



## United States Department of the Interior

BUREAU OF LAND MANAGEMENT  
UTAH STATE OFFICE  
136 E. SOUTH TEMPLE  
SALT LAKE CITY, UTAH 84111

IN REPLY REFER TO

3400  
SL-064903  
(U-921)

**RECEIVED**  
JAN 24 1984

**JIM**  
JAN 24 1984

January 10, 1984

## Memorandum

**DIVISION OF  
OIL, GAS & MINING**

To: Utah Senior Project Manager, CSM, Denver

Attention: Louis Hamm

From: Chief, Mining Law and Solid Minerals, BLM, SO, Salt Lake City, UT

Subject: ARCO Coal Company, Beaver Creek Coal Company, Huntington Canyon  
No. 4 Mine, Emery County, Utah, Mining and Reclamation Plan (MRP)

The two-volume subject plan, which includes the apparent completeness review responses, was transmitted with your letter dated July 12, 1983. This amendment has been reviewed for completeness and technical adequacy. We were also requested to determine if the coal recovery procedures proposed conflicted with future recovery of coal resources. This submittal is apparently a complete resubmittal of the two-volume MRP reviewed by this office and commented on by memorandums dated May 4, 1981, July 8, 1981, December 23, 1981, and June 4, 1982. The following are our comments:

1. Our earlier regulations 30 CFR Part 211 have been recodified as 43 CFR 3400. 43 CFR 3482.1(b) in part, requires that MRP submittals not approved as of August 30, 1982, be revised to comply with the new rules. The subject MRP is still pending approval. By memorandum dated October 12, 1982 (copy attached), we notified the company of this requirement and suggested a way to minimize their efforts to revise the underground mining part of the current permit application package. Principally, we requested that the company provide this office with a cross-reference between the new rules and their current permit application and submit any additional technical information that may be required. To assist the review and preparation of the cross-reference, we attached a checklist used by this office for reviewing "Resource Recovery and Protection Plans" (revised checklist attached).

2. 43 CFR 3482.1(c)(4)(v)(A) requires planned sequence of mining by year for the first 5 years, thereafter in 5-year increments for the remainder of mine life. The company has only sequenced the first 5 years.

3. 43 CFR 3482.1(c)(3)(i) requires sufficient coal analysis to determine coal quality. We were not able to find an analysis showing volatile matter and fixed carbon content.

4. 43 CFR 3482.1(c)(3)(iii) requires the reserve data to be given for each Federal lease. The subject plan only shows totals for permit area.

5. 43 CFR 3482.1(c)(4)(ii) requires specific isopach maps. An overburden isopach map is missing from the plan.

We have a letter from Utah Division of Oil, Gas, and Mining, dated December 20, 1983, stating they have determined the subject plan to be apparently complete and have a complete plan available for public review. BLM cannot approve the resource recovery and protection plan part of the permit application package until our concerns noted above have been resolved.

Enclosures

1. Check Sheet (6 pgs)
2. Oct. 12, 1982 ltr (3 pgs)

*Jackson Dr. Moffitt*

cc: ARCO (w/encl)  
DOGM (w/encl)

Coal Mine \_\_\_\_\_ Mine Plan Date \_\_\_\_\_ Date Received \_\_\_\_\_

Current Resource Recovery and Protection Plan Approval Date \_\_\_\_\_

3482.1(c) Regulation	Separate Items	Included In Plan	Adequate	Comments
(1) Names, addresses, and telephone numbers of persons responsible for operations to be conducted under the approved plan to whom notices and orders are to be delivered; names and addresses of operators/lessees; Federal lease serial numbers; Federal license serial numbers, if appropriate and names and addresses of surface and subsurface coal or other mineral owners of record, if other than the United States.	Operations			
	Lessees			
	Lease Numbers			
	Surface Owners			
	Mineral Owners			
	Lease Numbers			
	MSHA I.D. #			
(2) A general description of geologic conditions and mineral resources, with appropriate maps, within the area where mining is to be conducted.	Geologic Conditions			
	Mineral Resources			
	Maps			
(3) A description of the proposed mining operation, including: (i) Sufficient coal analyses to determine the quality of the minable reserve base in terms including, but not limited to, Btu content on an as-received basis, ash, moisture, sulphur, volatile matter, and fixed carbon content.	Coal Analyses			
	Coal Quality			
	Btu			
	Ash			
	Moisture			
	Sulphur			
	Volatile Matter			
	Fixed Carbon			

\* The Resource Recovery and Protection Plan\* under 43 CFR 3482.1(c) provides for the requirements of the Mineral Leasing Act (MLA) and shall be submitted to the appropriate BLM District as required under 3482.1(b).

