COMMENCEMENT OF BOYLE



PORTAL SAFETY BENCH

TYPE OF SCRAP BUILDINGS TO



BE BURNT FOR SAFETY

START OF CAMP CLEANUP



BOYLE TUNNEL PORTAL SAFETY



BENCH BEING CUT

SCRAP BUILDINGS KNOCKED DOWN



Unloading power shovel



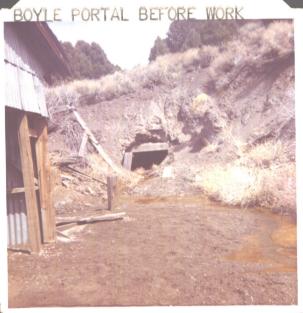
BOYLE PORTAL BEFORE WIRK



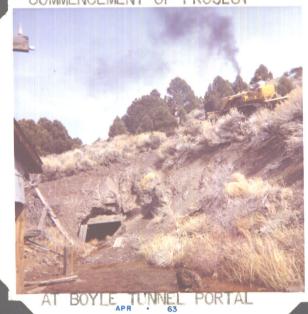
. APR . 6



COMMENCEMENT OF PROJECT



APR . 67



GAVE-NOW HANDLED 4/22/63

ROAD BETWEEN BOYLE PORTAL



05

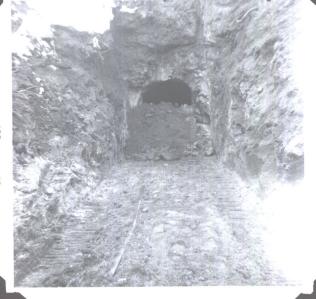


Company trailer house enroute



Making new road to
Dorothe Tunnel

Donothe Pontal after recovery



opening Boyle Tunnel



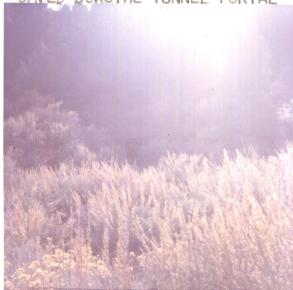


DOROTHE' TUNNEL DUMP



BEFORE MORK START

CAVED DOROTHE TUNNEL PORTAL



Widened and cleaned
Donothe Dump for
equipment installation



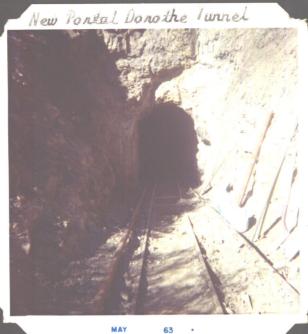
Commencement of Dorothe Tunnel work



APR • 63

Do no the Tunnel mucking machine





Laying track in Vorothe Tunnel



1st Donothe round 5/4/63



Donothe Tunnel target



Donothe Tunnel Line



Scrap house before burning



When cutting fire break



Scrap house burning



Scrap house after burning



Road between camp & Donothe



BOYLE TUNNEL LINE



