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United States Department of the Interior

ACT/007/006
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GEOLOGICAL SURVEY

WATER RESOURCES DIVISION
Room 1016 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

June 22, 1989

Mr. Benjamin Grimes
Sr. Environmental Engineer
Cyprus Plateau Mining
P. O. Drawer PMC
Price, Utah 84501

RECEIVED
JUN 27 1989

DIVISION OF
OIL, GAS & MINING

RE: Cost summary for subsidence project

Dear Mr. Grimes:

Please find enclosed a breakdown of all cost incurred on the subsidence project as of May 6, 1989.

The cost summary is in response to your request for an updated accounting of expenditures on the subsidence project at a meeting in Salt Lake City attended by the Utah Division of Oil, Gas, and Mining, United States Geological Survey, and Cyprus Plateau on June 13, 1989.

Cecil Slaughter

Cecil Slaughter
Hydrologist

Copy to: Rick Smith, Utah Division of Oil, Gas, and Mining
: Joe Gates, Chief of Investigations, WRD



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SUBSIDENCE COSTS

as of
MAY 6, 1989

<u>ITEM</u>	<u>AMOUNT</u> <u>(DOLLARS)</u>
Salary-Project Chief & other personnel	29,450
Transportation	3,984
Travel expenses	2,347
Training	155
Misc. equipment	848
Publication costs	-----
Water Quality Analyses	1,347
Drilling (by mining company)	31,550
Drilling materials	3,064
Instrumentation	30,825
Contracting-personal services	6,187
Contracting-helicopter services	15,641
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Total less drilling costs	93,848*

* Total funds expended are more than the \$80,615 budgeted. We have subsidized the project this year because:

- (1) The USGS initially planned to allocate \$60,615 to this study as a full match of cooperation funds offered by the Division of Oil, Gas, and Mining; and we were not able to do that because our region was out of matching funds; and
- (2) We are still attempting to obtain additional matching funds which sometimes become available at the end of the year as other offices cannot use their full allocation.

COST ESTIMATE-OVERALL PROJECT

FY	1989	1990	1991	1992	1993
Salary-Project Chief	27,195	20,650	20,650	13,500	29,800
Travel	2,000	1,600	5,560	1,600	800
Subsistence	3,000	1,900	6,350	1,900	950
Training	1,500	-	1,600	-	-
Misc. equipment	400	300	300	-	-
Publication costs	-	1,600	-	-	1,600
Water quality analyses	4,200	2,380	1,600	1,600	1,600
Drilling (by Mining company)	31,550	-	20,000	-	-
Drilling materials	2,750	-	1,880	-	-
Instrumentation	23,700	-	2,500	-	-
Instrument maintenance	-	800	800	800	-
Stream monitoring	500	800	800	800	800
Contracting-personal services	4,810	-	-	-	-
Contracting-helicopter services	10,560	-	5,000	-	-
Total less drilling costs	80,615	30,030	47,040	20,200	35,550
Amount contributed by each organization					
UDGM	60,615	15,015	23,520	10,100	17,775
USGS	20,000	15,015	23,520	10,100	17,775