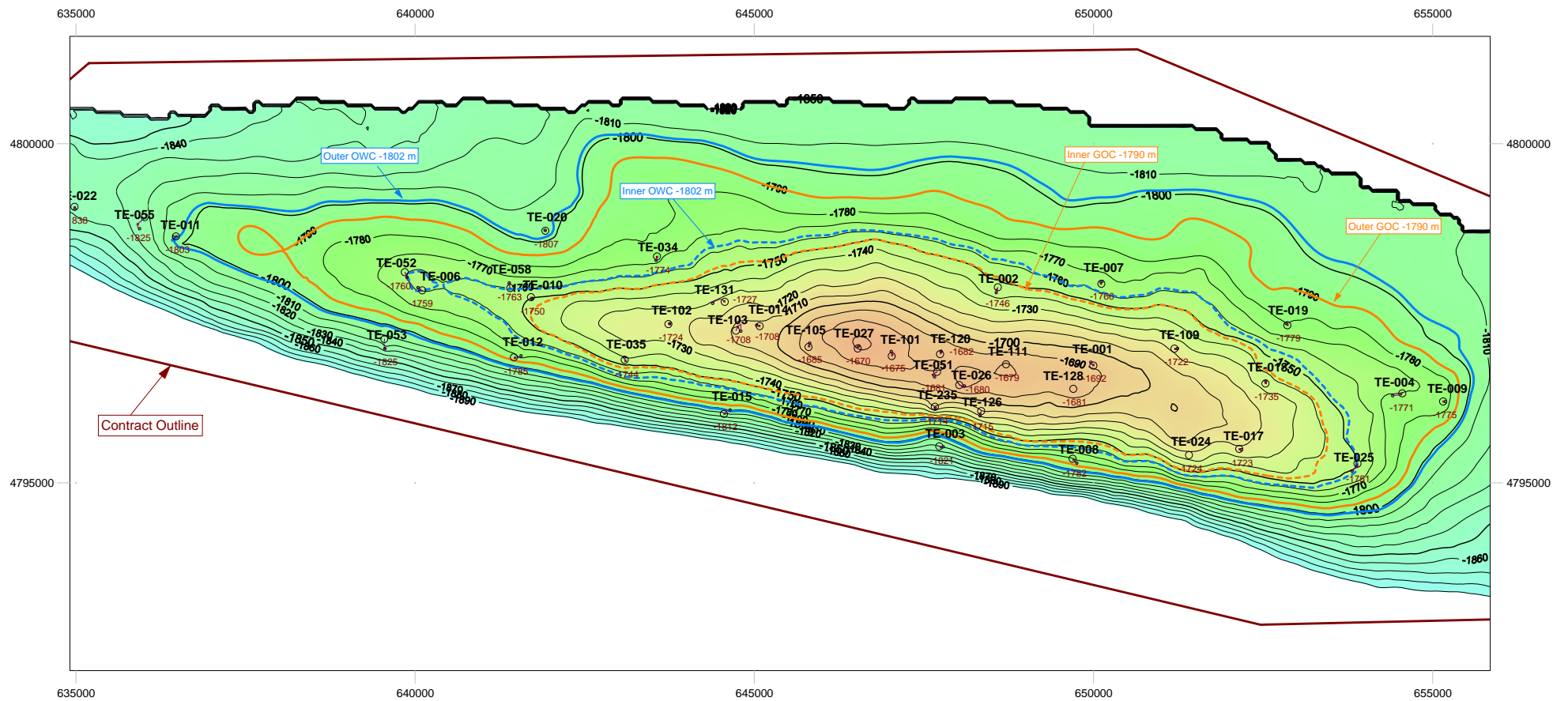
| Year | Customs Duty US\$M | M.E.T. US\$M | M.E.T. % | Export Rent Tax US\$M | Operating Costs US\$M | Operating Costs US\$/boe | Aband. Costs US\$M | Capital Costs US\$M | Net Cash Flow B. Tax US\$M | Property & Corp. Tax US\$M | Excess Profit Tax US\$M | Net Cash Flow A. Tax US\$M |
|-------|--------------------|--------------|----------|-----------------------|-----------------------|--------------------------|--------------------|---------------------|----------------------------|----------------------------|-------------------------|----------------------------|
| 2011 | 819 | 504 | 5.0 | 1,715 | 6,031 | 39.75 | - | 66,563 | (65,544) | 527 | - | (66,071) |
| 2012 | 9,996 | 6,329 | 5.0 | 21,518 | 22,727 | 12.27 | - | 294,092 | (228,085) | 2,747 | - | (230,832) |
| 2013 | 42,144 | 61,109 | 10.0 | 93,178 | 55,346 | 5.05 | - | 341,607 | 17,701 | 43,822 | 14,828 | (40,949) |
| 2014 | 80,355 | 147,419 | 11.7 | 205,321 | 84,238 | 3.70 | - | 171,290 | 569,441 | 102,314 | 111,316 | 355,812 |
| 2015 | 90,346 | 170,488 | 11.7 | 238,849 | 93,171 | 3.78 | - | 54,159 | 806,449 | 121,618 | 151,353 | 533,478 |
| 2016 | 82,311 | 163,884 | 11.7 | 225,394 | 92,157 | 3.98 | - | 591 | 837,249 | 119,607 | 163,967 | 553,675 |
| 2017 | 65,299 | 128,459 | 10.8 | 201,682 | 87,146 | 4.36 | - | 572 | 705,392 | 100,729 | 139,833 | 464,830 |
| 2018 | 51,828 | 109,547 | 10.8 | 163,271 | 83,248 | 4.76 | - | 555 | 609,274 | 87,077 | 128,708 | 393,488 |
| 2019 | 40,997 | 94,045 | 10.7 | 131,506 | 81,710 | 5.27 | - | 38,173 | 491,394 | 75,049 | 114,662 | 301,683 |
| 2020 | 32,556 | 77,024 | 10.0 | 106,669 | 81,034 | 5.82 | - | 38,909 | 434,052 | 66,758 | 108,288 | 259,006 |
| 2021 | 25,863 | 67,973 | 10.0 | 86,411 | 79,439 | 6.26 | - | 505 | 419,535 | 59,650 | 102,985 | 256,900 |
| 2022 | 20,554 | 60,828 | 10.0 | 73,412 | 78,334 | 6.69 | - | 489 | 374,659 | 53,414 | 97,054 | 224,191 |
| 2023 | 16,276 | 52,311 | 9.5 | 59,219 | 77,604 | 7.11 | - | 474 | 344,140 | 49,257 | 97,289 | 197,594 |
| 2024 | 8,901 | 39,276 | 9.0 | 33,082 | 70,156 | 7.34 | - | - | 286,453 | 40,901 | 91,237 | 154,315 |
| 2025 | 4,454 | 34,832 | 9.4 | 16,905 | 63,753 | 7.30 | - | - | 251,431 | 35,958 | 87,975 | 127,498 |
| Rem. | 1,043 | 170,083 | 10.0 | 4,037 | 142,642 | 3.41 | 9,343 | - | 1,379,187 | 222,015 | 626,102 | 531,071 |
| Total | 573,741 | 1,384,110 | 10.6 | 1,662,171 | 1,198,738 | 4.87 | 9,343 | 1,007,978 | 7,232,729 | 1,181,443 | 2,035,596 | 4,015,690 |

Company Working Interest Share of Production and Revenues Before and After tax

| Year | Gross Annual Production Mboe | Net Annual Production Mboe | Total Sales Revenue US\$M | M.E.T. & Export Duty US\$M | Operating Costs US\$M | Capital & Aband. Costs US\$M | Net Cash Flow B. Tax US\$M | Property & Corp. Tax US\$M | Excess Profit Tax US\$M | Net Cash Flow A. Tax US\$M | Cum Cash Flow A.T. US\$M | NPV A.T. at 10.0% US\$M |
|-------|------------------------------|----------------------------|---------------------------|----------------------------|-----------------------|------------------------------|----------------------------|----------------------------|-------------------------|----------------------------|--------------------------|-------------------------|
| 2011 | 152 | 144 | 10,089 | 3,038 | 6,031 | 66,563 | (65,544) | 527 | - | (66,071) | (66,071) | (62,996) |
| 2012 | 1,852 | 1,760 | 126,578 | 37,843 | 22,727 | 294,092 | (228,085) | 2,747 | - | (230,832) | (296,903) | (200,082) |
| 2013 | 10,965 | 9,869 | 1,185,085 | 196,431 | 55,346 | 341,607 | 17,701 | 43,822 | 14,828 | (40,949) | (337,852) | (32,267) |
| 2014 | 22,779 | 20,204 | 1,258,065 | 433,096 | 84,238 | 171,290 | 569,441 | 102,314 | 111,316 | 355,812 | 17,960 | 254,886 |
| 2015 | 24,631 | 21,833 | 1,453,463 | 499,684 | 93,171 | 54,159 | 806,449 | 121,618 | 151,353 | 533,478 | 551,438 | 347,416 |
| 2016 | 23,142 | 20,523 | 1,401,586 | 471,589 | 92,157 | 591 | 837,249 | 119,607 | 163,967 | 553,675 | 1,105,113 | 327,790 |
| 2017 | 19,994 | 17,874 | 1,188,550 | 395,440 | 87,146 | 572 | 705,392 | 100,729 | 139,833 | 464,830 | 1,569,943 | 250,174 |
| 2018 | 17,501 | 15,655 | 1,017,722 | 324,646 | 83,248 | 555 | 609,274 | 87,077 | 128,708 | 393,488 | 1,963,432 | 192,525 |
| 2019 | 15,497 | 13,871 | 877,824 | 266,547 | 81,710 | 38,173 | 491,394 | 75,049 | 114,662 | 301,683 | 2,265,115 | 134,188 |
| 2020 | 13,934 | 12,541 | 770,245 | 216,250 | 81,034 | 38,909 | 434,052 | 66,758 | 108,288 | 259,006 | 2,524,121 | 104,732 |
| 2021 | 12,696 | 11,426 | 679,726 | 180,247 | 79,439 | 505 | 419,535 | 59,650 | 102,985 | 256,900 | 2,781,021 | 94,437 |
| 2022 | 11,713 | 10,542 | 608,276 | 154,794 | 78,334 | 489 | 374,659 | 53,414 | 97,054 | 224,191 | 3,005,212 | 74,921 |
| 2023 | 10,921 | 9,859 | 550,024 | 127,806 | 77,604 | 474 | 344,140 | 49,257 | 97,289 | 197,594 | 3,202,806 | 60,030 |
| 2024 | 9,558 | 8,651 | 437,867 | 81,258 | 70,156 | - | 286,453 | 40,901 | 91,237 | 154,315 | 3,357,122 | 42,619 |
| 2025 | 8,734 | 7,885 | 371,375 | 56,191 | 63,753 | - | 251,431 | 35,958 | 87,975 | 127,498 | 3,484,620 | 32,012 |
| Rem. | 41,843 | 37,664 | 1,706,335 | 175,163 | 142,642 | 9,343 | 1,379,187 | 222,015 | 626,102 | 531,071 | 4,015,690 | 96,109 |
| Total | 245,912 | 220,302 | 13,068,810 | 3,620,023 | 1,198,738 | 1,017,321 | 7,232,729 | 1,181,443 | 2,035,596 | 4,015,690 | | 1,716,492 |