Cutting Boyle Safety Bench



When on power shovel



Boyle Tunnel cave start



Boyle Junnel caved wick moving



noving rock at worst cave



Boyle Tunnel Activity



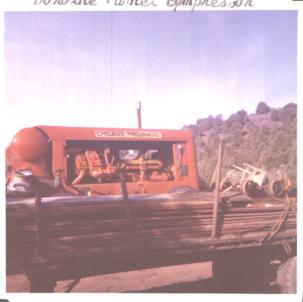
MAY • 63

Buckeye shaft





Do no the Turnel compression



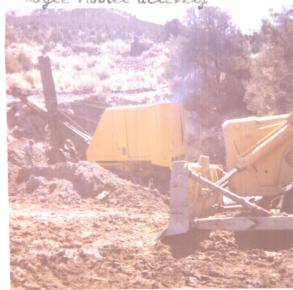
TOP OF CAVE Boyle Tunnel



Boyle Tunnel activity

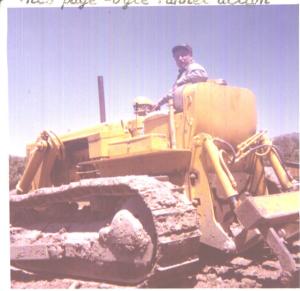


Boyle Tunnel activity

















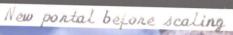
MAY 63



JUN . CT



JUN • 63





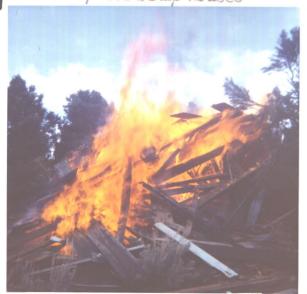
JUN • 63

getting down to grade



JUN • 63

Last of the scrap houses



JUN • 63 •



JUN • 63 •

CUTTING FIRE BREAK



REDUCING FIRE HAZARD



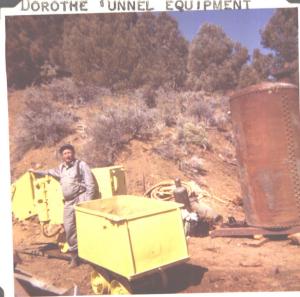
SCRAP HOUSE CLEANUP



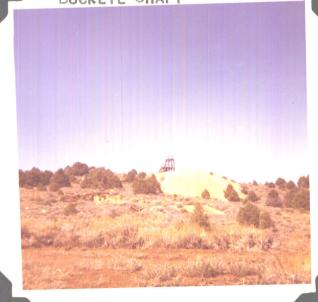
HEADFRAME COMO SHAFT



DOROTHE TUNNEL EQUIPMENT



BUCKEYE SHAFT



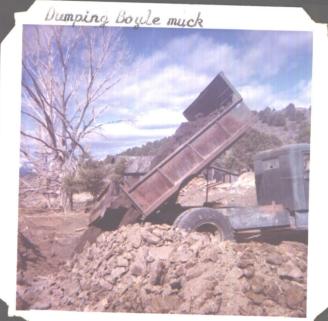




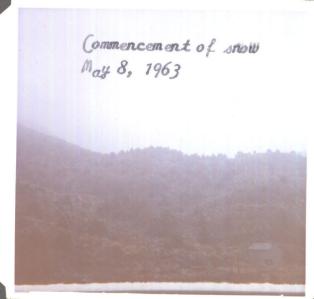
Armco Mine Office



MAY • 63



MAY • 63



MAY

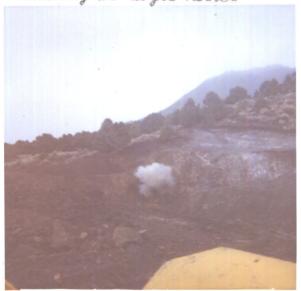




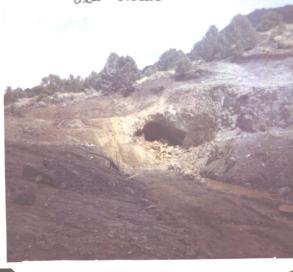
MAY • 63

Sloughed groundin Boyle Tunnel

Blasting at Boyle Turnel



Note how Boyle Tunnel
