



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter  
Governor  
Dee C. Hansen  
Executive Director  
Dianne R. Nielson, Ph.D.  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340

0024

June 20, 1991

Mr. George Morris  
Forest Supervisor  
U. S. Forest Service  
Manti-LaSal National Forest  
599 West Price River Road  
Price, Utah 84501

Dear Mr. Morris:

Re: Flume Installation Amendment, Utah Fuel Company, Skyline Mine, ACT/007/005-91B, Folder #2, Carbon County, Utah

Enclosed is one (1) copy of Utah Fuel Company's preliminary plans for PAP Amendment for the Skyline Mine in Carbon County, Utah. You should have received another copy directly from Utah Fuel Company. This material is for your review, information and files. The Division anticipates completing its review by July 15, 1991. Please provide any written or verbal comments you may have on these plans by this date.

If you have any questions or need additional information, please contact me or Dave Darby, Geologist, at your earliest convenience.

Sincerely,

Daron R. Haddock  
Permit Supervisor

mbm  
Enclosure  
cc: D. Darby  
BT007005.6



**Coastal**  
The Energy People

June 14, 1991

RECEIVED

JUN 17 1991

DIVISION OF  
OIL GAS & MINING

Darron Haddock  
Permit Supervisor  
Division of Oil, Gas & Mining  
355 West North Temple  
3 Triad Center Suite 350  
Salt Lake City, UT 84180-1203

Dear Mr. Haddock:

Attached are 3 copies of a proposed permit amendment to our approved M&RP.

For the past several months we have been discussing with the U.S. Forest Service the possible effects of controlled subsidence on streams. This proposed permit amendment is in response to these discussions.

Our next longwall panel in Mine No. 1 is under the upper reaches of Burnout Creek. We will start mining this panel in mid-August 1991. We recognize that the baseline data for determining the effects of subsidence on streams in the Burnout drainage would be better if these flumes and monitoring points had been installed in 1990; however, we can't turn the clock back.

Our plan is to install the seven parshall flumes as indicated on plate 2.3.6-1 as soon as we receive approval. The flumes will be installed in selected locations. Sandbags will be placed on either side of the flumes to hold them in place and to help direct the water flow into the flume. Material to fill the sandbags will be obtained below the high waterline of the stream so there will be no disturbance in the installation of the flumes. No machinery will be used in their installation.

The subsidence points will be in the drainage bottoms and will be a rebar driven into the ground. The elevation of each rebar will be surveyed in.

At the end of this monitoring period the flumes, sandbags and rebar will be removed from the permit area.

All of these activities are within our approved mining area. No new disturbance will be created. We do not feel that any adjustment in our reclamation bond is needed.

**Utah Fuel Company**

A SUBSIDIARY OF THE COASTAL CORPORATION  
P. O. BOX 719 • HELPER UT 84526 • 801/637-7925 • FAX 801/637-7929  
SALT LAKE 801/596-7111

DOGM Letter  
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We have discussed this proposal with the U.S. Forest Service in Price and are sending them a courtesy copy of this proposal.

We would appreciate your early review and approval of the proposal so that we can install the necessary flumes and surveys in a timely manner. If you need any additional information please contact Keith Zobell.

Sincerely,



L. Craig Hilton  
Technical Support Manager

LCH:KZ:lm

Attachment

xc: Walt Nowak, USFS

An on-the-ground visual inspection will be made annually of the ground surface of subsidence areas (including angle of draw).

This inspection will attempt to locate, photograph, and document the presence of subsidence effects to surface improvements, tension cracks, fissures and other surface effects.

The subsidence monitoring data could be used to determine: 1) the critical width across the pressure arch; 2) the draw angle; 3) the ratio of observed subsidence to predicted maximum subsidence (S/Smax); 4) the relationship between mining and onset of subsidence and the correspondence between the face advance and subsidence profile development; and 5) the bulking factor.

A special three year subsidence monitoring program will be conducted to study the general effects of subsidence related to full extraction coal mining on stream flows in the upper reaches of Upper Huntington Creek and Burnout Creek drainages. The results of this special monitoring program will be used to project future mining areas beneath small perennial and perennial streams and to determine the affects, if any, of full extraction mining on perennial streams in this area.

The monitoring program will proceed as follows:

| <u>Description</u>   | <u>Who</u> | <u>When</u> |
|--|------------|-------------|
| 1. Install parshall flumes for stream flow monitoring as shown on plate 2.3.6-1.                     | Skyline    | July 91     |
| 2. Select and install monitoring for spring flows in the subsidence areas as shown on plate 2.3.6-1. | Skyline    | July 91     |

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|   |                        |    |                                       |   |
|---|------------------------|----|---------------------------------------|---|
| ! | REPLACES               | !! | TEXT                                  | ! |
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| <u>Description</u>  | <u>Who</u>              | <u>When</u>                                    |
|---|-------------------------|--|
| 3. Install subsidence monitoring adjacent to stream drainages on a maximum 200 ft. centers as shown on plate 2.3.6-1. Points will be 3' rebar with no concrete. | Skyline                 | July 91  |
| 4. Develop summary report of observed subsidence effects on stream drainages as well as surface and subsurface hydrology to date.                               | Skyline                 | Dec. 91  |
| 5. Monitor stream, spring, and subsidence points — monthly during field season. Map any surface cracks that form.   | Skyline                 | June–Nov. 91<br>June–Nov. 92<br>June–Nov. 93*? |
| 6. Year–end summary reports   | Skyline                 | Jan. 92 & 93                                   |
| 7. Final report   | Skyline                 | Jan. 94  |
| 8. Evaluation and review  | Skyline, DOGM<br>& USFS | Feb. 94  |

#### 4.17.6 Subsidence Control

The Permittee plans to conduct the underground mining operations so as to prevent subsidence from causing material effect to the surface and to maintain the value and reasonable foreseeable use of that surface in accordance with the preceding subsidence control plan.

#### 4.17.7 Public Notice

Since the surface ownership of the areas of planned subsidence is vested in the United States and is under the authority of the U.S. Forest Service, the annual subsidence monitoring report will be provided to them and to the regulatory authority.

|   |                        |    |  |   |
|---|------------------------|----|--|---|
| ! | ADDITION               | !! | TEXT                                   | ! |
| ! | Section 4.17 Page 4-82 | !! | Section 4.17 Page 4-82A Date 06/14/91! | ! |