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Figure 1

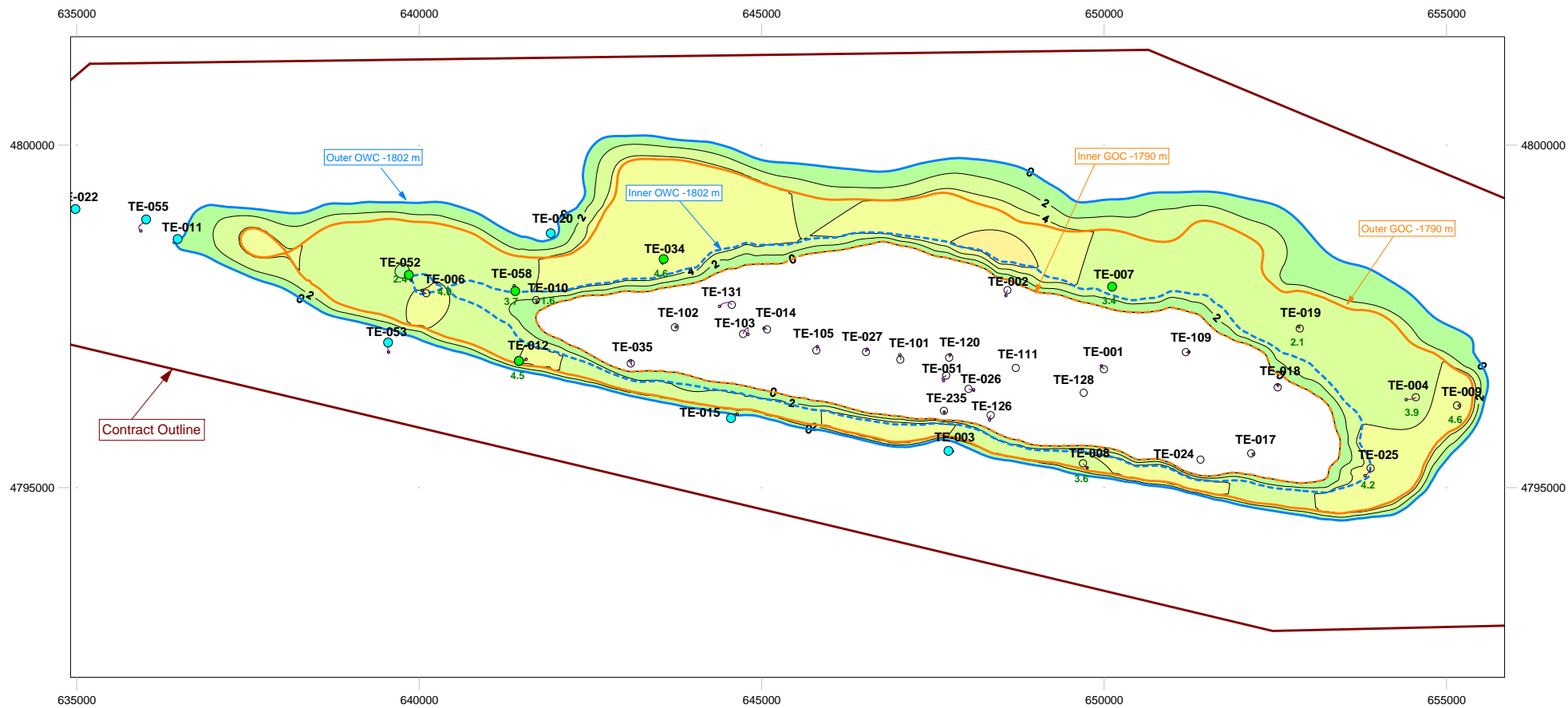


| Legend | |
|--------|---------------------|
| OWC | - Oil Water Contact |
| GOC | - Gas Oil Contact |
| LKO | - Lowest Known Oil |
| ○ | - Drilled well |

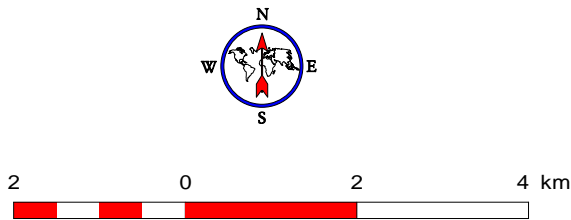


| | | |
|---|----------------|-------------|
|  | | |
| <p>Tenge JV Tenge Field - Kazakhstan Top Structure Map 18a Sand</p> | | |
| <mba> | Units – meters | 4 May, 2011 |

Figure 2



| Well Legend | Map Abbreviations |
|---|-------------------------|
| ● Oil producer | OWC - Oil Water Contact |
| ● Oil tested | GOC - Gas Oil Contact |
| ● Gas tested | LKO - Lowest Known Oil |
| ○ Oil and gas | |
| ● No hydrocarbons | |



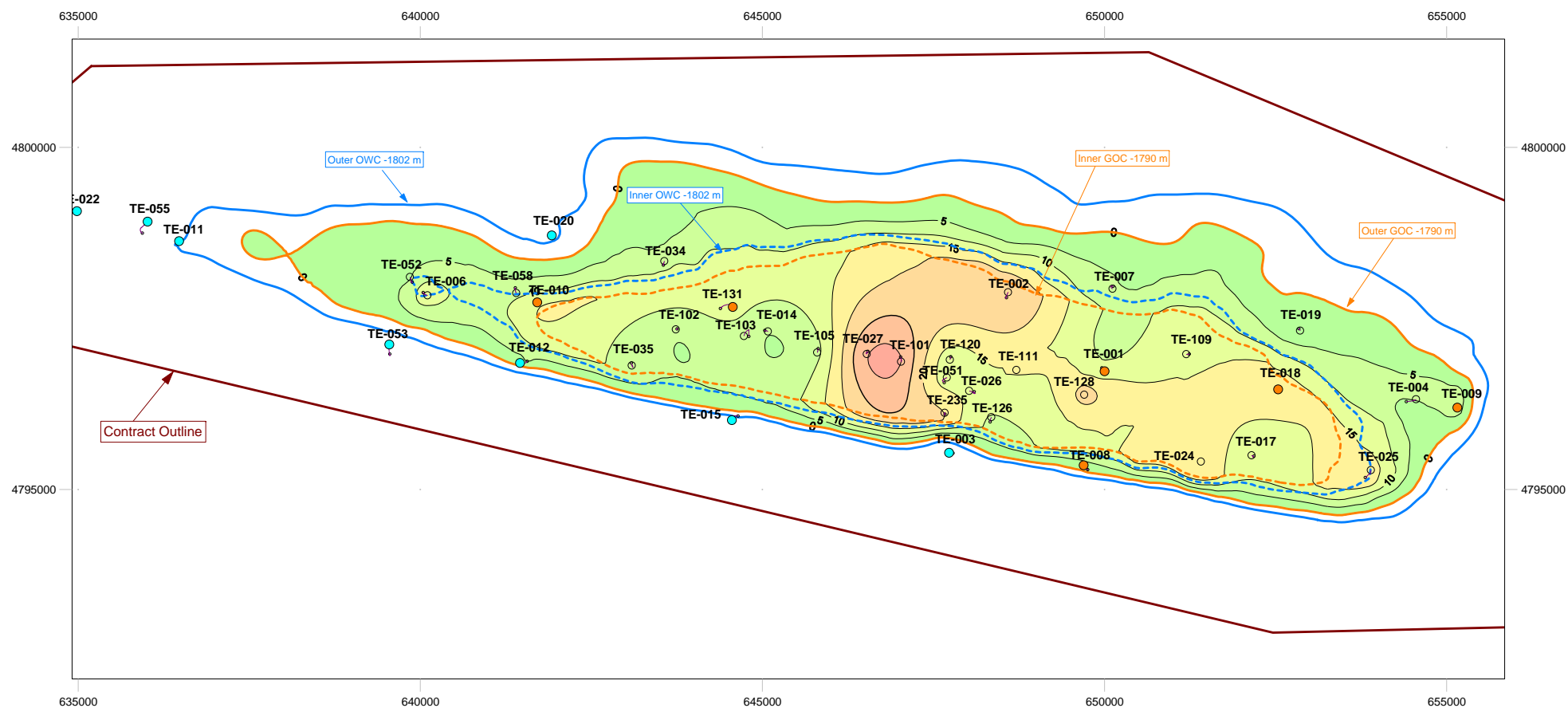


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& Associates Consultants Ltd.

Tenge JV
Tenge Field - Kazakhstan
Net Oil Thickness Map
18a Sand

<mba> Units – meters 4 May, 2011

Figure 3

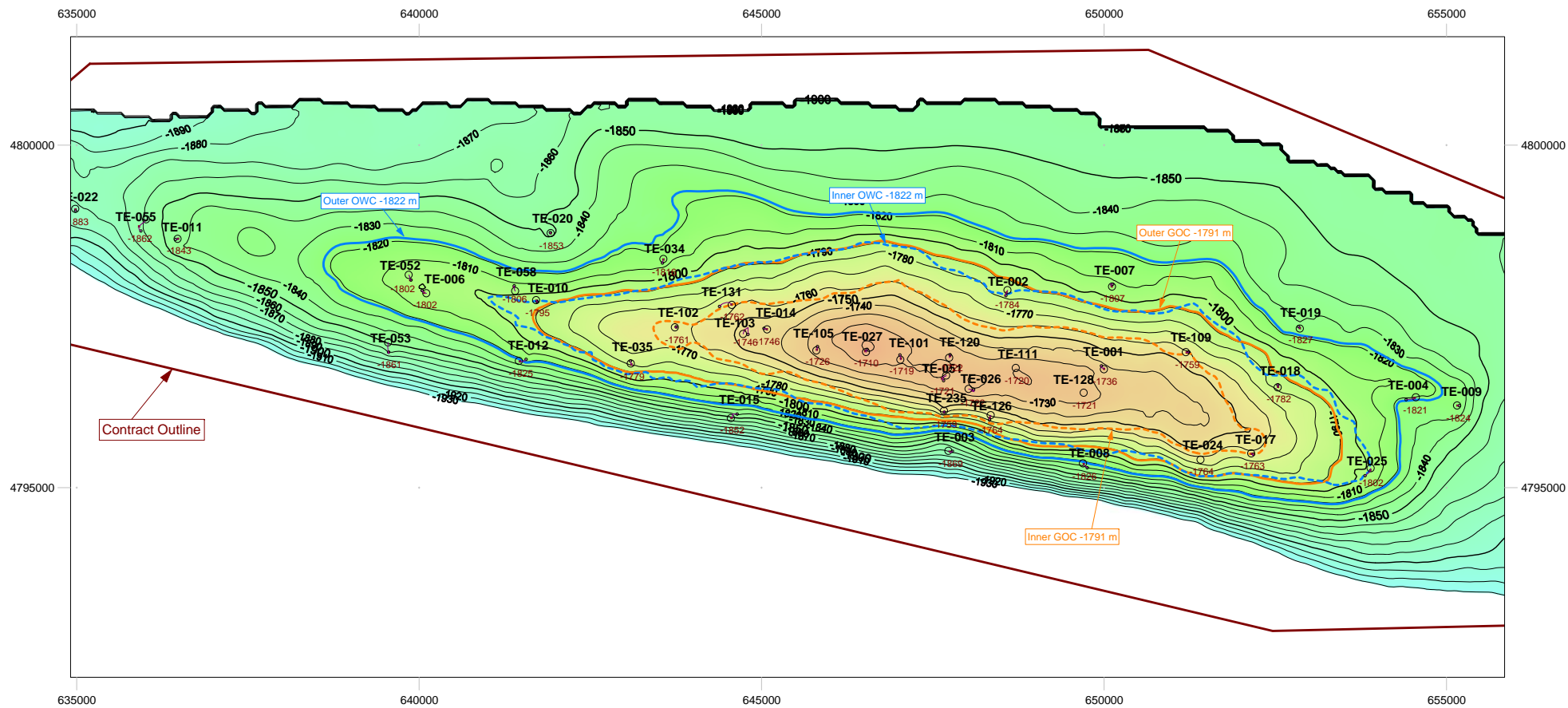


| Well Legend | Map Abbreviations |
|-------------------|-------------------------|
| ● Oil producer | OWC - Oil Water Contact |
| ● Oil tested | GOC - Gas Oil Contact |
| ● Gas tested | LKO - Lowest Known Oil |
| ○ Oil and gas | |
| ● No hydrocarbons | |



| | | |
|---|----------------|-------------|
| | | |
| <p>Tenge JV Tenge Field - Kazakhstan Net Gas Thickness Map 18a Sand</p> | | |
| <mba> | Units - meters | 4 May, 2011 |

Figure 4



| Legend | |
|--------|---------------------|
| OWC | - Oil Water Contact |
| GOC | - Gas Oil Contact |
| LKO | - Lowest Known Oil |
| ○ | - Drilled well |




