



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangarter
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September 14, 1990

TO: File

FROM: Lowell P. Braxton, Associate Director, Mining *LPB*

RE: Ground Water Investigation, Memorandum of Agreement 90-2677 for the Star Point Mine, ACT/007/006, Cyprus Plateau Mining Corporation, Carbon County, Utah *#2*

On September 11, 1990, participants in the above Memorandum of Agreement (MOA) met and reviewed status of the project to date. Cyprus Plateau Mining Corporation was represented by Ben Grimes, the USGS by Joe Gates, Cecil Slaughter, Geoff Freethy, and DOGM by Tom Munson and Lowell Braxton. Cecil discussed work conducted since June of 1990, and indicated an initial draft report on activities conducted prior to June was scheduled for late September, 1990.

The need for and the anticipated results of a surface monitoring hole proposed for 1992 was discussed. The hole is not required by regulation or permit stipulation, but successful completion would have allowed post subsidence monitoring of ground water recharge in a perched aquifer, that has been one focus of the study being conducted under the MOA.

Ultimately, shared costs of the drill hole could be a subject of contention to the participants in the MOA, however, discussion on September 11 focused on the technical merits of the hole:

1. The hole would be drilled in an area impacted by the subsidence effects of mining two coal seams.
2. Probability of mechanical problems during drilling (loss of circulation and bore-hole wall stability) is anticipated to be high due to drilling in subsidence-fractured rock.
3. The only location discussed is not accessible to truck mounted drilling equipment. Although not discussed in detail, helicopter-supported drilling rigs do not often have reverse circulation capabilities or aerated mud drilling capabilities that would enhance success in drilling fractured rock targets.
4. Juxtaposition of subsided workings and over burden down dip from the proposed drill site raises a question of the potential for water buildup in the targeted aquifer within the timed scope of the study (1993).

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The Division was charged with making a decision with respect to drilling the hole. Based on the potential for failure cited in numbers 2, 3, and 4, above, the decision is to not drill the hole. The USGS should continue with work in progress, including documentation of work completed to date, drilling and installation of monitoring equipment in an additional underground drill hole and surface mapping of fractures. A proposal for work to be conducted by the USGS after October 1, 1990 should be presented to DOGM and Cyprus Plateau. Both DOGM and Cyprus Plateau support the ongoing study without the drilling of the surface monitoring well.

vb
cc: J. Gates, USGS
B. Grimes, Cyprus Plateau Mining Corp.
T. Munson
MI78/110&111

** TRANSMIT CONFIRMATION REPORT **

Journal No. : 004
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Date : Sep 18,90 9:17
Document : 03 pages
Time : 02'04"
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Date: 9-17-90

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Number of Pages to Follow: 2

To: Ben Grimes

Plateau Phone: 539-2875

From: Lowell Baxton

Phone: 538-5340

Subject: _____

Remarks: _____
