

**SUNEDCO COAL CO.**7401 W Mansfield Ave
Suite 418
Post Office Box 35B
Lakewood CO 80235
303 987 8720

September 9, 1985

Mr. Lowell Braxton
Coordinator
Utah Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180

RECEIVED**SEP 11 1985****DIVISION OF OIL
GAS & MINING**

RE: Soldier Canyon Mine
ACT/007/018; UT 0023

Dear Mr. Braxton:

Soldier Creek Coal Co., operators of Soldier Canyon Mine, was recently acquired by Sun Co., Inc. It is Sun's intent to increase the permit boundary of the mine to include property to the north and to the east of the present boundary. We understand that this action will require us to submit a new mine permit application; therefore, we have enclosed, for your review and comment, a copy of a request for proposal that has been sent to a number of potential consultants for response. Please send your comments to me at the above address.

Very truly yours,

A handwritten signature in black ink, appearing to read "Charlie Durrett", with a large, sweeping flourish extending to the right.

C. W. Durrett
Land & Permits

CWD/blb

Enclosure



SUNEDCO COAL CO.
7401 W Mansfield Ave
Suite 418
Post Office Box 35B
Lakewood CO 80235
303 987 8720

REQUEST FOR PROPOSAL

SOLDIER CANYON MINE

Sunedco Coal Co. (Sun) is in the process of expanding an underground coal mine located in the Book Cliffs approximately 22 miles northeast of Price, Carbon County, Utah. The present mine permit boundary (2,150.19 acres) will be enlarged (4905.19 acres) to include lands to the north and east (Exhibit 1). New data will have to be collected for land found in T 13 S, R 12 E SLM, sections 5 and 6 (557.20 acres). All surface disturbance necessary to construct surface facilities has occurred, and the land being added will only be affected by underground mining operations.

The present operation holds a 5-year term mining permit having an annual production rate of 820,000 tons. It is Sun's intent to change the permit to a life-of-mine term and an annual production rate of 1.5 million tons. To accomplish this task a new Permit to Mine application must be prepared and submitted to the Utah Division of Oil, Gas & Mining for review and approval.

The purpose of this Request for Proposal (RFP) is to gather consultant's assistance in data collection and analysis and technical writing for the new Permit to Mine application. If your firm is interested in doing all or a portion of the proposed work, a proposal should be submitted to:

Sunedco Coal Co.
7401 West Mansfield Avenue, Suite 418
P. O. Box 35B
Lakewood, CO 80235

on or before noon, September 20, 1985. For technical information contact Mr. Charles Durrett (303) 987-8724. Mr. Robert Williams (303) 987-8722 will respond to questions about contractual matters.



SUNEDCO COAL CO.
7401 W Mansfield Ave
Suite 418
Post Office Box 35B
Lakewood CO 80235
303 987 8720

SCOPE OF WORK

SOLDIER CANYON MINE EXPANSION

The technical approach described herein is based on Sun's needs and objective to comply with all regulatory permit requirements to mine coal in Utah. The following phases of work were developed to meet our objective.

PHASE 1 - ENVIRONMENTAL BASELINE

After reviewing existing information in Sun's Lakewood office, the consultant will develop a scope of work (SOW) for baseline studies for all or a portion of the environmental disciplines that he is interested in bidding on. This SOW will be designed to obtain the data required for permitting an underground coal mine in Utah. The SOW will describe:

- o the study objectives
- o methodologies and procedures
- o schedule
- o final work products
- o projected costs

The studies should include as much as possible data found in the Soldier Canyon Mine Permit Document and the Sage Point - Dugout Canyon Permit Document. Information from these documents in addition to field reconnaissance and other literature will be used to prepare portions of a new Permit to Mine Application (Exhibit 2).

GEOLOGY AND HYDROLOGY UMC 783.13 (Exhibit 3)

Responses to this section should address the Utah Division of Oil, Gas & Mining's (DOG M) Permit Application Guidelines 783.15 and .16, 784.14 and 817.41. The consultant will determine the probable hydrologic consequences of the proposed mining and reclamation operations. The determination will apply to the permit area, and the adjacent area and include quantity and quality of water in ground and surface water systems. The consultant will specifically address DOG M Guidelines for Establishment of Surface and Groundwater Monitoring Programs for this proposal.

Ground Water

Information found in the permit documents for the Soldier Canyon Mine and the Sage Point - Dugout Canyon Mine will be used to address the ground water portion of DOGM's permitting requirements. The combined information will be used to construct new maps describing the evaluation of the potentiometric surface, the direction of ground water flow and general areas of recharge on the property. Also existing data will be used to describe water quality, and aquifer coefficients of permeability and storage.