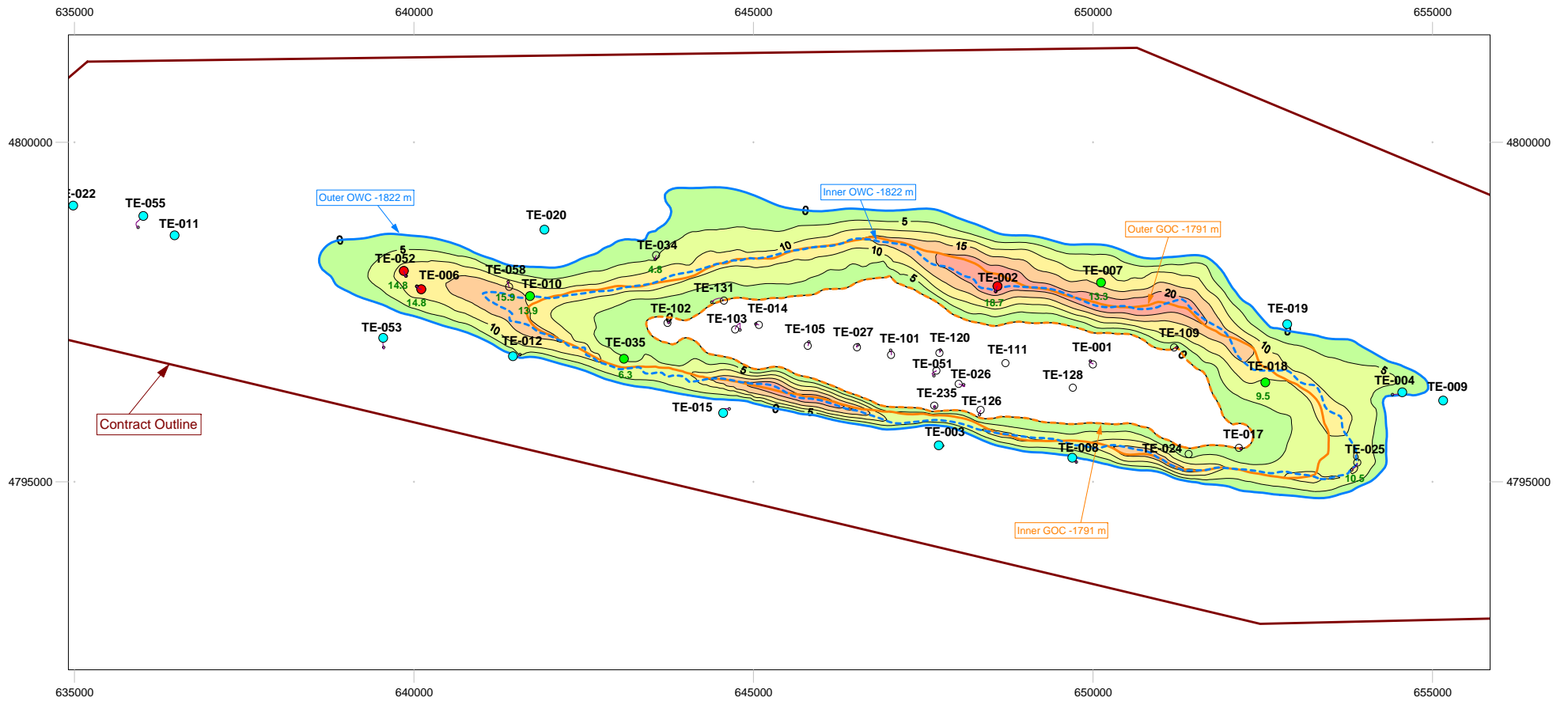
| | | |
|---|----------------|-------------|
|  | | |
| <p>Tenge JV Tenge Field - Kazakhstan Top Structure Map 18b Sand</p> | | |
| <mba> | Units – meters | 4 May, 2011 |

Figure 5



| Well Legend | Map Abbreviations |
|-------------------|-------------------------|
| ● Oil producer | OWC - Oil Water Contact |
| ● Oil tested | GOC - Gas Oil Contact |
| ● Gas tested | LKO - Lowest Known Oil |
| ○ Oil and gas | |
| ● No hydrocarbons | |




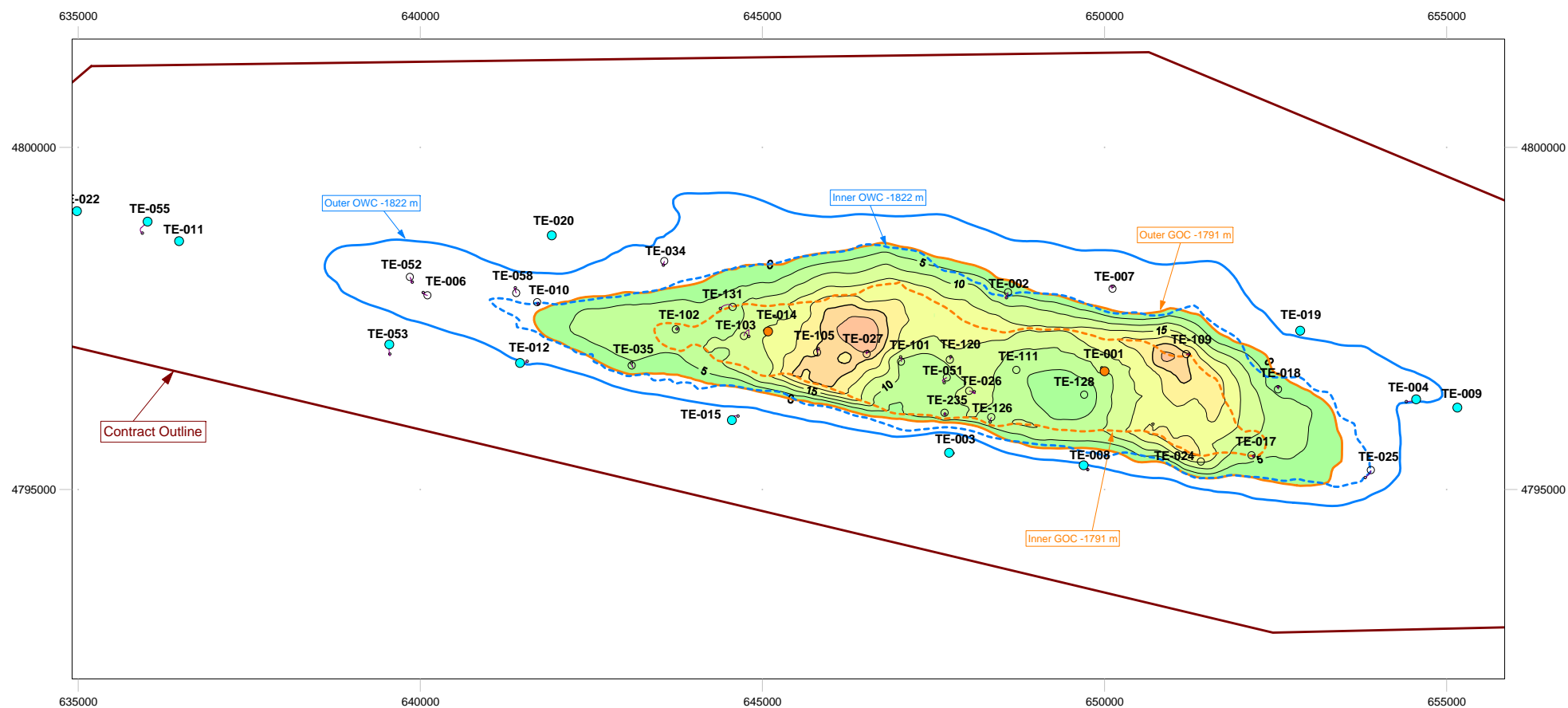
| | | |
|---|----------------|-------------|
|  | | |
| <p>Tenge JV Tenge Field - Kazakhstan Net Oil Thickness Map 18b Sand</p> | | |
| <mba> | Units – meters | 4 May, 2011 |

Figure 6



| Well Legend | Map Abbreviations |
|-------------------|-------------------------|
| ● Oil producer | OWC - Oil Water Contact |
| ● Oil tested | GOC - Gas Oil Contact |
| ● Gas tested | LKO - Lowest Known Oil |
| ○ Oil and gas | |
| ● No hydrocarbons | |



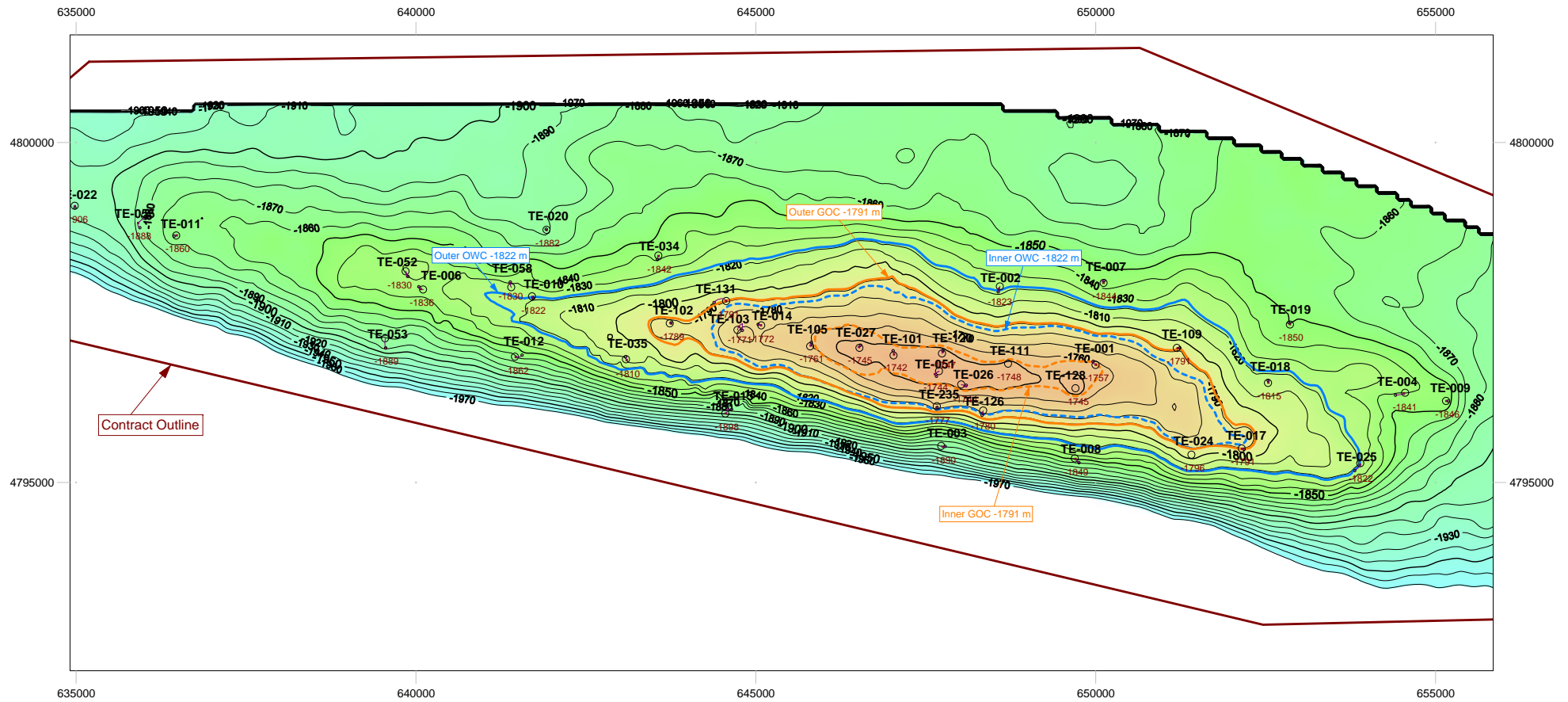


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Tenge JV
Tenge Field - Kazakhstan
Net Gas Thickness Map
18b Sand

<mba>
Units – meters
4 May, 2011

Figure 7

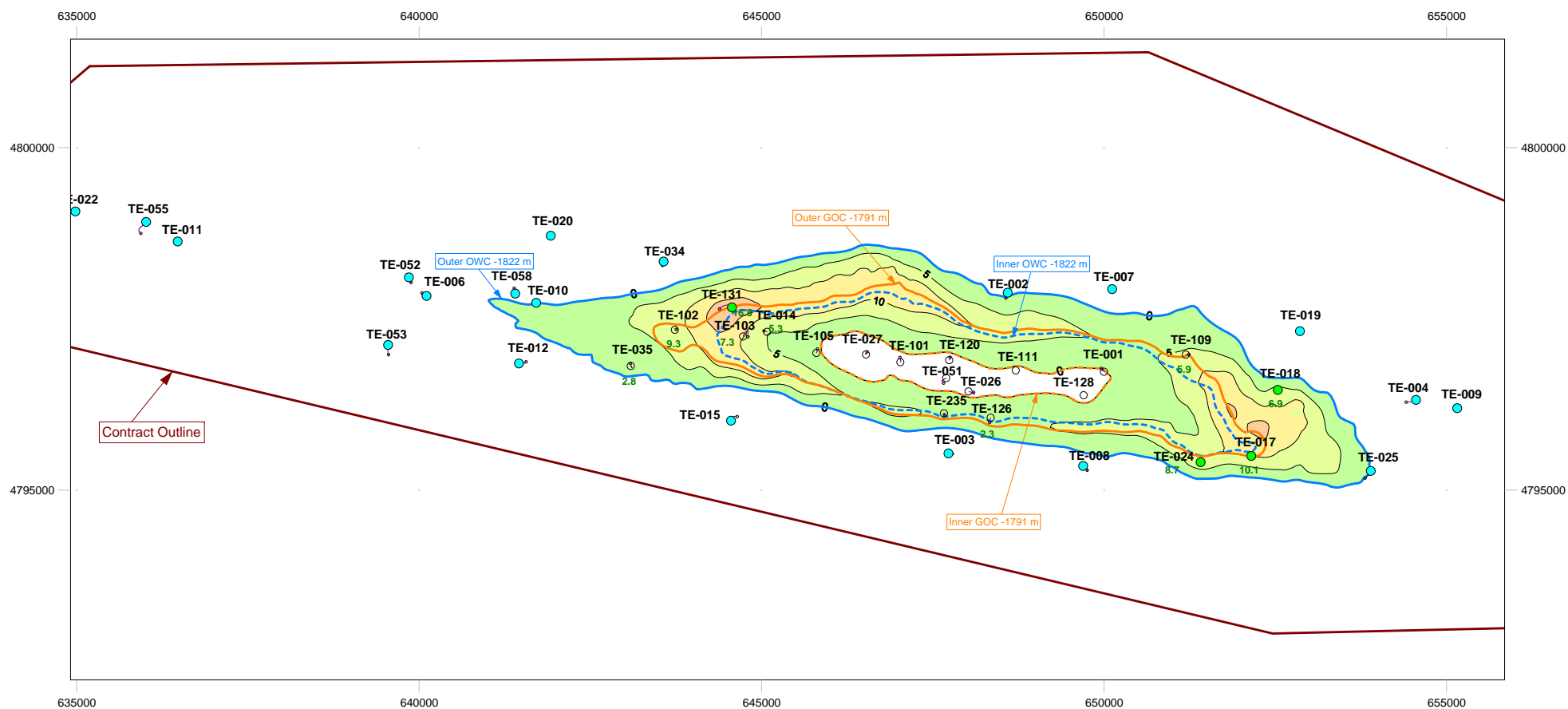


| Legend | |
|--------|---------------------|
| OWC | - Oil Water Contact |
| GOC | - Gas Oil Contact |
| LKO | - Lowest Known Oil |
| ○ | - Drilled well |



| | | |
|---|----------------|-------------|
|  | | |
| <p>Tenge JV Tenge Field - Kazakhstan Top Structure Map 18c Sand</p> | | |
| <mba> | Units – meters | 4 May, 2011 |

