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SHEBERGHAN GAS GENERATION ACTIVITY (SGGA)

Contract No. EPP-I-00-03-00004-00, USAID Task Order No. AID-306-TO-12-00002

SGGA Monthly Report on Data Collection Progress

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Acronyms and Abbreviations

AEAI	Advanced Engineering Associates International, Inc.
AGE	Afghan Gas Enterprise
AGS	Afghan Geological Survey
APA	Afghanistan Petroleum Authority
MoMP	Ministry of Mines and Petroleum
OGS	Oil and Gas Survey
PRMS	Petroleum Resources Management System
RFP	Request for Proposals
SGGA	Sheberghan Gas Generation Activity
SPE	Society of Petroleum Engineers
USAID	United States Agency for International Development

1 INTRODUCTION

- This Monthly Data Collection Progress Report of the USAID-funded Sheberghan Gas Generation Activities (SGGA) program, of which Advanced Engineering Associates International, Inc. (AEAI) is the prime contractor, covers the period November 1, 2015 through November 30, 2015. The report is submitted as a Project Deliverable under Section F.5, Deliverable 13 of Modification 6 to Task Order AID-306-TO-12-00002 of Contract Number AID-EPP-I-00-03-00004.

2 BACKGROUND AND SUMMARY

- USAID, through AEAI, intends to fund preparation of reserve estimates based on existing data for up to seven natural gas fields in the Sheberghan area of northern Afghanistan. The seven fields, all of which are located in Jawzjan Province in the Amu Darya Basin, are:
 - Gerquduq
 - Khoja Gogerdak
 - Yatimtaq
 - Jangl-e-Kalan
 - Shahkarak
 - Chekh Che
 - Khoja Bolan

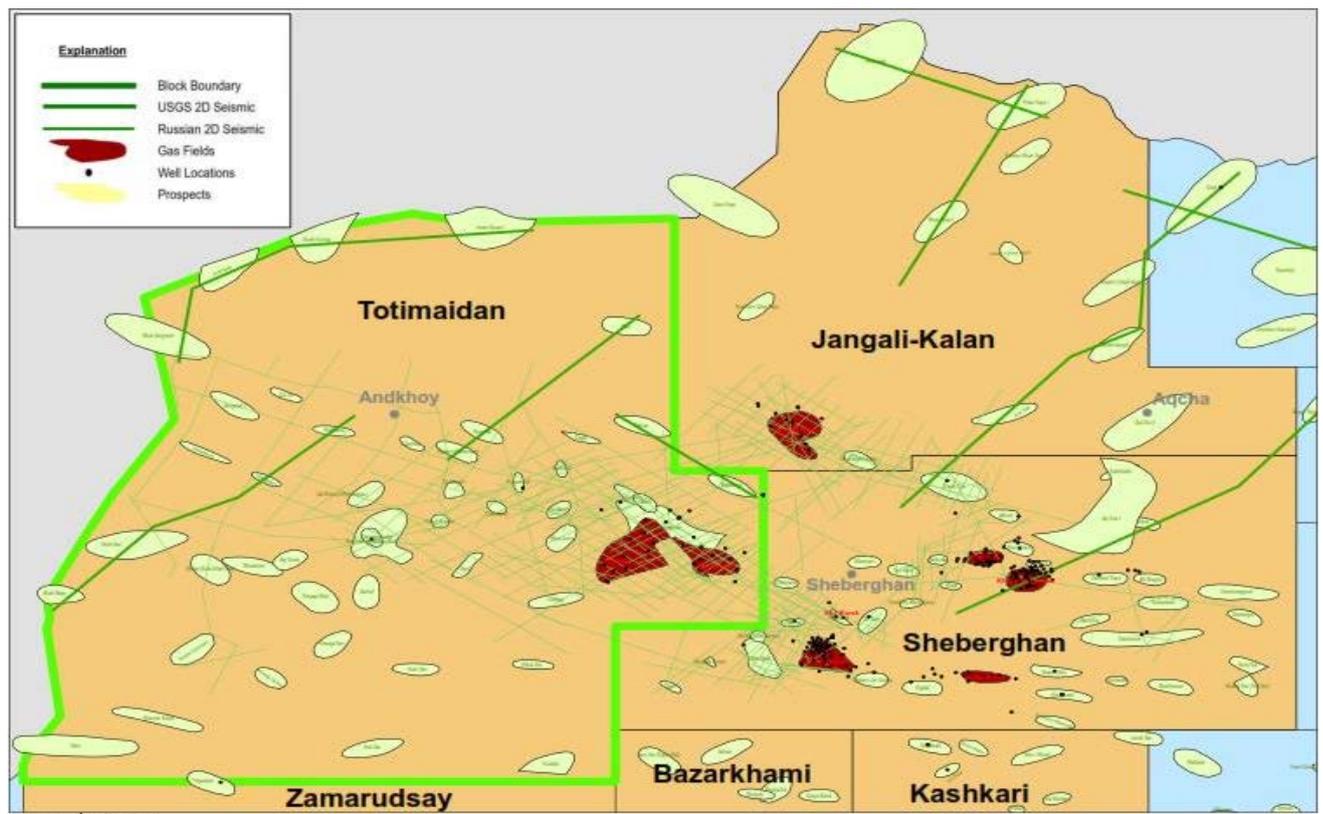
The fields are State-owned and controlled by the Ministry of Mines and Petroleum (MoMP). The general field locations are shown on the area map in Figure 1.

