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DIV. OF OIL, GAS & MINING

S/037/111

File: UTU-74614
(U-069)

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Moab District
San Juan Resource Area
P.O. Box 7
Monticello, Utah 84535

COMPLIANCE INSPECTION
MINING

Operator: David Kimmerle	**Date Inspected:** 3/12/98
General Location: South Cottonwood Creek/Cottonwood #4 Mine	
Legal Description: T. 37 S., R. 21 E., Section 4, NE¼SE¼	
Mining Claims:	

STATUS			
Mining:	**Explor.:**	**Rehab.:**	**Pending:** X

Remarks:

I met Mr. David Kimmerle at the Cottonwood #4 Mine to discuss his proposed mining operation. Mr. Kimmerle assisted me in mapping the site using a pace and compass method. The mine site is in the South Cottonwood Mining District. The Cottonwood #4 is a pre-existing underground uranium/vanadium mine. The mine has been operated intermittently since the 1950's as uranium and vanadium prices allow. Surface disturbance at the mine currently consists of: a decline trench and portal; an open shaft approximately 35-40 feet west of the portal; old wooden ore bin; three waste rock dump areas; associated access roads; and numerous old drill holes (See attached maps 1, 2 & 3 dated March 13, 1998). Numerous other old mine sites exist in the general area. Two of those sites were partially mapped. A mine waste rock dump at one of the sites immediately west of the Cottonwood #4 is shown on the maps and a second mine site is shown in the southeast corner of map 1.

Mr. Kimmerle proposes to enter the decline portal to access remaining uranium/vanadium ore reserves in the mine. Waste rock and ore will be hauled out the decline portal and either disposed or stockpiled on site. The waste rock will be piled on the northern most old waste rock pad. The ore will be stockpiled on the old pad east of the portal. In order

to provide ventilation to the mine, Mr. Kimmerle proposes to install fans on existing bore holes. One fan would be located approximately 800 feet northwest of the portal and two additional fans would be installed approximately 1100 feet east of the portal (maps 1 & 3). The fan sites may include a generator, compressor, and air tank. Existing roads would provide adequate access to the fan areas. It would not be necessary to do any road improvement in order to haul the fan and other equipment to the site. The use of the north-south roads to the fan areas is not considered to be a redisturbance of existing roads provided the use is limited to that proposed. However, it will be necessary to travel off these existing roads a short distance on old faint drill roads to the proposed fan sites. These short spur roads, (see map) will be considered a re-disturbance of existing features.

During mine operations and during periods of non-operation, the BLM will require that measures be taken to make the site safe for the public. At a minimum this will involve a gate at the portal which will be locked when mining operations are not occurring and a berm and fence around the open vertical mine working (shaft) to prevent any recreational vehicle or other public from a serious mishap.

Reclamation will consist of filling the decline trench and shaft with available waste rock material; grading the waste rock pile; and preparing a seedbed and seeding all areas of redisturbance (shown as diagonal hatch on maps). The total area that will be redisturbed is approximately 1.1 acres. It will not be necessary to stockpile topsoil prior to operations since the mine site has previously been disturbed and no topsoil is available and, the fan areas will not require blading or site preparation but simply vehicular travel on old faint roads. At the time of reclamation, the BLM may waive the requirement to seed the waste rock pile.

Based on field measurements, the following amounts of fill were estimated for the decline portal and the shaft (see attached x-sections):

<u>Decline trench</u>

average longitudinal section area = 1,125 square feet
average width of trench = 10 feet
fill (ss. & sh.) weight factor = 110 pounds/cubic foot
1,125 square feet X 10 feet = 11,250 cubic feet
11,250 cubic feet X 110 pounds/cubic foot = 1,237,500 pounds
1,237,500 pounds/2,000 pounds/ton = 620 tons

<u>Shaft</u>

average x-sectional area = 227 square feet
length of shaft = 24 feet
227 square feet X 24 feet = 5,448 cubic feet

5,448 cubic feet X 110 pounds/cubic foot = 599,280 pounds
599,280 pounds/2,000 pounds/ton = 300 tons

Total = approximately 920 tons

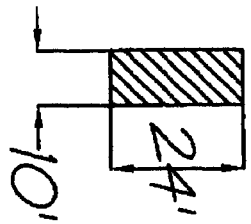
I provided Mr. Kimmerle with copies of the BLM's new requirements for estimating reclamation costs and providing a financial guarantee. Once Mr. Kimmerle submits a notice and the other required information, the BLM will send copies to DOGM for their review. I will wait to receive the additional information before proceeding further in processing the proposal.