Figure 8



| Well Legend | Map Abbreviations |
|-------------------|-------------------------|
| ● Oil producer | OWC - Oil Water Contact |
| ● Oil tested | GOC - Gas Oil Contact |
| ● Gas tested | LKO - Lowest Known Oil |
| ○ Oil and gas | |
| ● No hydrocarbons | |



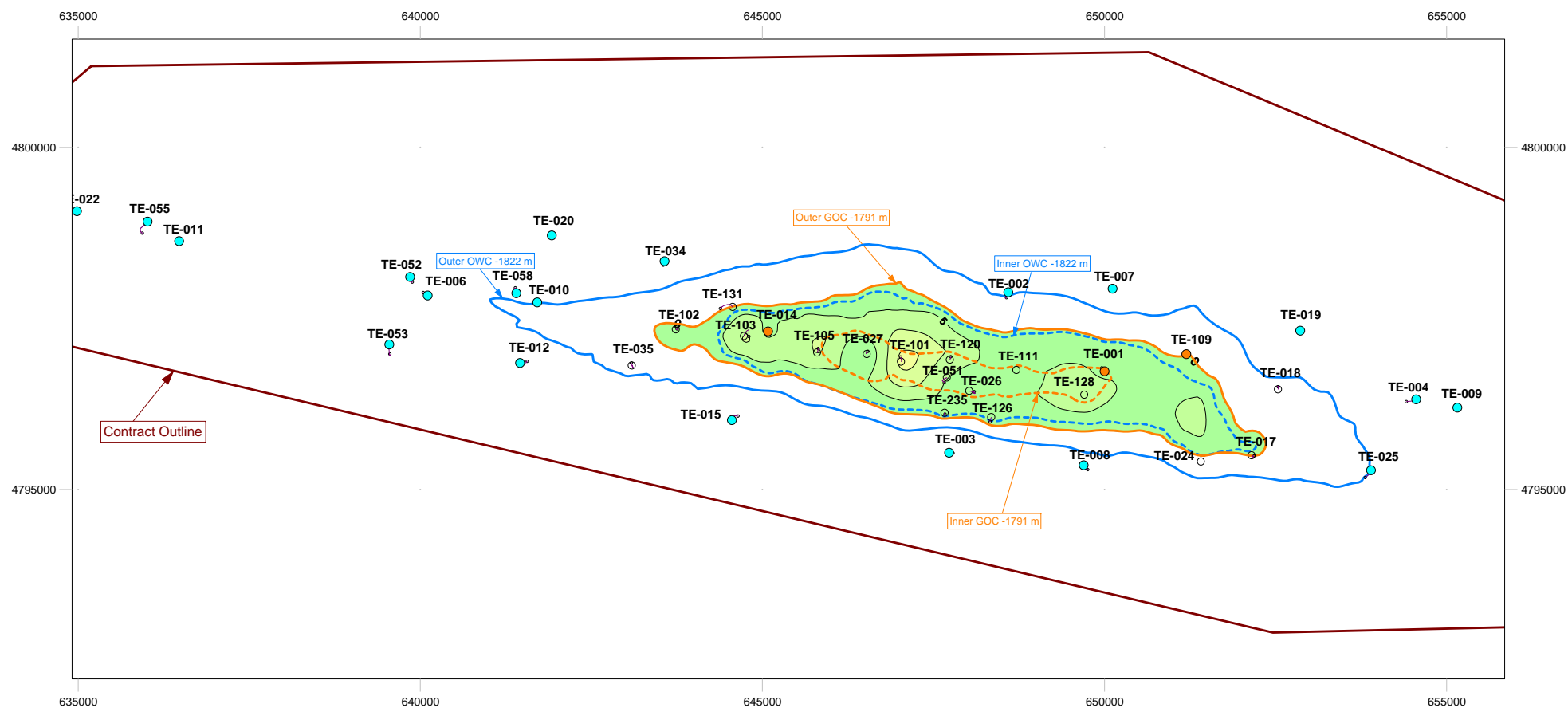


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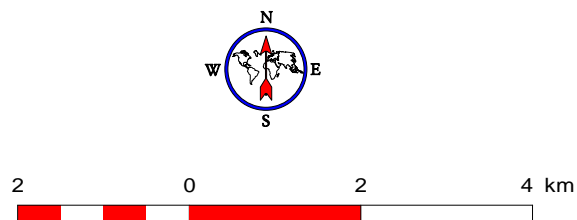
Tenge JV
Tenge Field - Kazakhstan
Net Oil Thickness Map
18c Sand


<mba>
Units – meters
4 May, 2011

Figure 9



| Well Legend | Map Abbreviations |
|-------------------|-------------------------|
| ● Oil producer | OWC - Oil Water Contact |
| ● Oil tested | GOC - Gas Oil Contact |
| ● Gas tested | LKO - Lowest Known Oil |
| ○ Oil and gas | |
| ● No hydrocarbons | |



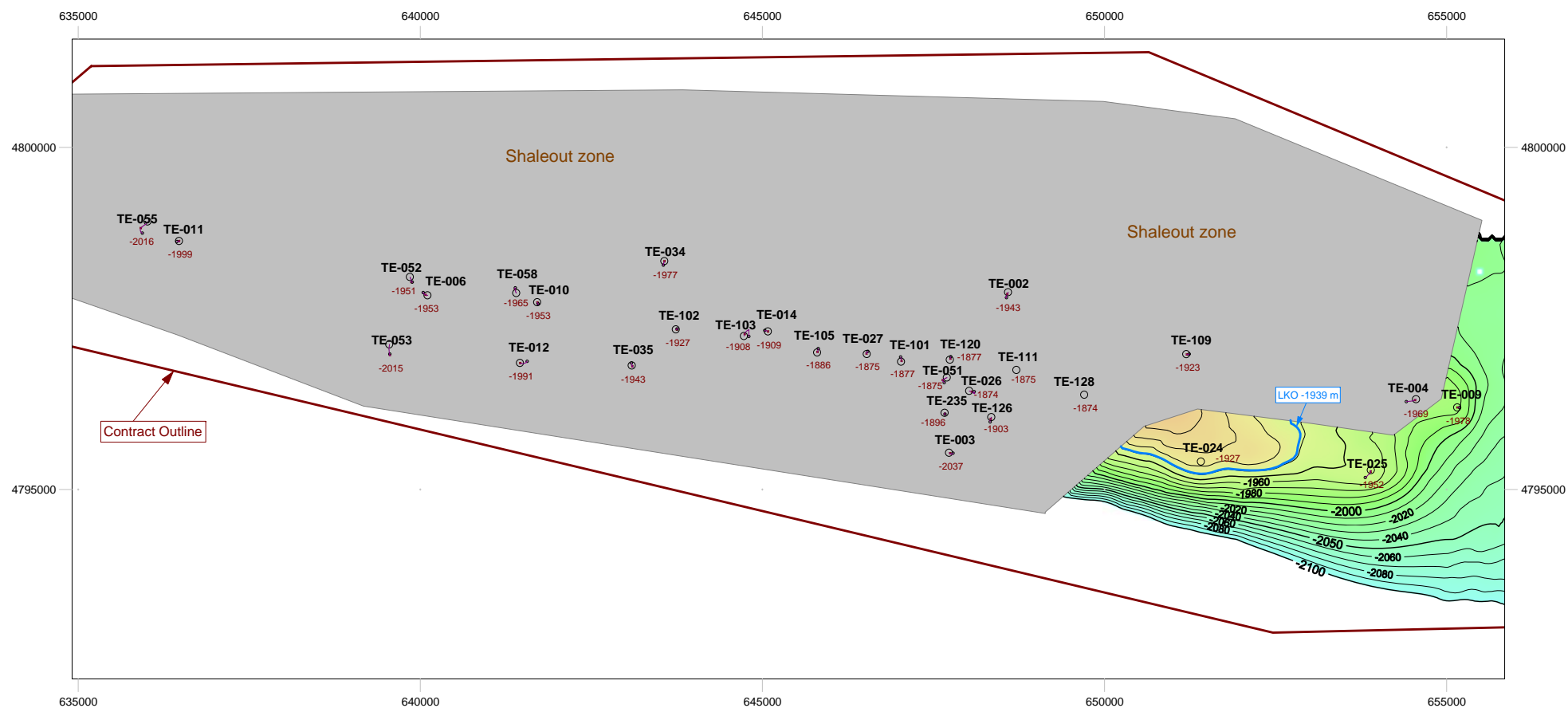


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Tenge JV
Tenge Field - Kazakhstan
Net Gas Thickness Map
18c Sand

<mba>
Units – meters
4 May, 2011

Figure 10

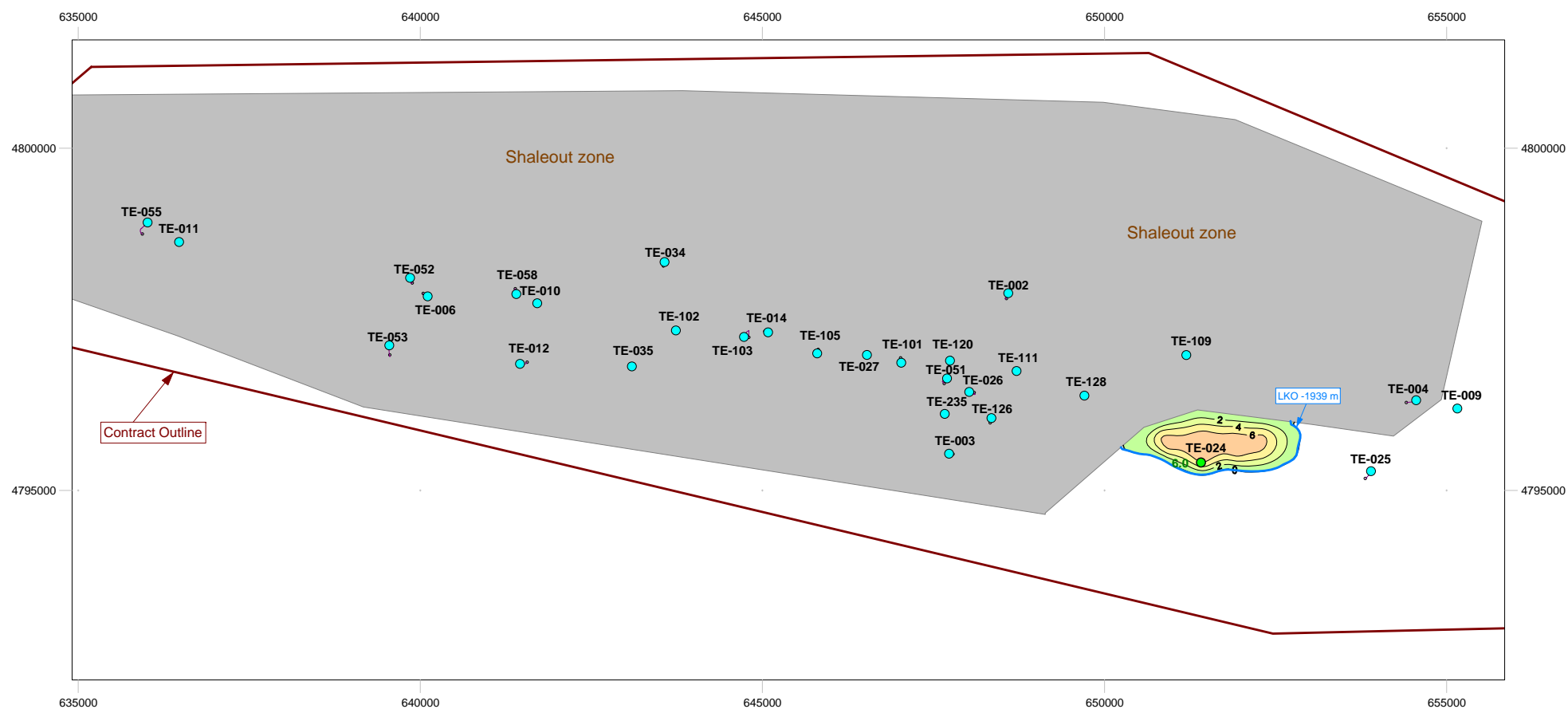


| Legend | |
|--------|---------------------|
| OWC | - Oil Water Contact |
| GOC | - Gas Oil Contact |
| LKO | - Lowest Known Oil |
| ○ | - Drilled well |



| | | |
|---|----------------|-------------|
| | | |
| <p>Tenge JV Tenge Field - Kazakhstan Top Structure Map 21a Sand</p> | | |
| <mba> | Units – meters | 4 May, 2011 |

