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# Blazon Co.

(MINING CONTRACTORS & CONSULTANTS)

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DIVISION OF  
OIL, GAS & MINING

September 4, 1981

State of Utah  
Department of Natural Resources  
Division of Oil, Gas, and Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

Dear Sandy:

The following plan is being submitted to obtain D.O.G.M. approval for two topsoil storage sites to be located within the confines of the disturbed area.

Enclosed is a description of the topsoil storage areas, a map showing locations, and the measures taken to protect these areas in accordance with UMC 817.11(g) and 817.23(b).

If you have any questions, please feel free to call (801-448-9408).

Sincerely,

*Kirk R. Harvey*

Kirk R. Harvey  
Mining Engineer

KRH/mah

Enclosure

## TOPSOIL STORAGE PLAN

This plan and description applies to two topsoil storage sites presently existing within the confines of the disturbed area (See Figure 1).

Each site was previously selected based upon its location and in regards to the amount of sheltering provided from direct main slope run-off.

Topsoil storage A contains approximately 74 cubic yards of topsoil and has an additional capacity for two to three times the volume presently there. This topsoil location will also serve as a storage for additional topsoils that may be removed in the future.

Presently all topsoils located at storage A have been removed from the sidewall slopes in the fill region. All topsoils removed to date have been removed, segregated and stored in accordance with Addendum No. 1 (Fill Slope Stability Study).

Storage Site A provides protection from excessive hillside run-off due to location. This site is positioned west of main hillside run-off paths and drainage directly above the site is diverted by natural hillside contours to the north of the topsoil storage.

The topsoil pile has been stowed up against a cut in the third class road and is elevated above the culvert receiving Little Snider drainage at the throat of the canyon. Due to its location it is protected from wind, water, and compaction.

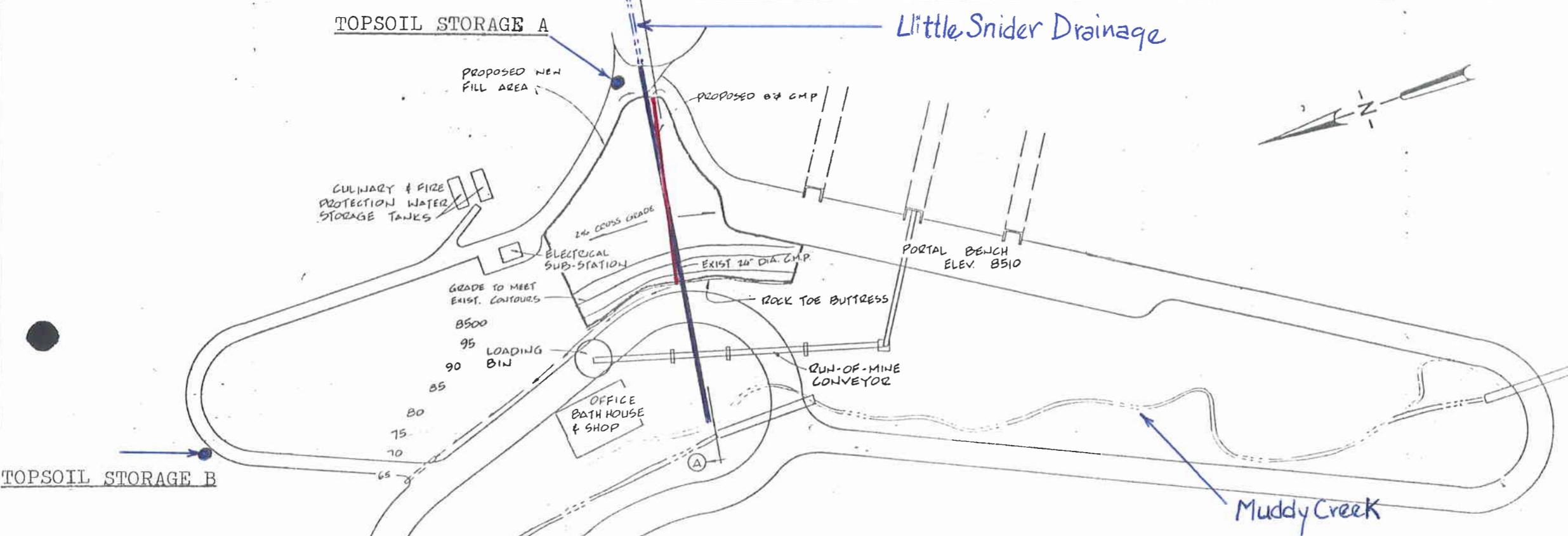
In addition to its location, a two-foot berm will be constructed around the topsoil pile to protect it from possible run-off water erosion. Roadway run-off waters will be directed away from the berm using contouring and straw where needed. All drainage will be diverted into the culvert underlying the fill area and removed from the area (See Figure 1).

