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

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cc: Mary Ann
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**DIVISION OF OIL GAS & MINING
FIELD VISIT FORM
TECHNICAL**

Date : 9/10/1998

Time: 9:30 a.m.- 1:00 p.m.

Mine: Bear Canyon Mine

File Number: ACT 007/006, Folder #2

DOG M Staff: Ken Wyatt, Jim Smith, Sharon Falvey

Other Attendees: Charles Reynolds, Co-Op Mining Corporation, Kay Jensen, Scott Allred Jack Stoyanoff, Menco Copinga, and Laura Filmore, North Emery Water Users Association.

Purpose:

To commence with the Birch Spring action plan as identified under Technical Directive 005.

Observations:

The meeting held at the North Emery Water Users Association (NEWA) reviews the spring development conducted in 1984. Photographs documenting the spring development were presented. Information of interest included the following;

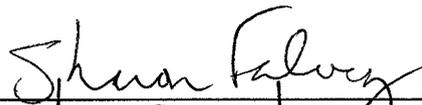
- During spring development calcite deposits were removed from the spring,
- To remove the calcite deposits explosives were used
- Fracture source number one and source number two contributed the majority of flow estimated to be 65 gpm following development (see attached drawing)
- Source number 1 has a spring box developed around it and source number 2 has a pipe pushed into the fracture
- The east wall in the Birch Spring alcove flowed approximately 7 gpm during development
- The east wall and the north rock face were trenched filled with clean 2" gravel and perforated pipe.
- Source #4, adjacent to and west of the stream channel, was reported to have significant water issuing from it but the water was not captured during development
- The final flow rate measured following development was slightly over 70 gpm

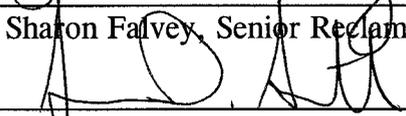
To clarify some issues a phone call was made to Jack Stoyanoff. Previous information provided

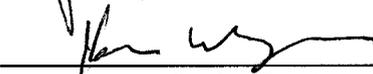
by Co-Op indicated the development and blasting was completed in 1986, however Jack indicated the development took place in 1984. The NEWUA tried to capture flows from source #4 in 1986. However, they dug 26 feet below the calcite layer and no water was available.

Recommendations/Conclusions:

During this site visit the North Emery Water Users Association committed to unearth the spring sources number 1 and number 2 and observe the existing spring condition. The Division and Co-Op will be informed so all parties can observe the spring condition when they are uncovered. The water users will also try to obtain a down hole camera from PacifiCorp to determine if roots and/or sediment are blocking the springs water lines. Co-Op will conduct additional mapping of faults and fractures associated with the spring to determine the source locations for the Birch Spring waters. Further monitoring and water characterization is being conducted by Co-Op.

Signature:  on September 29, 1998
Sharon Falvey, Senior Reclamation Specialist

Signature:  on September 29, 1998
Jim Smith, Senior Reclamation Specialist

Signature:  on September 29, 1998
Ken Wyatt, Senior Reclamation Specialist

cc:

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