Figure 11

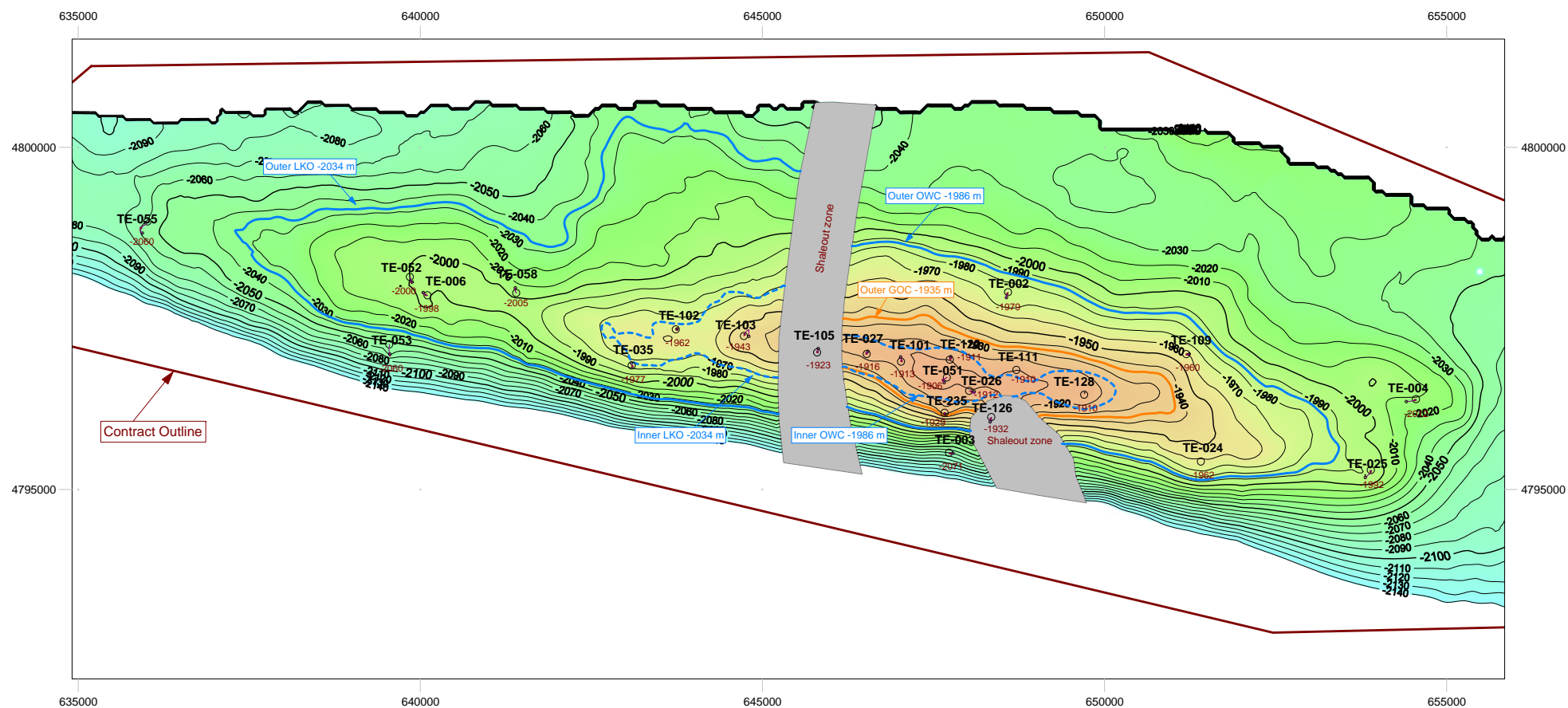


| Well Legend | Map Abbreviations |
|-------------------|-------------------------|
| ● Oil producer | OWC - Oil Water Contact |
| ● Oil tested | GOC - Gas Oil Contact |
| ● Gas tested | LKO - Lowest Known Oil |
| ○ Oil and gas | |
| ● No hydrocarbons | |



| | | |
|---|----------------|-------------|
| | | |
| <p>Tenge JV Tenge Field - Kazakhstan Net Oil Thickness Map 21a Sand</p> | | |
| <mba> | Units – meters | 4 May, 2011 |

Figure 12

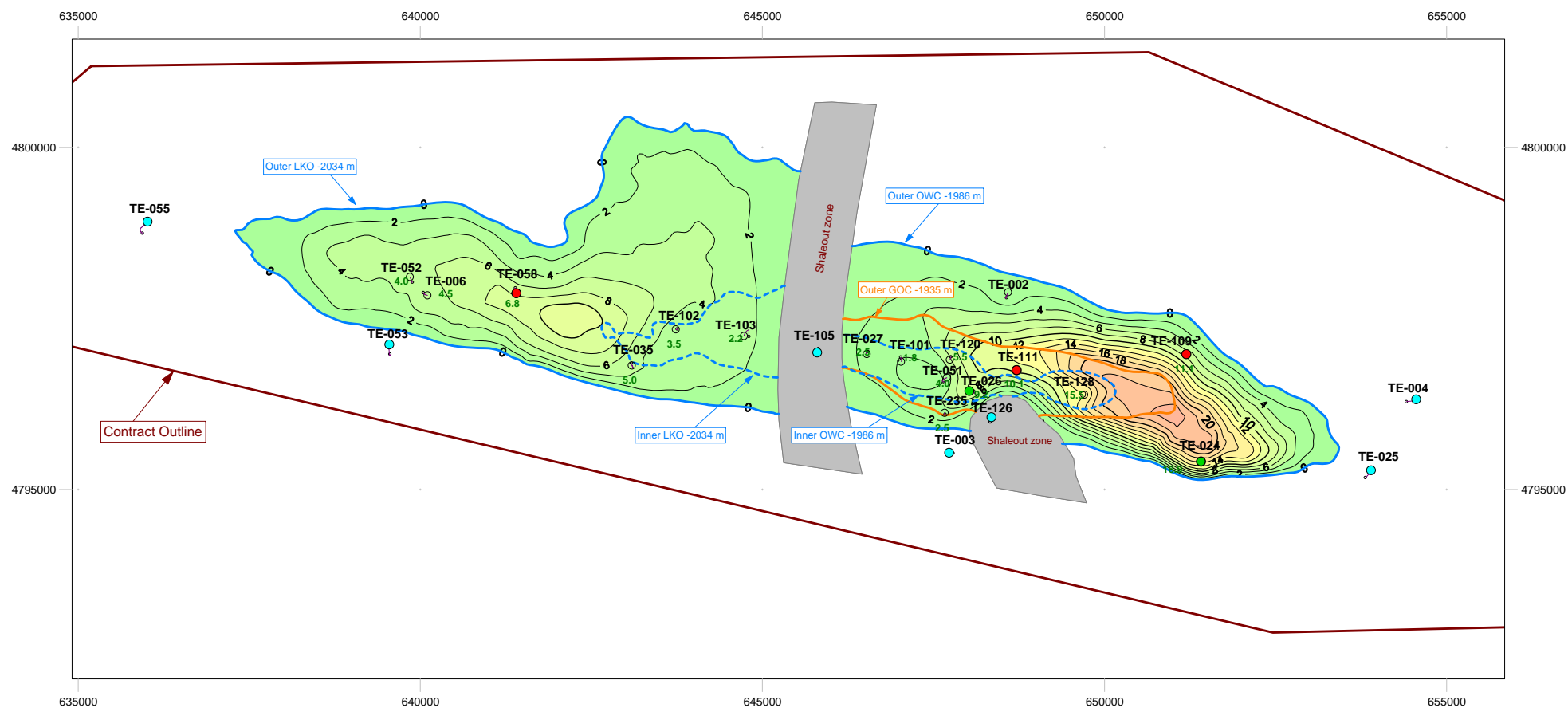


| Legend | |
|--------|---------------------|
| OWC | - Oil Water Contact |
| GOC | - Gas Oil Contact |
| LKO | - Lowest Known Oil |
| ○ | - Drilled well |

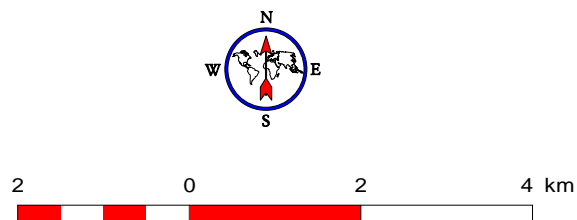


| | | |
|---|----------------|-------------|
| | | |
| <p>Tenge JV Tenge Field - Kazakhstan Top Structure Map 21b-c Sand</p> | | |
| <mba> | Units – meters | 4 May, 2011 |

Figure 13



| Well Legend | Map Abbreviations |
|--|--|
| <ul style="list-style-type: none"> Oil producer Oil tested Gas tested Oil and gas No hydrocarbons | <ul style="list-style-type: none"> OWC - Oil Water Contact GOC - Gas Oil Contact LKO - Lowest Known Oil |



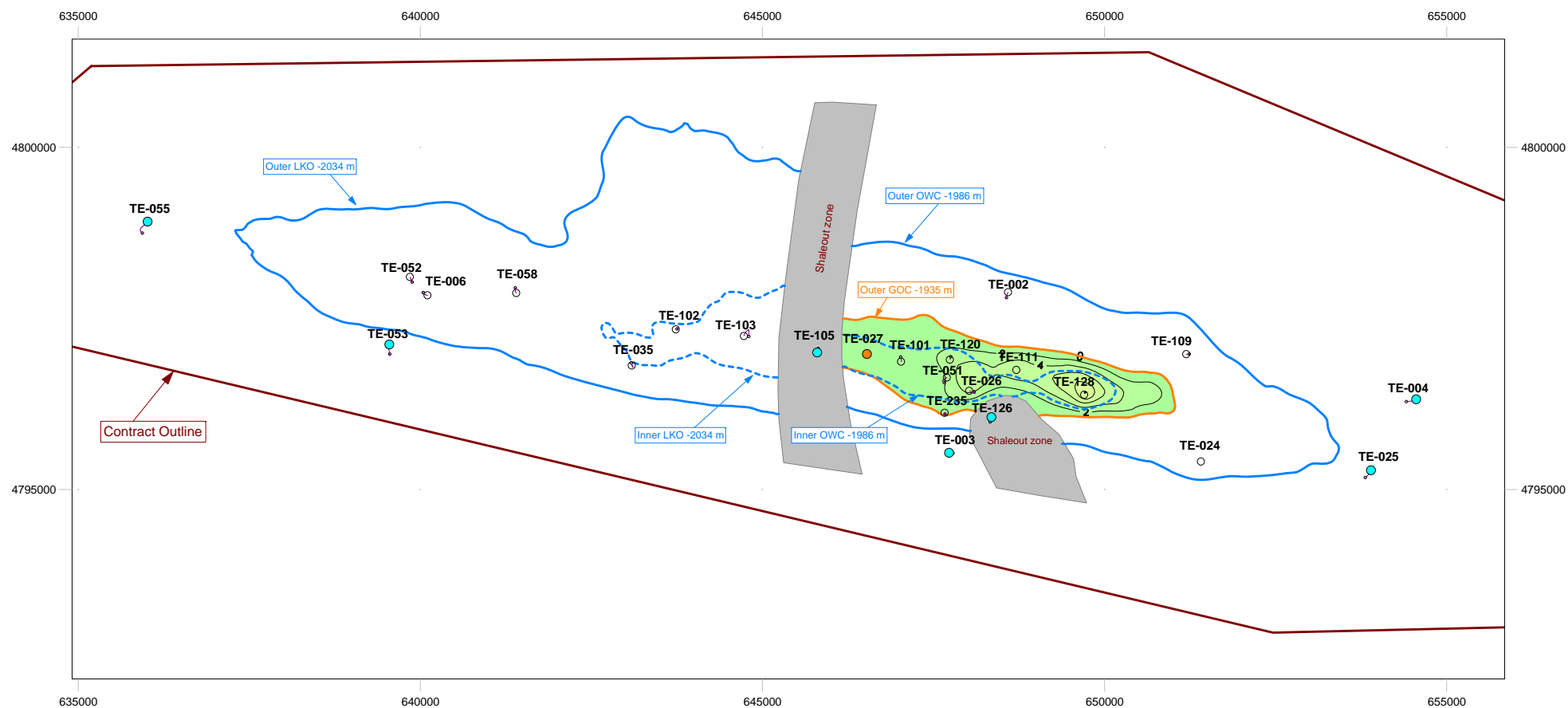


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Tenge JV
Tenge Field - Kazakhstan
Net Oil Thickness Map
21b-c Sand