To further control erosion due to direct rainfall, ect., the storage pile will be planted with non-noxious grass this Fall.

Topsoil Storage B consists of approximately 5 cubic yards of topsoil material. This topsoil was removed during construction of the third class road and was retained to provide additional topsoil for the reclamation of the fill area. This storage area is situated directly below a large pine tree which provides shelter from direct rainfall and is located around the bend of the road. The majority of hillside run-off is diverted away from the storage site by means of roadway drainage.

In addition to its location, the applicant plans to provide additional protection by seeding this area with non-noxious grass this Fall. If water erosion were to become apparent, straw and contour diversion would be utilized.

Both topsoil storage sites will be posted with a "Topsoil, Do Not Disturb" sign and will be in full compliance with UMC 817.11(g) and 817.23(b).



**NOTES**

1. VEGETATION WITHIN LIMITS OF FILL AREA SHALL BE CLEARED AND GRUBBED TO REMOVE ALL ORGANIC MATERIAL
2. TOPSOIL OF UPPER 6 INCHES WITHIN LIMITS OF FILL AREA SHALL BE REMOVED, SEGREGATED AND STORED ON SITE, AND SHALL BE REUSED FOR SURFACING THE FILL MATERIAL FOLLOWING FINAL GRADING.
3. MATERIALS TO BE USED FOR THE CONSTRUCTION OF FILL AND ROCK TOE BUTTRESS SHALL BE AS FOLLOWS:
  - (1) MATERIAL 'A' - MINE WASTE FROM THE MINE SHAFTS FREE OF VEGETATION, DEBRIS, FROZEN SOILS, AND BOULDERS EXCEEDING 8 INCHES IN SIZE,
  - (2) MATERIAL 'B' - BEST LOCAL NON-TOXIC, NON-COMBUSTIBLE MATERIAL AVAILABLE FREE FROM ORGANIC SUBSTANCES, DEBRIS, FROZEN SOILS, AND BOULDERS EXCEEDING 8 INCHES IN SIZE,
  - (3) MATERIAL 'C' - CLEAN AND DURABLE SANDSTONE ROCK 8 TO 36 INCHES IN SIZE FREE OF COAL, CLAY OR SHALE,
  - (4) MATERIAL 'D' - WELL GRADED CLEAN AND DURABLE ROCK 1/2 TO 6 INCHES IN SIZE FREE OF COAL, CLAY OR SHALE.
4. EXCAVATION AND CONSTRUCTION FOR FILL AND ROCK TOE BUTTRESS SHOULD BE TRUE TO GRADES AND SLOPES AS SHOWN
5. EXCAVATED TRENCH SHALL BE FREE OF STANDING WATER OR SNOW ACCUMULATION PRIOR TO THE CONSTRUCTION OF ROCK TOE BUTTRESS AND FILL.
6. PLACEMENT AND COMPACTION OF MATERIALS FOR CONSTRUCTING FILL AND ROCK TOE BUTTRESS SHALL MEET THE FOLLOWING REQUIREMENTS:
  - (1) MATERIALS 'A', 'B' AND 'D' - SHALL BE PLACED IN 12-INCH LOOSE HORIZONTAL LIFTS AND COMPACTED TO AT LEAST 90% OF THE MAXIMUM DENSITY DETERMINED BY AASHTO SPECIFICATION T99-74 (PROCTOR TEST).
  - (2) MATERIAL 'C' - MAY BE DUMPED OR HANDPLACED WITH CONTACTING PIECES SECURELY WEDGED AND INTERLOCKED, WITH ONE ANOTHER AND WITH THE SMALLER PIECES FILLING THE VOIDS BETWEEN LARGER PIECES.
7. THE TOP OF THE FILL SHALL BE FREE OF DIPS AND DEPRESSIONS TO AVOID ACCUMULATION OF STANDING WATER AND SHALL BE GRADED TO MEET EXISTING CONTOURS. THE SURFACES OF THE FILL SHALL BE REVEGETATED WITH NATIVE GRASS AND SHALL BE GRADED AND RESTORED TO CLOSELY RESEMBLE THE GENERAL SURFACE CONFIGURATION OF SURROUNDING TERRAIN AND BLEND INTO AND COMPLIMENT THE DRAINAGE PATTERN OF THE SURROUNDING TERRAIN, AND BE RECLAIMED TO BE CAPABLE OF SUPPORTING FUTURE LAND USE.

Figure 1