

File: CEP, 015 / 002

CONSULTANTS / ENGINEERS

VAUGHN HANSEN ASSOCIATES

WATERBURY PLAZA - SUITE A
5620 SOUTH 1475 EAST
SALT LAKE CITY, UTAH 84121
(801) 272-5263

June 30, 1982

Mr. Wayne Hedberg
Hydrologist
Division of Oil, Gas, and Mining
4241 State Office Building
Salt Lake City, Utah 84114

Dear Wayne:

The purpose of this letter is to confirm our conversation of yesterday (June 29, 1982) and to outline our proposed groundwater monitoring plan for the West Appa lease area in Rilda Canyon which we discussed yesterday and which you agreed appeared to be adequate.

As I indicated, West Appa Coal Company is planning to drill 5 core holes along the ridge separating Rilda Canyon from Meetinghouse Canyon. Three of the core holes will be equipped and used for hydrologic monitoring purposes. As we discussed, we are proposing to develop and case the holes to a depth of approximately 200 feet below the regional water table.

The hydrologic monitoring wells will be used to provide piezometric and aquifer characteristic data. Since the wells will be completed above the coal seams to be mined; and therefore, will not be destroyed by mining, the wells will be used to monitor drawdown impacts to the regional water table from coal extraction near the base of the Blackhawk formation.

Groundwater quality and resultant impacts (if any) to the quality of groundwater will be monitored through sampling springs potentially impacted by mining and by sampling from within the mine itself. A spring survey will be conducted in the fall of this year to determine the locations of all springs and the quantity and quality of spring flow. Strategic springs will be selected for continued monitoring to establish the required base-line conditions. Selected springs will be monitored during the operational and post-mining periods to assess impacts to groundwater quantity and/or quality which may result from mining.

Our conversation was helpful in determining the adequacy of our proposed monitoring plan. As I indicated, we desire to work closely with you so that we are able to provide the needed hydrologic information. I will keep you informed of our progress and if you have any additional recommendations regarding the proposed monitoring plan, please call.

Sincerely,

Marvin E. Allen
Marvin E. Allen
Executive Vice President

MEA/lg
cc: Leonard Witkowski, West Appa Coal Company

RECEIVED
JUL 02 1982

DIVISION OF
OIL, GAS & MINING

7/2/82

Betty,

Could you check
+ see if there is
a PRO # assigned
to this project yet?
If not, would you?
assign one please.
(+ file)

Thank,

Wayno

PRO/015/002