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

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OK

October 18, 2001

TO: Internal File
THRU: Daron R. Haddock, Permit Supervisor *DRH*
FROM: Gregg A. Galecki, Sr. Reclamation Specialist/Hydrology *GA*
RE: Technical Field Visit, Plateau Mining Corporation, Star Point Mine, C/007/006

Attendees: Gregg Galecki, DOGM
Johnny Pappas, Plateau Mining Corp.
Lane Jensen, EarthFax

Date & Time: October 4 2001, 12:20 to 16:00

Weather Conditions: Sunny, approximately 70 degrees F.

PURPOSE:

The purpose of the visit was to review the drainage/rip-rap channel design and location through the pad area. Once reclamation was initiated, on-site evaluations by the permittee (Johnny Pappas), and the consultant/PE (Lane Jensen) indicated alternative/changes in designs of the channels may better suit the site. We met on site to determine and have concurrence on the most-suitable design and drainage locations for the site.

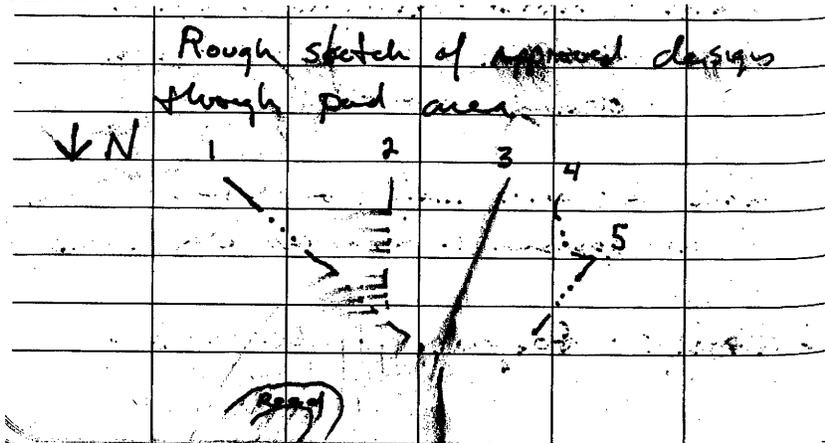
OBSERVATIONS:

During the on-site evaluation, the group determined some of the designs were impractical and were not economically feasible for the proposed drainages through the Sediment Pond area. Other alternatives will fit better with the apparent original drainage configuration.

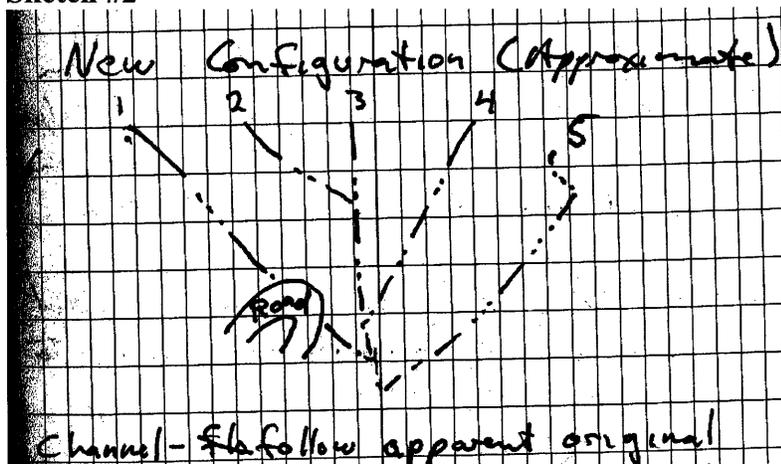
TECHNICAL FIELD VISIT

All five ephemeral drainages that run through the #1 Mine Area and specifically the Sediment Pond area were evaluated. Sketch #1 illustrates the configuration of the drainages, as they exist in the currently approved MRP. Sketch #2 illustrates the configuration as concurred during the site visit. Below is a verbal description of how the construction of the individual channels has been modified.

Sketch #1



Sketch #2



- Channel #1 will be a riprap channel and follows the apparent original drainage through the pond area and ties into the original drainage below the road.
- Channel #2 will possibly flow over bedrock as opposed to the riprap channel. A trench will be excavated on the level area above the pad site to help determine the depth to bedrock and the best location for the channel.
- Channel #3 will follow the drainage pattern currently established. There will be two 'plunge pools' located over bedrock outcrops. Between the two plunge-pools the channel will flow over bedrock if sufficient bedrock exists. A riprap channel will be used if bedrock does not exist.

- Channel #4 will likely be constructed with 'pyramat' fabric as long as the drainage fits the 'pyramat' design specs.
- Channel #5 – The area was too steep and cost-prohibitive to place a riprap channel down the 'fall-line'. An established channel exists at the toe of the slope that will be incorporated into the design. To use the existing channel, a short, well-armored riprap channel will need to be constructed to connect the undisturbed and existing channels.

RECOMMENDATIONS/CONCLUSIONS:

The above-cited changes will likely be implemented. The changes will be submitted as 'as-built' modifications. Continued site visits are encouraged by the Operator and it is highly recommended to be continued by Division personnel to ensure quality reclamation.

cc: Johnny Pappas, Plateau Mining
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