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

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ck

May 21, 2001

TO: Internal File

THRU: Daron R. Haddock, Permit Supervisor *ADH*

FROM: Gregg A. Galecki, Reclamation Hydrologist *GA*

Re: Technical Field Visit Grassy Trail Area, West Ridge Resources, Inc.,
West Ridge Mine, C/007/041

Other Attendees: Karla Knoop, JBR Environmental Consultants, Inc.

Date & Time: May 16, 2001, 08:30 - 14:00. Overcast, slight SE wind, approximately 60 degees (Farenheit), minor snow remaining in north-facing exposures.

PURPOSE:

Observe field methods of collecting water samples. An attempt is being made to observe all the permittee-assigned personnel in collecting water data to evaluate whether acceptable protocol is being used.

OBSERVATIONS:

Sites visited included Springs WR-2, WR-1, SP-12, SP-13; in the order they were visited, respectively. Digital photographs and UTM coordinates were collected at sites WR-1 and WR-2, to be incorporated into the Division database. A personal hand-held GPS unit was used to collect the UTM coordinates.

TECHNICAL FIELD VISIT

Observations of Ms. Knoops' field techniques in collecting water monitoring data indicate her methods are exemplarily. Field methods include calibrating of EC and pH meters prior to use, using new tubing in the peristaltic pump, rinsing of meters and pump prior to use, the use of a portable pipe and calibrated pitcher/flume/flow meter to collect flow measurements, and detailed field notes. Ms. Knoop has a regimented procedure that she follows at each site (and seldom deviates from) to ensure all the necessary data is collected in the same manner. Meters are calibrated only at the beginning and end of the day, but routine use of the meters has indicated minimal drift of the calibration occurs with this procedure. Samples are stored on ice, in coolers immediately after collection.

Some minor questions arose concerning the sample collection and pumping of groundwater Well #1. Apparently, three well volumes (including sand pack) are purged from the well, then the pump is turned off and the well is allowed to recover for a period of time, then pumping is re-initiated to collect the sample. JBR personnel other than Ms. Knoop conducts this sampling, and questions to this technique will be answered at a future date.

RECOMMENDATIONS/CONCLUSIONS:

I am confident that the field procedures used by Ms. Knoop will produce consistent and reliable data that is representative of the field conditions. Hopefully, all other permittee personnel is following the same or similar techniques for providing consistent and reliable data.

cc: Mike Glasson, Andalex
Karla Knoop, JBR
Price Field Office

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