cd caved 100' in from
old Portal



MAY • 63

Boyle cave 100' in tunnel



MAY • 63

Caved ground inside Boyle



MAY • 63

Drilling anchor holes

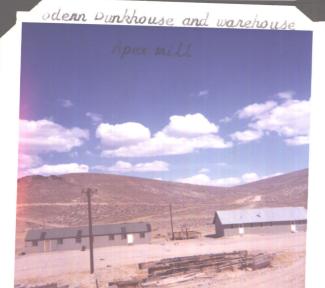


MAY . 63

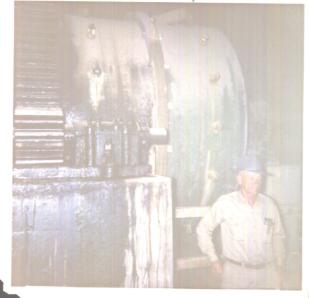
Snowing May 13th







250 ton ball mill apex mill



Apex Mill Austin, "evada



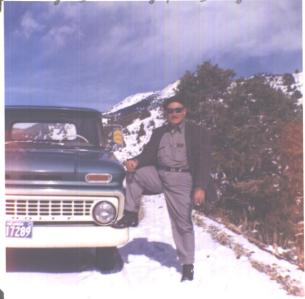
Cleaner cells Apex Mill



May 135 miles below como



May 13 snowing for 3 days



May 13 near (omo Dump



Wagon dailling Boyle Tunnel

MAY • 63



Blast start Boyle Tunnel



MAY • 63

Wagon drilling Boyle Tunnel



MAY • 63

Drilling above Boyle care



MAY • 63

3,000 tons blasted Boyle Tunnel



MAY • 63

Camp generator - Witte Diesel



MAY • 63

(amp fuel storage

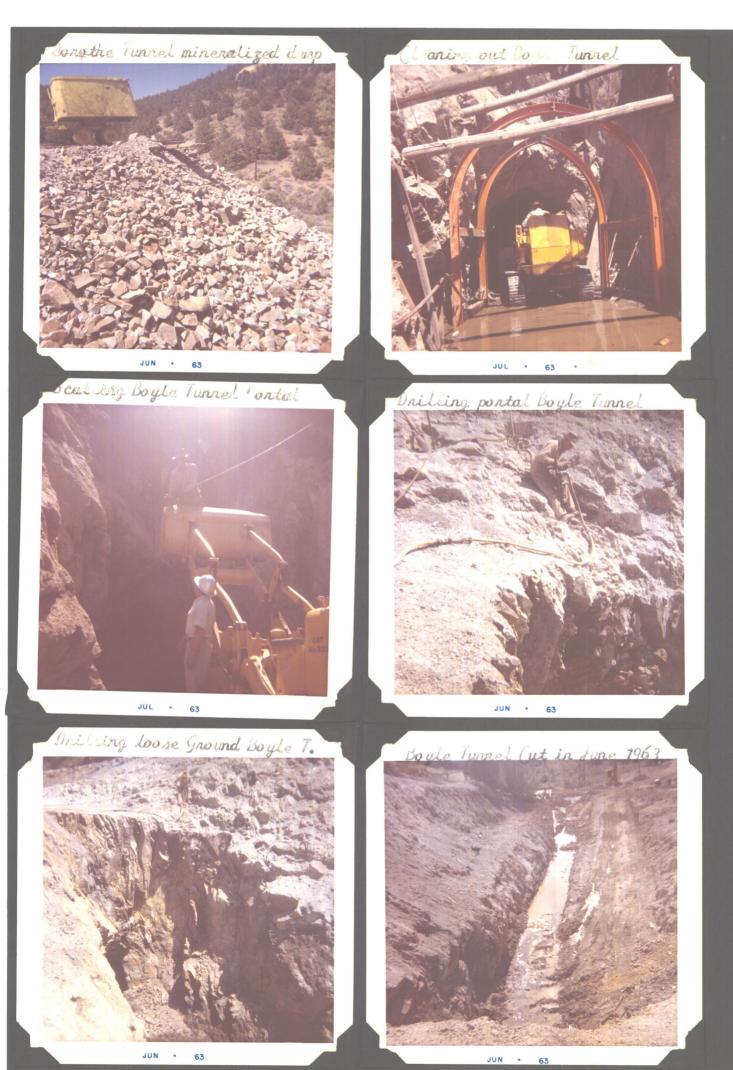


MAY • 63

Como Mine Office



MAY • 63 •



-1190 0016 Como



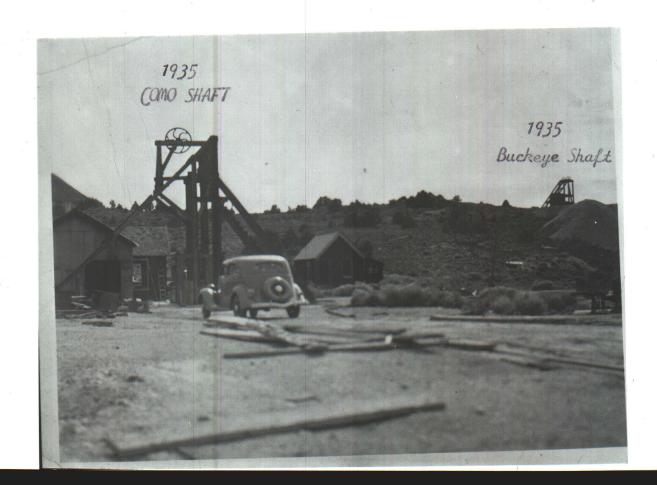
ARIGO SIVED INCS. INC.

APRIL 1963



BOYLE TUNNEL PORTAL CAMP AND MILL





CONSULTING MINING ENGINEERS
April 22, 1963

PHONE GLADSTONE 6-0922 4297 D STREET SACRAMENTO, CALIF.

CABLE ADDRESS WRENCO

ARMCO SILVER MINES, INC.

FROM:

TO:

JAMES H. WREN

SUBJECT:

WEEKLY REPORT - APRIL 3 THROUGH APRIL 9, 1963.