- **Available Data:** The available field and well data include geological, geophysical, and well data (e.g., electric logs, driller's logs, initial test data, and production data) from the records of the Ministry and its operating divisions, and the Afghanistan Geological Survey. The bulk of the materials were produced by Soviet State companies or during the Soviet occupation period. Except for some notations in Dari, the materials are in the Russian language. In addition to these pre-1989 documents, well test reports are available in English from a 2013 re-entry program for four wells in the Yatimtaq and four wells in the Gerquduq Fields.

Not all of the data is in usable digital formats, and the subcontractor should plan on having qualified personnel inspect the original records at the Ministry's offices in Kabul and Sheberghan. In addition, Afghan engineers and other professionals who worked on the original Soviet drilling and production operations will be available to provide additional information. These individuals speak Russian and are familiar with Soviet-era oil field terminology and practices.

- **Date Evaluation and Reserve Estimate:** The data evaluation and reserve estimates will be used by the Government of the Islamic Republic of Afghanistan in efforts to attract private investment for the development of central gas gathering and processing facilities and for the development of gas-fired electrical generation facilities in Jawzjan Province, near the city of Sheberghan.
- **Need for Reserve Estimate:** Reserve estimates are needed for the fields to attract private investment for the development of central gas gathering and gas processing facilities and for the development of a proposed 200 MW gas-fired electrical generation facility near the city of Sheberghan. Additionally, a 50 MW gas-fired power plant may be constructed at Mazar-e-Sharif and supplied from the fields.

Figure 1 - Sheberghan Areas Blocks - Known Fields, Structures, and Seismic



3 ACHIEVEMENTS/ACTIVITIES

- Issued a Request for Proposal (RFP) to enlist the services of a qualified engineering firm (i) to evaluate the existing geological, geophysical and well data for the fields and (ii) to prepare the reserve estimates using the existing data to meet those internationally accepted concepts and standards, if the available data is sufficient.
- Completed organization of the voluminous data collected on the seven gas fields for which reserve estimates will be sought. Also prepared a brief preliminary draft description of the documents to be made available to the short-listed international engineering firms to which the RFP will be sent in order for them to develop a cost and time proposal for data evaluation and reserve estimation.

4 MEETINGS

- None

5 CHALLENGES

- Organizing and describing the Russian documents (which constitute the bulk of the available data) has proven to be a challenging and very time consuming process, but has nearing completion.

6 PLANS FOR NEXT MONTH

- Evaluate the proposals received
- Award the subcontract to the eligible and qualified winning bidder