<mba>
Units – meters
4 May, 2011

Figure 14

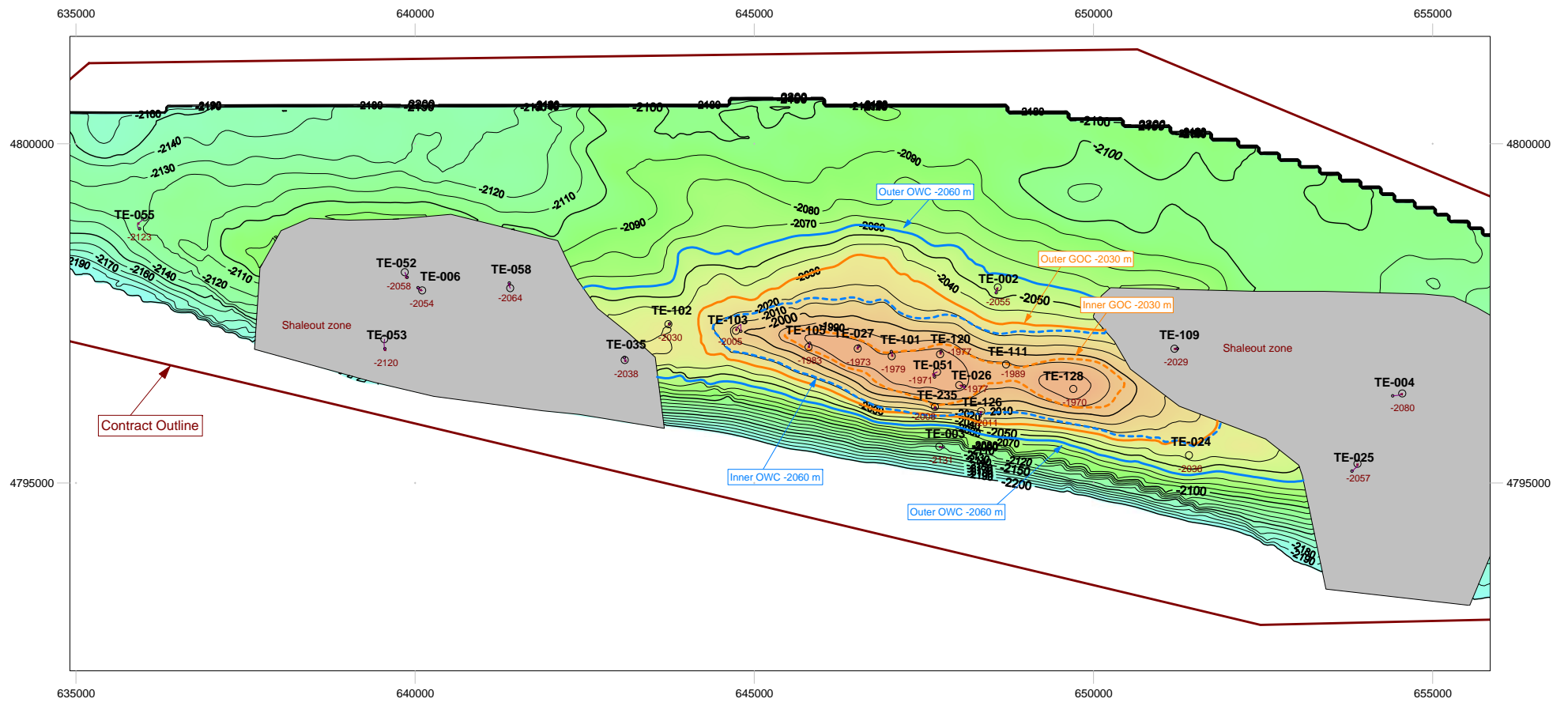


| Well Legend | Map Abbreviations |
|-------------------|-------------------------|
| ● Oil producer | OWC - Oil Water Contact |
| ● Oil tested | GOC - Gas Oil Contact |
| ● Gas tested | LKO - Lowest Known Oil |
| ○ Oil and gas | |
| ● No hydrocarbons | |



| | | |
|---|----------------|-------------|
| | | |
| <p>Tenge JV Tenge Field - Kazakhstan Net Gas Thickness Map 21b-c Sand</p> | | |
| <mba> | Units – meters | 4 May, 2011 |

Figure 15

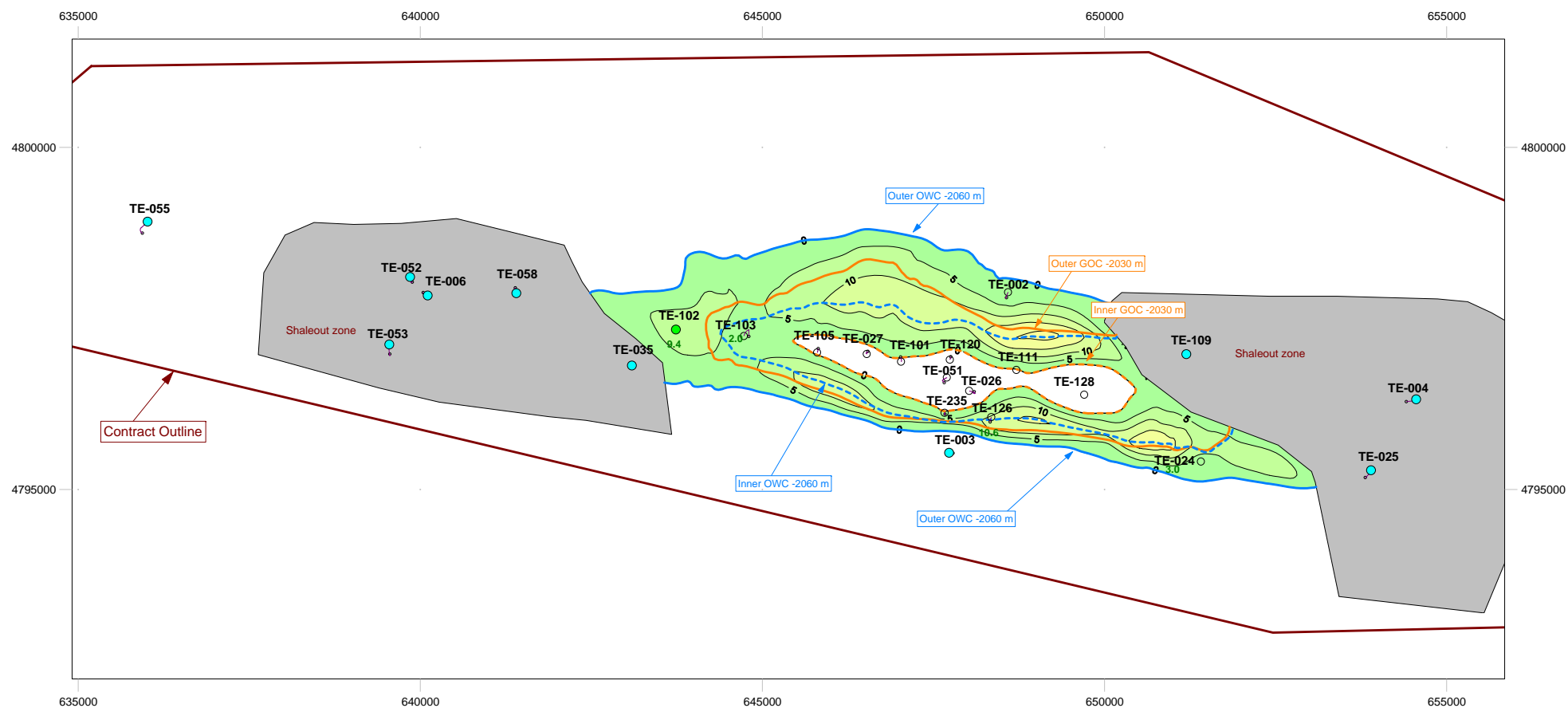


| Legend | |
|--------|---------------------|
| OWC | - Oil Water Contact |
| GOC | - Gas Oil Contact |
| LKO | - Lowest Known Oil |
| ○ | - Drilled well |



| | | |
|---|----------------|-------------|
| | | |
| <p>Tenge JV Tenge Field - Kazakhstan Top Structure Map 22a Sand</p> | | |
| <mba> | Units – meters | 4 May, 2011 |

Figure 16



| Well Legend | Map Abbreviations |
|-------------------|-------------------------|
| ● Oil producer | OWC - Oil Water Contact |
| ● Oil tested | GOC - Gas Oil Contact |
| ● Gas tested | LKO - Lowest Known Oil |
| ○ Oil and gas | |
| ● No hydrocarbons | |



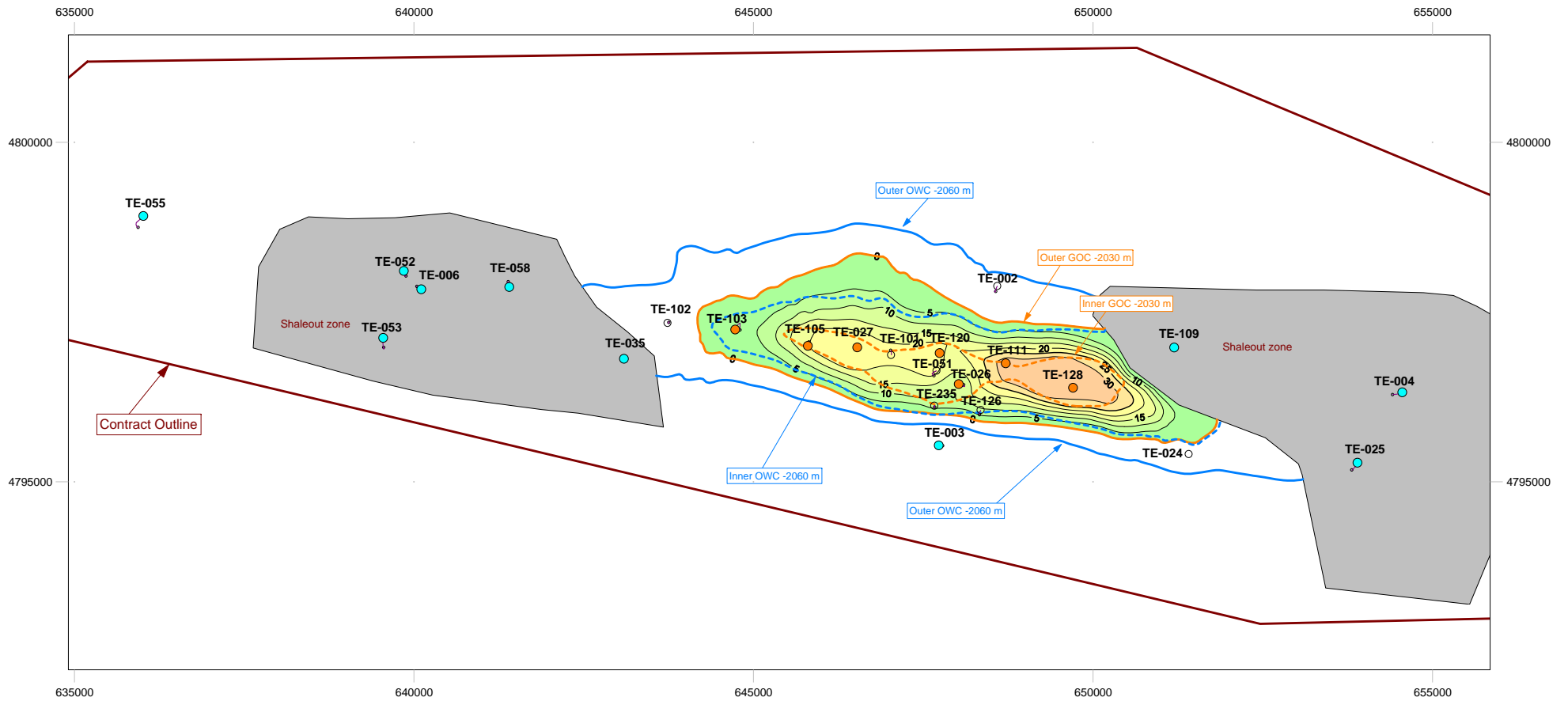


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Tenge JV
Tenge Field - Kazakhstan
Net Oil Thickness Map
22a Sand

