

**TASK ORDER WORK STATEMENT  
MONTANA OIL AND GAS CONVERSION**

**1. GENERAL**

**1.1 Background**

The Bureau of Land Management (BLM) requires contractor support for the automated production of oil and gas field maps.

**1.2 Purpose**

Support shall primarily consist of converting the existing BLM MT Oil and Gas program from UNIX to NT and ArcGIS 8.1.

**2. PERFORMANCE REQUIREMENTS**

**2.1 Description of Work**

- 1.1 The application must be converted from Unix to NTs without an emulator.
- 1.2 The Task Manager will supply the contractor with examples of output maps, existing standards, existing INFORMIX database, oil and gas spatial data, GCDB data, existing programs and documentation.
- 1.3 The Contractor shall take an existing INFORMIX database, 4GL data entry screens and ESRI plot AML and rewrite the application to utilize, INFORMIX, SDE and ArcGIS 8.1. The Contractor shall:
  - 3.1 Modify input 4GL input screens for the Wells Informix database to run in Arc/Info 8.1.
  - 3.2 Modify the database structure. The fields in database will be reduced to only those required to maintain the automated field map product.
  - 3.3 Rewrite GGWL.aml in visual basic to create well theme. This program generates a well theme based on the footage locations within the INFORMIX database. It must use GCDB as the public land survey theme to generate the well form.
  - 3.4 Create a template in ArcMap for a one township map @ 1:24,000. This must include standard colors and line types.
  - 3.5 Rewrite all the lookup tables that have been created for each coverage.
  - 3.6 Create a template in ArcMap for a 4 township map @ 1:24,000.
  - 3.7 Create a template in ArcMap for a 6 township map @ 1:36,000.
  - 3.8 Rewrite Plotone.aml in visual basic to run at the Arc prompt in Workstation ArcInfo 8.1. Field offices will need to learn to reprogram the new script files in order to make modifications to various maps.

- 3.9 Program the application for 4 township map and 6 township map that users can use and modify at the Arc prompt.
- 3.10 Rewrite Plotone.aml to include additional coverages - lakes, streams, transportation with routes, surface ownerships, and boundaries like WSA, Indian reservations, wildlife refuges, counties, etc.
- 3.11 Connect the well symbol legend to the final status field so that only those well status-s that appear on the map will be in the legend.
- 3.12 Develop a new data model if regions will no longer be used. Regions are currently used to deal with overlapping fields, unit, etc.
- 3.13 Utilize overpost capabilities in ArcGIS 8.1 that were previously available. Must develop the capability to move all map labels from each coverage on the layout to correct any labels that still overlap or to move them to a better location.
- 3.14 Ensure the capability to retain the label position it had been moved to on a previous map when recreating a new version of the map.
- 3.15 Ensure the capability to create line symbols for horizontal wells that extend outside of the map extent. (When the 2<sup>nd</sup> or 3<sup>rd</sup> well points are in an adjacent township not plotted on the map.) The converted software must be capable of retaining any lines added to the plot when recreating a new version of the map.
- 3.16 Allow the user to select how many lines of the well label (if any) would be displayed on an output map.

**2.2 Required Skills and Knowledge**

- 2.1 A working knowledge of Informix, SDE, programming language, ArcGIS 8.1.
- 2.2 Experience in creating cartographic layouts in ArcGIS 8.1.
- 2.3 Follow existitng BLM MT Oil and Gas data standards.

**2.3 Place Of Performance**

Work shall be performed at the BLM, National Science and Technology Center located in Building 50 at the Denver Federal Center in Denver, Colorado or at BLM , Montana State Office, 5001 Southgate Drive, Billings, Montana 59101.

**4. Travel**

**The Government does not anticipate any travel will be required in support of this task o employee will be available for one on-site meeting to provide assistance with understand or existing data and application.**

**2.4 Performance Period**

The anticipated performance period will be from October 30, 2001 through January 30,

**3. DELIVERABLES**

**3.1 Specific Items To Be Delivered**

1.1 The Contractor shall deliver the finished input screen, format requirements, application programs Part II.A. Performance Requirements. All programs shall be completed and delivered by January 30, 2002.

1.2 The Contractor shall submit a weekly progress report including a short list of tasks completed. The report is due on every Tuesday for the previous week.

1.3 The Contractor shall present their time card to the BLM Task Manager for review and concurrence prior to submission to their employer.

**3.2 Format for Deliverables Including Media Type**

2.1 The Contractor shall submit programs completed in the media in which they were created.

2.2 The Contractor shall submit the progress and funding status reports electronically in WordPerfect or Microsoft Word format.

**3.3 Delivery Address and Instructions**

3.1 All deliverables shall be submitted to the Task Manager, Kathie Jewell, BLM, 5001 Southgate Drive, Billings, MT 59107

3.2 A transmittal letter shall be provided with every deliverable. The specific items delivered shall be itemized in this letter.

3.3 In addition, the Contractor shall forward a copy of each deliverable transmittal letter to the CO.

**4. GOVERNMENT POINTS OF CONTACT**

**4.1 Ordering Contracting Officer**

**Name: Elizabeth B. McDill**

**Agency/Address: Bureau of Land Management, BC-660**

**Bldg. 50, DFC, P.O. Box 25047**

**Denver, CO 80225**

**Phone Number: 303/236-0978**

**Fax Number: 303/236-9479**

**E-mail Address: [elizabeth\\_mcdill@blm.gov](mailto:elizabeth_mcdill@blm.gov)**

4.2 Task Order Manager (Government Technical Contact)  
**Name: Kathie Jewell**  
**Agency/Address: Bureau of Land Management, MT-926**  
**5001 Southgate Drive**  
**Billings, MT 59107**  
**Phone Number: (406) 896-5144**  
**Fax Number: (406) 896-5295**  
**E-mail Address: kjewell@blm.gov**