3482.1(c)(3) Regulation	Separate Items	Included In Plan	Adequate	Comments
(ii) The methods of mining and/or variation of methods, basic mining equipment and mining factors including, but not limited to, mining sequence, production rate, estimated recovery factors, stripping ratios, highwall limits, and number of acres to be affected.	Mining Methods			
	Mining Equipment			
	Mining Sequence			
	Production Rate			
	Stripping Ratios			
	Highwall Limits			
	Acres Affected			
(iii) An estimate of the coal reserve base, minable reserve base, and recoverable coal reserves for each Federal lease included in the resource recovery and protection plan. If the resource recovery and protection plan covers an LMU, recoverable coal reserves will also be reported for the non-Federal lands included in the resource recovery and protection plan.	For each Fed. lease			
	For LMU			
	Coal Reserve Base			
	Minaible Reserve Base			
	Recov. Coal Reserves			
(iv) The method of abandonment of operations proposed to protect the unmined recoverable coal reserves and other resources.	Protect Coal Reserves			
	Protect Other Resources			
(4) Maps and cross sections as follows: (i) A plan map of the area to be mined showing the following: (A) Federal lease boundaries and serial numbers; (B) LMU boundaries, if applicable; (C) Surface improvements, and surface ownership and boundaries.	Plan Map(s)			
	A			
	B			
	C			

3482.1(c)(4)(i) Regulation	Separate Items	Included In Plan	Adequate	Comments
(D) Coal outcrop showing dips and strikes; and, (E) Locations of existing and abandoned surface and underground mines.	D			
	E			
(ii) Isopach maps of each coal bed to be mined and the overburden and interburden.	Coal Isopach Maps			
	Overburden			
	Interburden			
(iii) Typical structure cross sections showing all coal contained in the coal reserve base.	Cross Sections			
(iv) General layout of proposed surface or strip mine showing: (A) Planned sequence of mining by year for the first 5 years, thereafter in 5-year increments for the remainder of mine life; (B) Location and width of coal fenders; and, (C) Cross sections of typical pits showing highwall and spoil configuration, fenders, if any, and coal beds.	Gen. Layout Surface			
	A			
	B			
	C			
(v) General layout of proposed underground mine showing: (A) Planned sequence of mining by year for the first 5 years, thereafter in 5-year increments for the remainder of mine life; (B) Location of shafts, slopes, main development entries and barrier pillars, panel development, bleeder entries, and permanent barrier pillars;	General Layout Underground			
	A			
	B			

3482.1(c)(4)(v) Regulation	Separate Items	Included In Plan	Adequate	Comments
<p>(C) Location of areas where pillars will be left and an explanation why these pillars will not be mined;</p> <p>(D) A sketch of a typical entry system for main development and panel development entries showing centerline distances between entries and crosscuts;</p> <p>(E) A sketch of typical panel recovery (e.g., room and pillar, longwall, or other mining method) showing, by numbering such mining, the sequence of development and retreat.</p>	C			
	D			
	E			
<p>(vi) For auger mining:</p> <p>(A) A plan map showing the area to be auger mined and location of pillars to be left to allow access to deeper coal;</p> <p>(B) A sketch showing details of operations including coal bed thickness, auger hole spacing, diameter of holes and depth or length of auger holes.</p>	Auger Mining			
	A			
	B			
<p>(5) A general reclamation schedule for the life-of-the-mine. This should not be construed as meaning duplication of a permit application in a permit application package under SMCRA. The resource recovery and protection plan may cross-reference, as appropriate, a permit application submitted under SMCRA to fulfill this requirement.</p>	General Schedule			
	Included			
	Cross-Referenced			

3482.1(c)(6) Regulation	Separate Items	Included In Plan	Adequate	Comments
<p>(6) Any required data which are clearly duplicated in other submittals to the regulatory authority or Mine Safety and Health Administration may be used to fulfill the requirements of the above paragraphs provided that the cross-reference is clearly stated. A copy of the relevant portion of such submittals must be included in the resource recovery and protection plan.</p>	MSHA Approvals			
	Included			
<p>(7) Explanation of how MER of the Federal coal will be achieved for the Federal coal leases included in the resource recovery and protection plan. If a coal bed, or portion thereof, is not to be mined or is to be rendered unminable by the operation, the operator/lessee shall submit appropriate justification to the District Mining Supervisor for approval.</p>	MER			

ADDITIONAL COMMENTS

Regulation	Separate Items	Included In Plan	Adequate	Comments



IN REPLY  
REFER TO

United States Department of the Interior

MINERALS MANAGEMENT SERVICE  
CENTRAL REGION

Office of the District Mining Supervisor  
2040 Administration Building  
1745 West 1700 South  
Salt Lake City, Utah 84104

October 12, 1982

*Companies  
attached*

Dear Sirs:

The Coal Exploration and Mining Operations Rules, 30 CFR 211, govern operations for the exploration, development, and production of coal from Federal lands in accordance with the requirements of the Mineral Leasing Act of 1920 and its amendments. A major revision of these rules became effective August 30, 1982. A significant section of these rules addresses the requirements of your mine plan, now designated as a "resource recovery and protection plan." Specifically 30 CFR 211.10(b) states that, "Any resource recovery and protection plan submitted but not approved shall be revised to comply with these rules."

