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State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

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November 24, 1998

TO: File

THRU: Daron Haddock, Permit Supervisor *DH*

FROM: Wayne H. Western, Senior Reclamation Specialist *WHW*

RE: Review of How the Subsidence Monitoring Stations are Related to the Incidental Boundary Change (IBC), Federal Coal Lease U-06039, PacifiCorp, Deer Creek Mine, ACT/015/018-98A, Folder #2, Emery County, Utah

**SUMMARY:**

I was asked to review the subsidence monitoring program as it relates to the addition of 50 acres to the Deer Creek Mine.

Analysis:

**SUBSIDENCE CONTROL PLAN**

Regulatory Reference: 30 CFR Sec. 784.20, 817.121, 817.122; R645-301-521, -301-525, -301-724.

Analysis:

**Subsidence control plan.**

The current subsidence monitoring program is done with aerial photography and ground surveys. There are more than 12,000 reference points inside and outside the permit boundary. The Permittee can use the existing reference points for subsidence monitoring. Should the Permittee need to establish new monitoring points they can use existing aerial photographs.

**Performance standards for subsidence control.**

The Permittee is required to mitigate subsidence damage inside and outside the permit area. Usually subsidence causes little or no material damage. Subsidence damage is usually

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either surface cracks or disruption of natural water flows. Both types of damage can be mitigated.

**Findings:**

The Permittee met the minimum requirements of this section.

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