



**Diamond Shamrock**  
Coal Company

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MAR 21 1985

DIVISION OF OIL  
& GAS & MINING

March 21, 1985

Mr. Rick Smith  
State of Utah  
Division of Oil, Gas & Mining  
355 West North Temple  
3 Triad Center / Suite 350  
Salt Lake City, Utah 84180

RE: Stipulation 817.41-(1)-RS Trail Mountain Mine ACT/015/009

Rick,

Enclosed you will find Trail Mountain Coal Company's plan for acquiring site specific data on the occurrence of subsurface water between the mine workings and Mancos Shale.

This plan is submitted for approval by you and the Division.

Should you have any questions or need additional information please contact me at 748-2140.

Sincerely,

Allen P. Childs  
Engineer

enclosures

APC/bka

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DIVISION OF OIL  
& GAS & MINING

TRAIL MOUNTAIN COAL COMPANY  
EMERY COUNTY, UTAH  
ACT/015/009

The following is Trail Mountain Coal Company's plan for acquiring site-specific borehole data at the Trail Mountain mine site.

Prior to August 31, 1985 Trail Mountain Coal Company will retain the services of a competent and professional drilling and boring contractor to drill an observation borehole through the Star Point sandstone formation and into the Mancos Shale. The purpose of this borehole will be to delineate the possible occurrence of subsurface water(s) between the mine workings and the Mancos Shale. After the borehole is completed, a perforated 2" schedule 40 PVC pipe will be inserted the entire depth of the borehole to an elevation 2 foot above the surface. The top 10 feet of the borehole around the 2" PVC will be grouted with concrete and the 2" PVC pipe will be capped so as not to allow the borehole to be contaminated.

If drilling encounters subsurface water(s), Trail Mountain Coal Company will provide to the Division, by August 31, 1985 a systematic monitoring plan.

- A. The observation well will become part of the Trail Mountain hydrological monitoring program. Grab or pumping samples will be taken on a quarterly basis.
- B. Water samples will be analyzed on a quarterly basis. A list of water quality parameters to be tested is found in attachment I.
- C. Trail Mountain Coal Company will submit to the Division on a quarterly basis water level and quality data.

After Two (2) years of baseline data is compiled, Trail Mountain Coal Company would request of the Division to have sampling frequency and water quality parameters re-evaluated.

## WATER QUALITY ANALYTICAL SCHEDULE

Field Measurements	Laboratory Measurements	
Discharge	TSS	TDS
pH	Total Alkalinity as CaCO <sub>3</sub>	Total Manganese
Specific Conductance	Total Acidity	pH
Temperature, Air	Oil and Grease	Cadmium
Temperature, Water	Carbonate	Lead
	Bicarbonate	Selenium
	Chloride	Nickel
	Sulfate	Copper
	Calcium	Zinc
	Magnesium	Boron
	Sodium	Aluminum
	Potassium	Vanadium
	Fluoride	Mercury
	Nitrate plus nitrite as N	Chromium
	Orthophosphate as P	Arsenic
	Total Organic Carbon	Barium
	Total Dissolved Iron	