<mba>
Units – meters
4 May, 2011

Figure 17

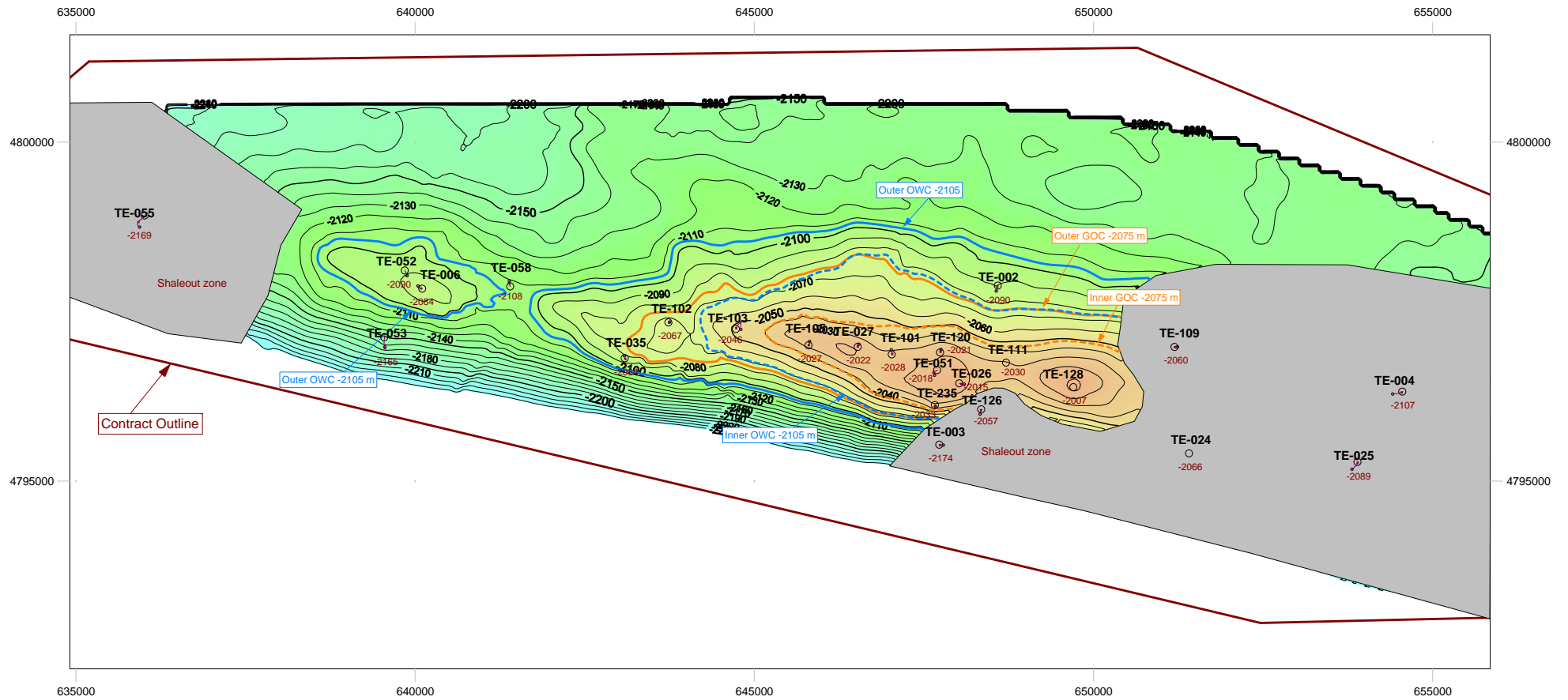


| Well Legend | Map Abbreviations |
|-------------------|-------------------------|
| ● Oil producer | OWC - Oil Water Contact |
| ● Oil tested | GOC - Gas Oil Contact |
| ● Gas tested | LKO - Lowest Known Oil |
| ○ Oil and gas | |
| ● No hydrocarbons | |



| | | |
|---|----------------|-------------|
| | | |
| <p>Tenge JV Tenge Field - Kazakhstan Net Gas Thickness Map 22a Sand</p> | | |
| <mba> | Units – meters | 4 May, 2011 |

Figure 18

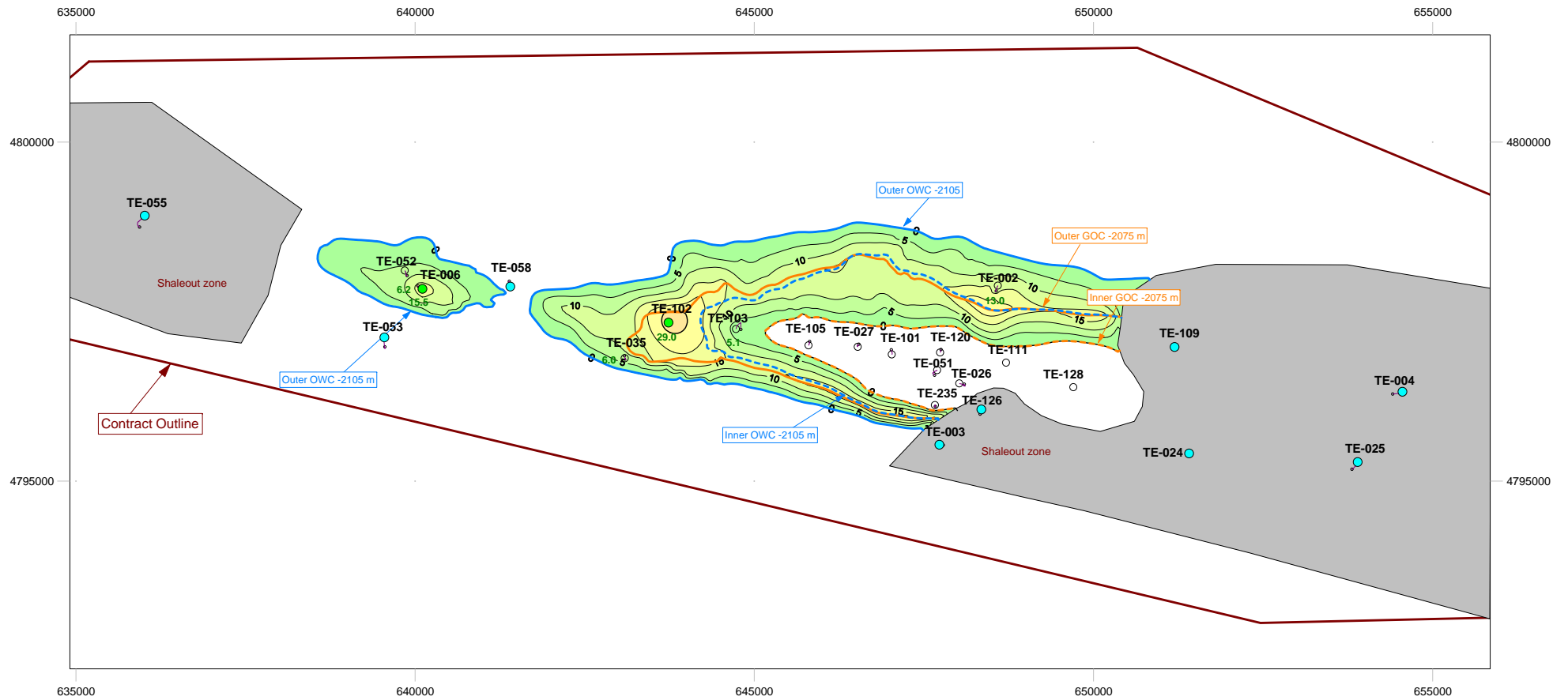


| Legend | |
|--------|---------------------|
| OWC | - Oil Water Contact |
| GOC | - Gas Oil Contact |
| LKO | - Lowest Known Oil |
| ○ | - Drilled well |

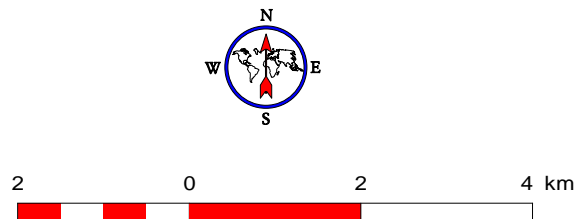



| | | |
|---|----------------|-------------|
| | | |
| <p>Tenge JV Tenge Field - Kazakhstan Top Structure Map 22b Sand</p> | | |
| <mba> | Units – meters | 4 May, 2011 |

Figure 19



| Well Legend | Map Abbreviations |
|-------------------|-------------------------|
| ● Oil producer | OWC - Oil Water Contact |
| ● Oil tested | GOC - Gas Oil Contact |
| ● Gas tested | LKO - Lowest Known Oil |
| ○ Oil and gas | |
| ● No hydrocarbons | |



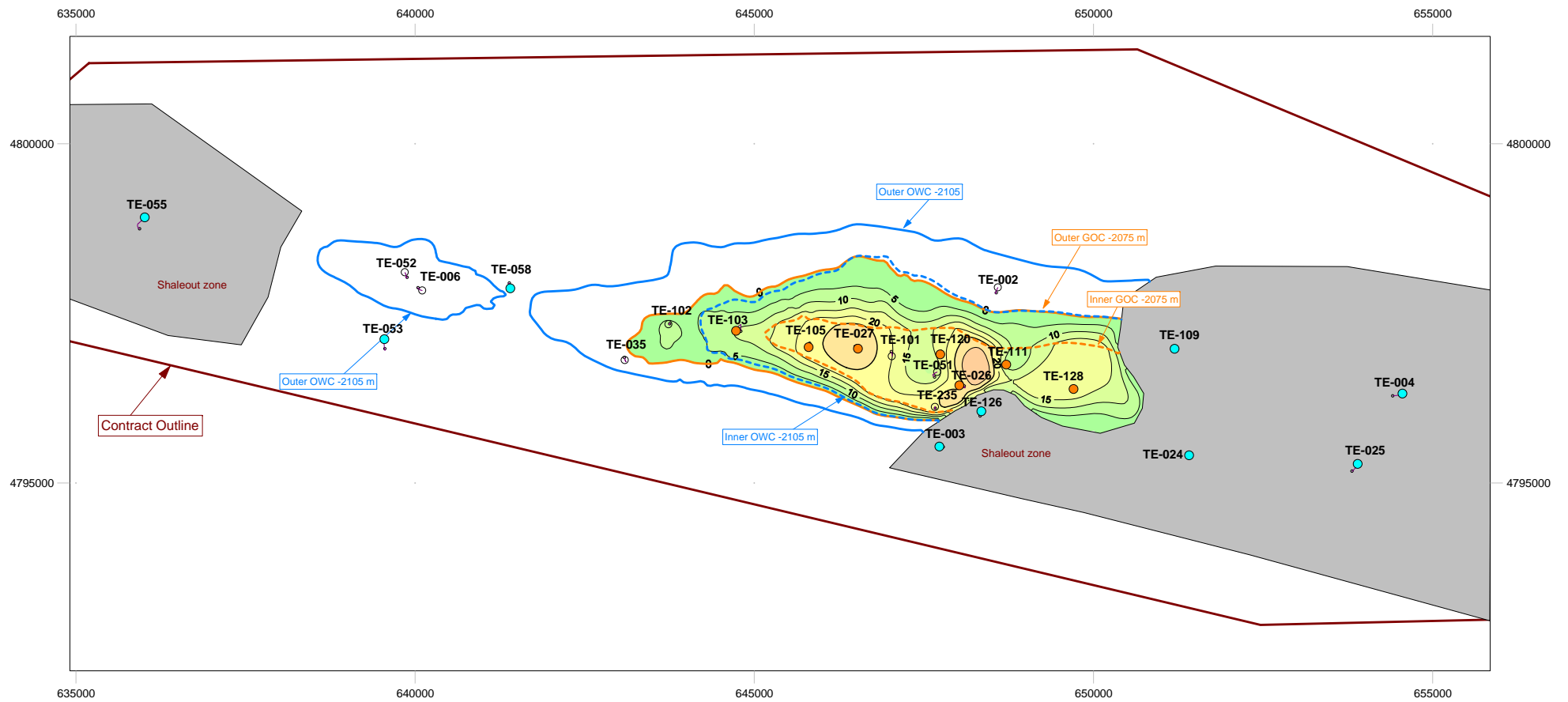


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& Associates Consultants Ltd.