Estimates of mine inflow will be made by the consultant using data from existing permit documents. Traditional ground water techniques and available geologic data will be used to make the calculations. Mine maps for current and future years of operation of the mine will be provided to determine inflows.

Springs and seeps, if present, will be located and described for areas not previously studied in either the Soldier Canyon or Sage Point - Dugout Canyon Mine permit documents. Water flow rate and quantity will be determined at each location.

Alluvial Valley Floor

The consultant will provide a hydrologist and a plant ecologist to review existing data in the permit documents for Soldier Canyon and Sage Point - Dugout Canyon mines and make a reconnaissance of the area to be included in the new permit boundary area to determine: 1) whether the proposed new permit area is an alluvial valley floor (as defined by federal and state law and regulations) which is significant to farming; or 2) whether the proposed mining activities could materially damage the quantity or quality of water in surface or under ground water systems that supply an alluvial valley floor and which are significant to farming.

Surface Water

Soldier Creek, a perennial stream, bisects the proposed new permit boundary area. The stream has been described in both permit documents, but a portion of the area to be added must be reviewed. The watershed drainage basin characteristics (with a map of 1:24,000 scale or greater) will be described. Sub-watersheds within the basin will be delineated and named. Sub-watersheds in the immediate and adjacent vicinity of the new permit boundary area will be physically described to topographic relief, slope, and drainage pattern. All significant surface water resources in the immediate and adjacent areas will be identified, sized, and

located on the drainage basin map. Past, current, and future water uses and water rights as appropriate will be determined.

SOILS UMC 782.21 (Exhibit 4)

Responses to this section should address DOGM Permit Application Guidelines UMC 783.21. Information located in the mine permit documents for Soldier Creek and Sage Point - Dugout Mines will be combined with new data collected by the consultant to form a portion of a new permit application. On that portion of land requiring a soils survey (557.20 acres), the survey will be conducted according to the standards of the National Cooperative Soil Survey and in accordance with procedures set forth in the USDA handbooks No. 436, Soil Taxonomy, 1975 and No. 18, Soil Survey Manual, 1951. A complete Order 3 Soil Survey will be done on areas not previously surveyed within the proposed new permit boundary. The soils will be mapped on aerial photographs to series and phases of series or series variants when these units exceed two acres in size. Sun will provide the aerial photographs.

VEGETATION UMC 783.19 (Exhibit 5)

The consultant should specifically address DOGM's Vegetation Information Guidelines for this proposal. Vegetation data found in permit documents for Soldier Creek Mine and Sage Point - Dugout Canyon Mine in conjunction with a field reconnaissance of new areas (557.20 acres) not described in either of the permit documents will be used to describe existing conditions in a new permit application.

Sun possesses aerial photography (Color I. R.) of the area. The vegetation reconnaissance program should be designed to provide ground truthing so that a detailed vegetation map can be prepared.

FISH AND WILDLIFE 783.20 (Exhibit 6)

In addition to existing regional information on wildlife, data can be found in the permit documents of Soldier Canyon Mine and Sage Point - Dugout Canyon Mine. A field reconnaissance of new areas (557.20 acres) not described in the existing documents will be performed. The reconnaissance will generally consist of observing signs of game and non-game mammals, birds, and reptiles and amphibians; with emphasis on protected, threatened or endangered species. Collected data will be commingled with existing information to form a portion of a new mine permit application.

CULTURAL RESOURCES 782.12(b) (Exhibit 7)

Historical, archaeological and paleontological information found in the permit documents of Soldier Canyon Mine and Sage Point - Dugout Canyon Mine, in the Office of the Utah State Archaeologist and the Utah Recreation Commission, along with a 10% survey of new areas (557.20 acres) not described in the existing mine permit documents will be used to prepare a portion of a new permit application. Erosional features and man-made cuts should be closely examined for evidence of stratigraphic sequences and buried cultural material. All prehistoric and historic sites found should be recorded and mapped, plotted on USGS maps, and limited surface collection should be taken for evaluation purposes.

PHASE 2 - TECHNICAL WRITING

Once the consultant has collected and reviewed reconnaissance data, and information from the Soldier Canyon Mine and Sage Point - Dugout Canyon Mine permit documents, sections of the new application will be written by him using this information. All information within each of the existing permit documents will be assumed to be accurate, and it will be used by the consultant in the writing of the new application. Final text will be placed on IBM Displaywriter Diskette No. 1 discs by the consultant and submitted to Sun at the end of the program.

All maps and/or drawings prepared by the consultant will be prepared on 1:2000 scale mylar sheets in reverse form. Draft blue line copies will be submitted with draft text. All original material will become the property of Sun at the end of the program.