RECOMMENDATIONS:		
Contact:	**Monitor:** X	**Close File:**

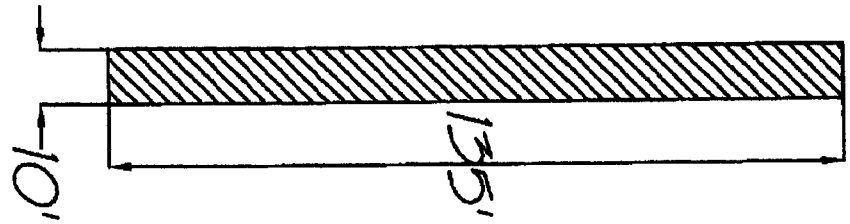
Ted Mabrey
Signature

3/16/98
Date

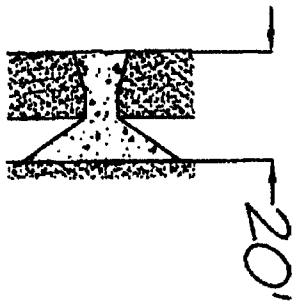
Shaft Plan View



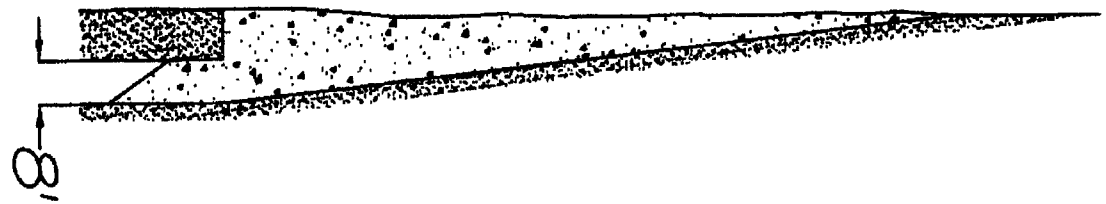
Trench Plan View



Shaft Closure
Cross Section



Decline Trench Closure
Longitudinal Section



BLACK MESA BUTTE QUAD MAP

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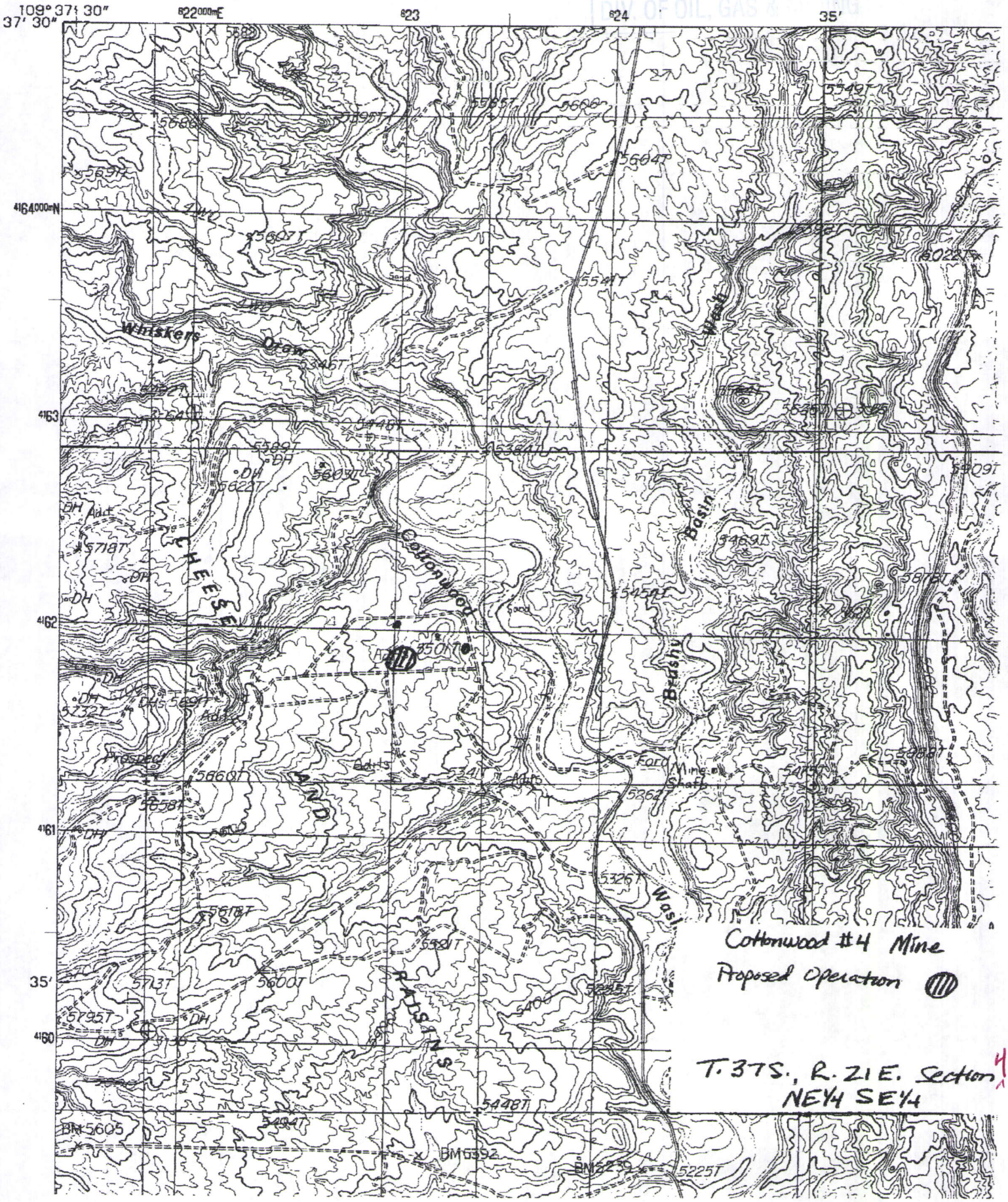
UNITED STATES
DEPARTMENT OF THE INTERIOR
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