



**RECEIVED**

SEP 24 2015  
GRAND JUNCTION FIELD OFFICE  
DIVISION OF  
RECLAMATION MINING & SAFETY

**RE: Derry Mine, File No. P-2015-017, NOI Application Reply**

Mr. Czapla:

I will address your questions in the letter from you dated September 10<sup>th</sup>, 2015.

1. I spoke with Brian Dellett of Layne Christiansen Drilling and they will be using a Becker Drilling Rig. It's my understanding the drill hole diameter is ten (10) inches. I have included a drawing which shows the drill hole locations and the approximate depths in parenthesis.

2. The Becker Drill Rig has rubber tires. I have included a photo.

3. No new roads will need to be constructed. As the map shows, the drill sites are very close to existing dirt roads. The rig will only be required to drive approximately 2,000 feet off road to test holes #1 and #2. These areas are covered with sage brush and the rig will cause very little disturbance.

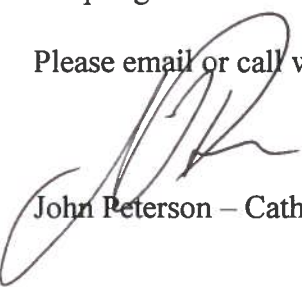
4. Test Holes #1, #2, #9 and #11 are the test holes being done in previously undisturbed areas. The other test holes are going to be done within debris piles or sand piles from the historical dredge operations, so only holes #1, #2, #9 and #11 will need to be backfilled and re-vegetated.

5. It is my understanding up to fifty percent (50%) on the material extracted from the holes will be available for backfilling. There is also several thousand tons of sand and gravel on site that is available for backfilling.

6. Holes #3, #4, #5 and #6 will each have approximately 25 tons of bulk sampling done at each location.

7. The sand piles are located at test holes #3, #4, and #11. There will be 25 tons of bulk sampling done at these locations as well.

Please email or call with any questions regarding this reply. Thank you.



John Peterson – Cathedral Mining

# Drill Systems AP1000 Becker Hammer Drill

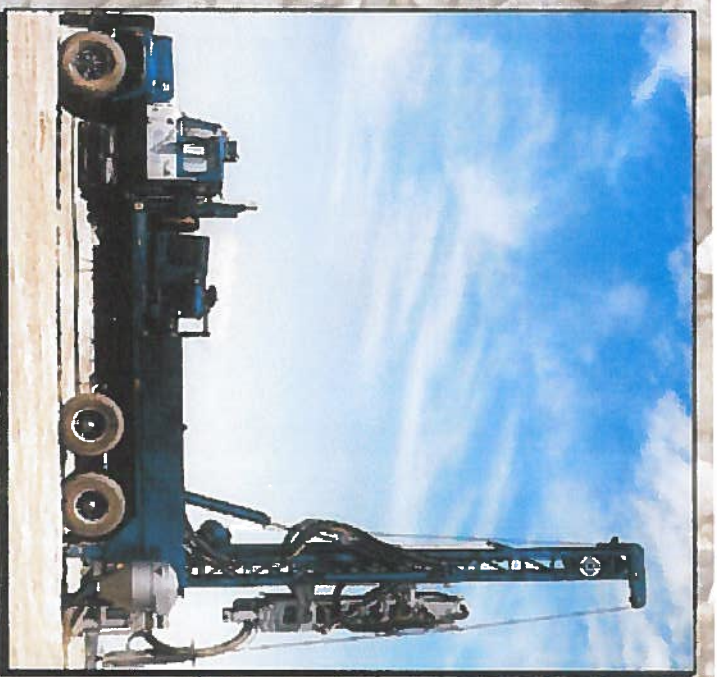
## Capabilities

- Dual Wall Air Percussion
- Dual Wall Air Rotary
- Becker Penetration Testing
- Triple Wall Hammer Drilling
- Wireline Coring
- Mud Rotary
- Automatic Sample Hammer



## Specifications

- 8100 Ft. Lbs. Percussion Energy
- Supercharged Hammer
- 100 Tons Pull Back
- 6.6" O.D. x 4.25" I.D. Pipe
- 9" O.D. x 6" I.D. Pipe



## Rotary Drilling

- 5600 Ft. Lb. Torque
- 25,100 Lbs. Pull Back
- 20,000 Lbs. Pull Down
- Diamond Drill 0-600 RPM
- Air Rotary 0-90 RPM
- 2 Winches, Line Pulls to 22,000 Lbs.

Great West Drilling's AP1000 Becker Hammer Drill incorporates several drilling methods in one rig. For difficult drilling conditions such as gravel, boulders, sands and cobbles, and other unconsolidated formations, the Becker Hammer Air Percussion Method is used to efficiently penetrate the material. The AP1000's rotary drives are used for Dual Wall Air Rotary, Wireline Coring, conventional Air Rotary and Mud Rotary drilling. Several pipe sizes

