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Contractual Agreement Exhibit F
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DIVISION OF
OIL, GAS & MINING

CONTRACT CHANGE ORDER

UTAH DIVISION OF OIL, GAS AND MINING
355 West North Temple, 3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

To: Earthfax Engineering, Inc.
Address: 6542 South 670 West
Murray, Utah 84123

Date: March 19, 1987
Contract No. 85-5523
Activity # NMSPBM
Organization # 5804

Project Name: Small Operators Assistance Program Change Order No. 2
Boyer Coal Mine

You are hereby requested to comply with the following changes from the contract plans and specifications:

ITEM NO.	DESCRIPTION OF CHANGES QUANTITIES, UNIT PRICES, SCHEDULE, ETC.	DECREASE	INCREASE
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See attached Schedule A

THE SUM OF \$ 21,976 IS HEREBY ADDED TO (~~DEDUCTED FROM~~) THE TOTAL CONTRACT PRICE, AND THE TOTAL ADJUSTED CONTRACT PRICE TO DATE THEREBY IS \$ 59,386.

THE TIME FOR COMPLETION IN THE CONTRACT IS [~~UNCHANGED~~, INCREASED, ~~DECREASED~~] BY 415 CALENDAR DAYS. CONTRACT SHALL EXPIRE ON May 8, 1988.

THIS DOCUMENT SHALL BECOME ATTACHED TO AND BECOME AN AMENDMENT TO THE CONTRACT AND ALL PROVISIONS OF THE CONTRACT WILL APPLY HERETO.

Approved by Contract Rep: *Rick B. [Signature]* Date: 3/17/87

Approved by Admin, MRDRP: *L.P. Boyd* Date: 3/27/87

Approved by Asst Atty Genl: *Paul W. Roberts* Date: 3-25-87

Accepted by Contractor: *Richard B. White* Date: 27 Mar 1987

Approved by DOGM Budget Officer: *Paul W. Roberts* Date: 30 Mar 1987

Approved by Director: *Douglas S. Pichini* Date: 3/17/87

Approved by Divn of Finance: *Joseph R. Terry* Date: 2 Apr 87

Approved by DOGM Director: *Janet E. May for Dianne R. Tibbo* Date: 3/31/87

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Schedule A
SOAP CONTRACT EXTENSION
Earthfax Engineering, Inc.

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Contract No. 85-5323

TASK	Labor	Lab	Expenses
I. Surface Water			
a. Complete 2 Yrs quality data	1,095	1,276	80
b. Install and sample SS-3	70	360	120
1. c. ^a Chart changes (rain/stream)	2,540	-	750
c. 1 yr Quality samples SS-4 & 4A	570	1,120	90
II. New Well			
a. Pump test	575	-	75
III. Groundwater			
a. New well			
1. 1 yr monthly levels	600	840	180
2. ^b Water quality samples	236	-	90
b. Morby well			
1. 1 yr monthly levels	440	-	220
2. ^b Water quality samples	536	1,198	190
<i>note: Boyer well sampled 2x's</i>			
IV. Old Well			
a. 1 yr water levels	340	-	130
b. ^c Water quality samples	1,130	1,058	191
V. Final Report			
	5,176	-	500
Subtotals		13,308	2,616
TOTALS		21,976	

- a = collect surface water quantity information for an additional 12 months
- b = collect bi-monthly water quality samples
- c = collect quarterly water quality samples for 1 additional year

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Exhibit A - Additional Work

Additional work required by this change order will include the following:

I. Surface Water

- completion of two years of water quality data in accordance with the original contract for stations identified as SS-4, SS-4A, SS-5, and SS-6
- completion of two years of monthly flow data collection for Chalk Creek stations and stations located in watershed 4 (WS-4)
- installation of a monitoring station and collection of data from that station for the location identified as SS-3
- completion of chart changes per original contract for the precipitation gage and all stream gages (SS-4 and SS-6) for the extended contract period

II. Ground Water

- completion of two years water quality data collection as per original contract for stations identified as the Morby well, the Boyer well, and the Old well
- collection of water quality data sufficient to meet the criteria of the OWNER's guidelines for stations identified as the New well and the Morby well. Collection will be for a period of one (1) year. Sampling is to be performed on a bi-monthly basis.
- Ground water levels shall be measured on a monthly basis for the New well. Additionally, if access to the Morby well is provided, ground water levels for that well are to be measured monthly
- collection of water quality data sufficient to meet the criteria of the OWNER's guidelines for the station identified as the Old well. Collection will be for a period of one (1) year. Sampling is to be performed on a quarterly basis with two samples encompassing approximate high and low water table elevations.

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- conduct and prepare an analysis for a pump test for the new well as described in the Consultant's proposal dated April 30, 1985 with the exception that the drawdown period for test is to proceed for a minimum period of 24 hours. The period for the recovery portion of the test will proceed until deemed stable as per confirmation with the Division.

III. General

- all reports are to be submitted as described in the original contract (section D. 1. 5.)
- all sampling and analysis is to be performed in accordance with the applicable standards and methods contained in the reports identified under UMC 795.17 (b)(vi) and applicable EPA criteria

IV. Final Report

The final report shall (at a minimum) include and conform to the following:

- incorporation of the additional collected data into the existing report entitled "Results of Overburden and Hydrologic Investigations of Boyer Mine, Summit County, Utah".
- Data incorporation will conform to the items outlined in Exhibit D.1.4.
- revised applicable narrative and maps to reflect the addition of the sampling station identified as the New well and the modified sampling scheme
- revised monthly tabulations of precipitation temperature based upon the additional data collected
- revised narrative to include information on the New well. At a minimum, this is to include: total depth, formation of completion, casing size, static water level, perforation level, and drillers log
- Graphs depicting seasonal variations for the entire study period for the chemical constituents contained in the above referenced report and any additional others determined necessary to adequately describe the hydrologic regime.

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- an updated analysis of the hydrologic regime (surface and ground water) for the mine permit area and adjacent areas and a revised conclusions statement based upon the additional data and information.
- a determination of the Probable Hydrologic Consequences of the mining and reclamation operations for the mine permit and adjacent areas prepared in accordance with the document entitled "Guidelines for Preparation of a Probable Hydrologic Consequences Determination (PHC)" (U.S. Dept. of Interior, Office of Surface Mining, 1985)
- the existing and projected surface and ground water seasonal flow regime, including water level and water table evaluations
- the existing and projected seasonal quality of the surface and ground water regime. This shall, at a minimum, include measurements and estimates of dissolved and suspended solids, pH, iron, manganese, and surface and channel erosion
- a statement on the anticipated effects (quality and quantity) of conducting mining operations on existing water wells in the adjacent area
- a revised discussion on the ground water regime in the mine permit and adjacent areas to include, at a minimum, the depth below the surface and the horizontal extent of the water table and aquifers, the lithology and thickness of the aquifers, and the quality of the subsurface waters

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