Most of the mine plans currently approved by this office were submitted as a result of our request that your mine plan comply with the May 17, 1976, amendment of the 30 CFR 211 rules. Others are plans of new mines which have been approved by this office and the State and Federal regulatory authority. Still others are old plans which were updated and became a part of your more recent "permit application" to the Office of Surface Mining or the State regulatory agency. Some mining permits have been issued as a result of these recent applications and others are pending action by Federal and State regulatory bodies.

We interpret the rule change in 30 CFR 211.10(b) to apply to those plans submitted to the State or Federal regulatory authority as a permit application prior to August 30, 1982, which have not been approved as well as any new permit applications which have been or will be submitted after that date. The Mineral Leasing Act resource recovery and protection plan (mine plan) was submitted as a part of the permit application package to the regulatory authority.

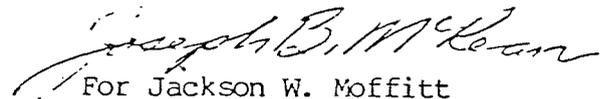
In an attempt to minimize your efforts to revise your current pending permit application to comply with the new rules, we request that you review your present permit application now filed with the State to determine that it contains all of the information required by the August 30, 1982, version of 30 CFR 211. If additional information is required, it should be submitted

directly to this office since it only involves technical information relative to the contents of the resource recovery and protection plan. In addition, we request that you provide us with a cross-reference between the new rules and your current permit application. To assist you in your review and preparation of the cross-reference, we have attached a check list used by this office for reviewing "Resource Recovery and Protection Plans." Where required, we request that your resource recovery and protection plan be updated and submitted to this office by April 1, 1983.

In any new permit application, the resource recovery and protection plan is to be submitted as a separate entity in the permit application package. Original maps and other related information need not be generated. Maps and other documents prepared for other sections in the application will be adequate providing they contain the required information. However, a copy of the relevant portion of such submittals must be included in the resource recovery and protection plan.

If you have any questions, please contact Boyd McKean or myself.

Sincerely yours,

  
For Jackson W. Moffitt  
District Mining Supervisor

Attachment

Beaver Creek Coal Company  
P. O. Box AU  
Price, UT 84501

Gent Flying Enterprises  
P. O. Box 330  
Honaker, VA 24260

Utah Power & Light Company  
P. O. Box 899  
Salt Lake City, UT 84110

Blackhawk Coal Company  
P. O. Box 700  
Lancaster, CH 43130

Kaiser Steel Coal Corporation  
Mr. John D. Saussaman, VP  
P. O. Box 58  
Oakland, CA 94666

Wasatch Coal Company  
c/o Cannon Associates  
102 West Victoria Square  
Phoenix, AZ 85013

Price River Coal Company  
P. O. Box 629  
8 South Main Street  
Helper, UT 84526

Malcolm N. McKinnon Marital &  
Residual Trusts  
1300 Walker Bank Building  
175 South Main Street  
Salt Lake City, UT 84111

California Portland Cement Co.  
400 Wilshire Boulevard  
Los Angeles, CA 90017

Utah Power & Light Company  
P. O. Box 899  
1407 West North Temple  
Salt Lake City, UT 84110

*one to Summary*  
*Mailed*  
*10-22-8*  
*at*

Soldier Creek Coal Company  
P. O. Box I  
Price, UT 84501

Sunoco Energy Development Company  
Suite 1500  
12700 Park Central Place,  
Dallas, TX 75251

Coastal States Energy Company  
111 West 7200 South, Suite 200  
Salt Lake City, UT 84047

Trail Mountain Coal Company  
P. O. Box 356  
Orangeville, UT 84537

Southern Utah Fuel Company  
P. O. Box P  
Albina, UT 84654

~~Fetterolf Group  
P. O. Box 84  
Somerset, PA 15501~~

*Natomas*

Consolidation Coal Company  
Western Region  
Inverness Drive, East  
Englewood, CO 80110

U. S. Fuel Company  
University Club Building  
Nineteenth Floor  
136 East South Temple  
Salt Lake City, UT 84111

Hammer Coal Company  
Frontier, WY 83121

U. S. Steel Corporation  
c/o U. S. Steel Mining Company, Inc.  
P. O. Box 807  
East Carbon, UT 84520

Mr. Cesar Fulton  
P. O. Box 49  
Path of Consequences, NM  
87943

U. S. Steel Corporation  
Room 2215, 600 Grant Street  
Pittsburgh, PA 15230

Mr. Charles A. Denton  
P. O. Box 2497  
Midco, NM 88345

Utah International Inc.  
550 California Street  
San Francisco, CA 94104