



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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10/27

DIVISION OF OIL GAS & MINING FIELD VISIT FORM TECHNICAL

Date : October 2, 1996
Time: 12 noon to 1:00 p.m.
Mine: Horizon Mine
File Number: ACT/007/020
DOGM Staff: Robert Davidson, Susan White, Dave Darby
Other Attendees: none

Purpose:

Check Jewkes Creek area for hydric soils.

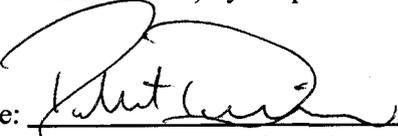
Observations:

In the immediate Jewkes Creek area for the proposed Horizon Mine, three soil pits were dug and the soil investigated for hydric soil development. The three pits were located in the lower, mid and upper part of the Jewkes Creek Horizon area. Pits 1 and 3 were dug adjacent to the creek, approximately 3 feet. Pit 2 was located about 10 to 15 feet from the stream.

Both pit 1 and 3 were well developed hydric soils. Within the top 18 inches of the soil profile the classical hydric soil signs were strongly evident and included soil gleying, black Fe-Mn staining with some peaty material, oxidized rhizospheres, and many, fine, distinct mottles. In addition, Pit 1 contained some well decomposed, black peaty wood located about 2 feet and soil gleying at about 3 feet. Three pictures were taken at Pit 1 showing the general area, the immediate hydrophytic vegetation, and the surface soil slice. Pit 2 did not contain gleying or any of the black staining associated with reduced, saturated conditions. However, Pit 2 did contain few, fine distinct mottles indicating some saturated conditions during the year. These same faint mottles were also observed in the top 12 inches of the large soil pit excavated by Earthfax - however, this mottling was not reported by Earthfax in the MRP for the Jewks Creek soil description.

Recommendations/Conclusions:

In conclusion, strong hydric soil development appears to extend outward about 3-6 feet of either side of Jewkes Creek. The above observations and conclusions were verbally reported to Earthfax (Vickie Bailey and Chris Hansen) by telephone on 10/2/96.

Signature: 
 Robert A. Davidson, Reclamation Specialist II (Soils)

on October 3, 1996