Tenge JV
Tenge Field - Kazakhstan
Net Oil Thickness Map
22b Sand


<mba>
Units – meters
4 May, 2011

Figure 20



| Well Legend | Map Abbreviations |
|-------------------|-------------------------|
| ● Oil producer | OWC - Oil Water Contact |
| ● Oil tested | GOC - Gas Oil Contact |
| ● Gas tested | LKO - Lowest Known Oil |
| ○ Oil and gas | |
| ● No hydrocarbons | |



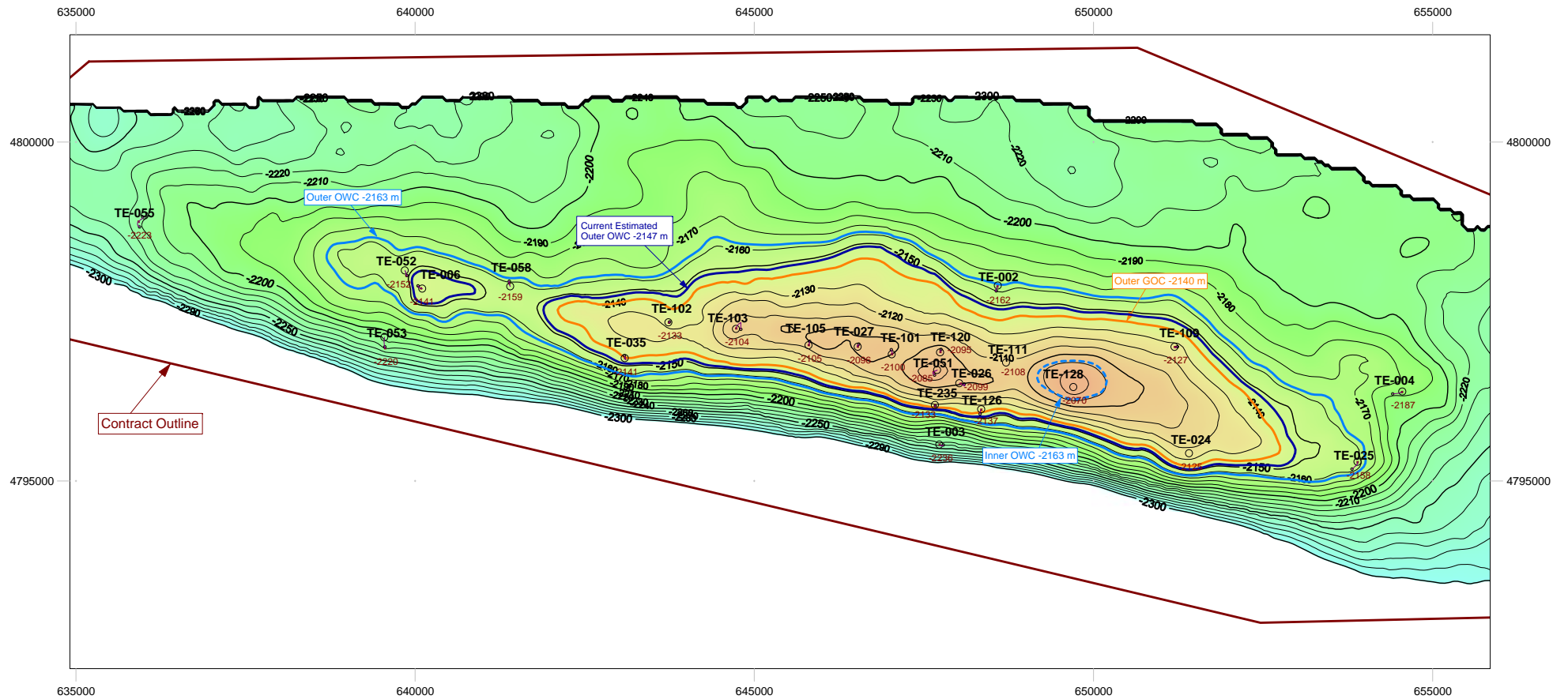


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& Associates Consultants Ltd.

Tenge JV
Tenge Field - Kazakhstan
Net Gas Thickness Map
22b Sand

<mba>
Units – meters
4 May, 2011

Figure 21

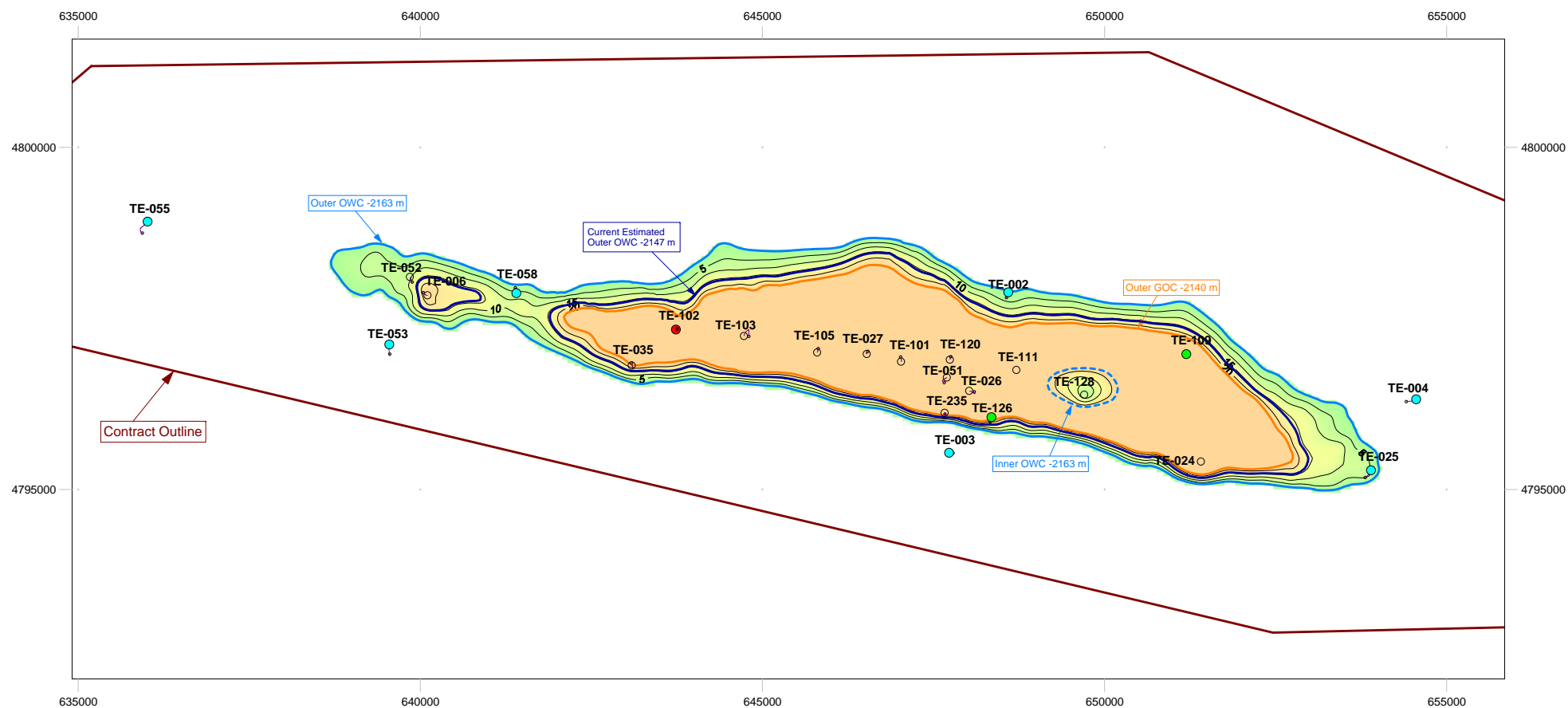


| Legend | |
|--------|---------------------|
| OWC | - Oil Water Contact |
| GOC | - Gas Oil Contact |
| LKO | - Lowest Known Oil |
| ○ | - Drilled well |



| | | |
|--|----------------|-------------|
| | | |
| <p>Tenge JV Tenge Field - Kazakhstan Top Structure Map 23 Sand</p> | | |
| <mba> | Units – meters | 4 May, 2011 |

Figure 22

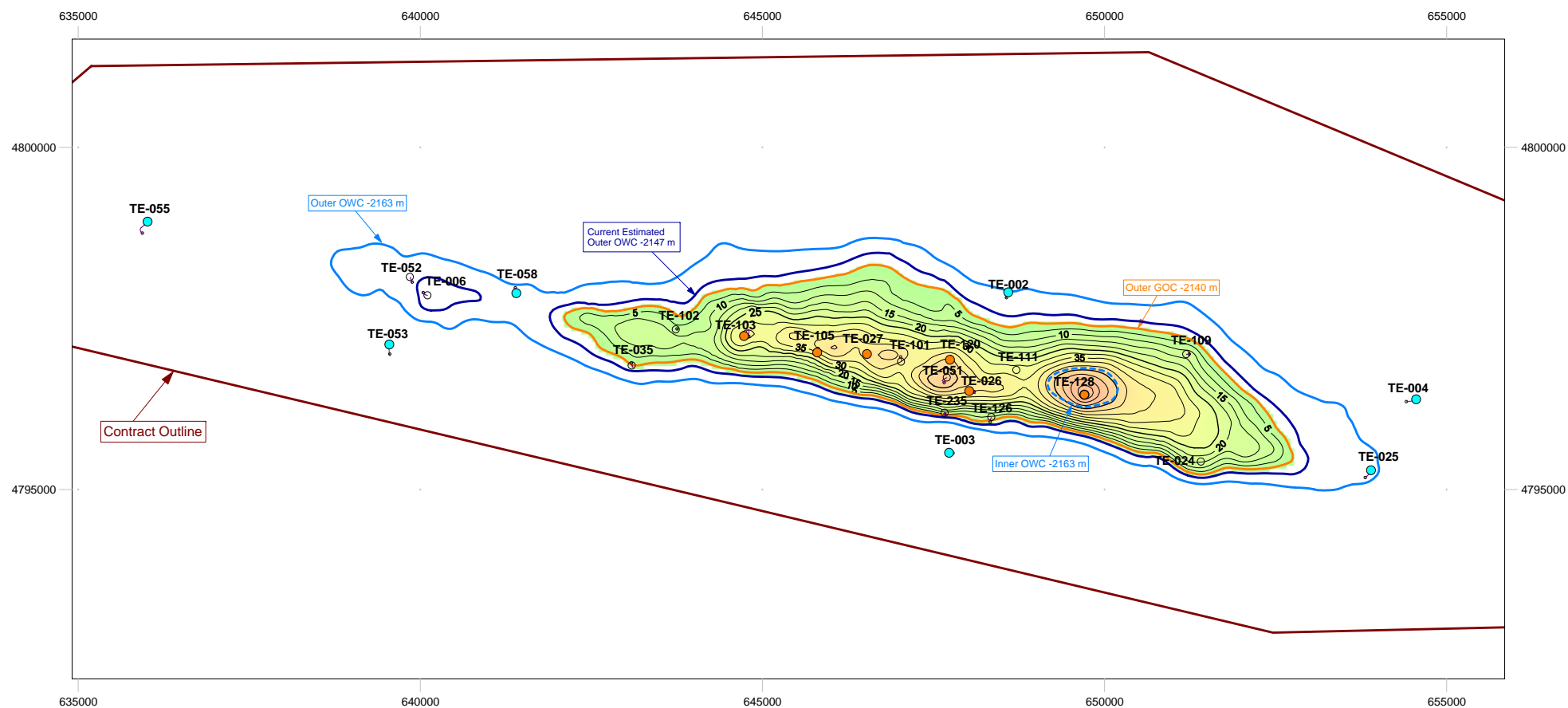


| Well Legend | Map Abbreviations |
|-------------------|-------------------------|
| ● Oil producer | OWC - Oil Water Contact |
| ● Oil tested | GOC - Gas Oil Contact |
| ● Gas tested | LKO - Lowest Known Oil |
| ○ Oil and gas | |
| ● No hydrocarbons | |



| | | |
|--|----------------|-------------|
| | | |
| <p>Tenge JV Tenge Field - Kazakhstan Gross Oil Thickness Map 23 Sand</p> | | |
| <mba> | Units – meters | 4 May, 2011 |

Figure 23



| Well Legend | Map Abbreviations |
|-------------------|-------------------------|
| ● Oil producer | OWC - Oil Water Contact |
| ● Oil tested | GOC - Gas Oil Contact |
| ● Gas tested | LKO - Lowest Known Oil |
| ○ Oil and gas | |
| ● No hydrocarbons | |



| | | |
|--|----------------|-------------|
| | | |
| <p>Tenge JV Tenge Field - Kazakhstan Gross Gas Thickness Map 23 Sand</p> | | |
| <mba> | Units – meters | 4 May, 2011 |

Tenge Field
Total Field Production History / Forecast
100 Percent Working Interest Before Royalty