- 1. Completed purchase arrangement for Chevrolet 3/4 ton pickup truck with the Johnson Chevrolet Company, Reno, Nevada on April 3, 1963.
- 2. On April 3, 1963, interviewed Dave Eason of Fallon, Nevada, with regard to the "daylighting" of the Como Mine Boyle Tunnel Portal Area and other related work.
 - 3. On April 4, 1963:
 - (a) Took delivery of the Chevrolet 3/4 ton pickup.
- (b) Inspected work site with prospective contractor, Dave Eason.

 Following is listed tentative contract terms for Boyle Tunnel Portal rehabilitation:
 - 1) Dave Eason agreed to:
- a) Pay all haulage and service cost to transport two units
 -- 1 bulldozer and 1 front end loader to Como.
 - b) Furnish proof of his insurance.
- c) Safety slope and handle all cubic yardage opening the tunnel from portal to the cave 50' past list timber set -- for a flat price of \$1,500 according to our specifications.

- e) Do the bulldozer work making room for the Jensen's compressor and working area in front of their contract tunnel @ \$12.00 per
- (c) Inspected worksite with prospective contractors, Hal and Bob Jensen. Following is tentative contract terms for the peak X-cutting and drifting development:
 - 1) The Jensens agreed to:
- a) Furnish all rail rish plates, belts and new ties for at least 16 pound rail -- 20 pound rail if they can get it.
- b) Straighten out the X-cut and raise the back. It needs some widening for 1 ton cars and two side swipes.
 - c) They will pay all move in and move out of equipment.
- d) They will drive 5'x7' tunnel on grade according to our specifications.
- e) They will furnish all powder and supplies including timber, if needed, providing that no more than three sets are needed at any one location.
- f) They will furnish a copy of their workman's compensation insurance that they pay for.

(h) Purchased Nevada State Automobile License for pickup truck.

Very truly yours,

Consulting Engineer

Armco Silver Mines, Inc.

(i) Took project photos for subsequent monthly report.

up as soon as Eason's bulldozer is on the site.

CONSULTING MINING ENGINEERS

CABLE ADDRESS WRENCO

April 17, 1963

PHONE GLADSTONE 6-0922 4297 D STREET SACRAMENTO, CALIF.

TO:

Armco Silver Mines, Inc.

FROM:

J. H. Wren

SUBJECT:

Weekly Report, April 10 through 16, 1963.

- 1. April 10, 1963:
 - a). Delivered Boyle Tunnel Portal contract to Mr. D. Eason for acceptance.
 - b). Aligned various engineering items for the project.
- 2. April 11, 1963:
 - a). Eason moved late D-6 Caterpillar bulldozer-ripper from Fallon, Nevada to Como.
 - b). Completed contract controls for the Peak Area development.
- 3. April 12, 1963:
 - a). Dismantled old buildings in Boyle Tunnel Portal vicinity for salvage of what lumber that can again be used and the residue is scheduled to be burnt.
 - b). Cut safety bench on South side of Boyle Tunnel Portal. Cut bench for dragline working base. Rerouted tunnel water.
 - c). Walked D-6 bulldozer-ripper to Peak area to make roads, clean portal of proposed x-cut drive, and square away for equipment placement.
- 4. April 13, 1963:
 - a). Eason made power shovel dragline ready to be moved, to Como.
- 5. April 14, 1963:
 - a). Completed company trailer house purchase arrangement. Brought Boyle Tunnel Portal design up-to-date.
- 6. April 15, 1963:
 - a). Moved power shovel-dragline and front end loader from Fallon to Como. Contractor's trailer house was moved to mine site.
 - b). Purchased trailer house for the company's mine utility quarters.
- 7. April 16, 1963:
 - a). Weather conditions prevented contractor from progress.

James H. Wren

CONSULTING MINING ENGINEERS

CABLE ADDRESS WRENCO PHONE GLADSTONE 6-0922 4297 D STREET SACRAMENTO, CALIF.

April 24, 1963

TO:

ARMCO SILVER MINES, INC. 40 West 1st Street Reno, Nevada

FROM:

J. H. Wren

SUBJECT:

WEEKLY REPORT, APRIL 17 THROUGH 23, 1963

APRIL 17, 1963:

- a). Purchased project supplies
- b). Transported 46' x 10' combination mine office, supervisory quarters, from Reno, Nevada to the Como Mine.
- c). Constructed 350' of new road on the Beak Claim from the County road to the Dorothe Tunnel Portal.
- d). Opened Dorothe Tunnel Portal, widened portal cut, cut safety and drainage channel above portal, leveled dump for equipment installation. Moved approximately 950 cubic yards of earth and rock.

APRIL 18, 1963:

- Power shovel and bulldozer-ripper handled some 1,400 cubic yards on the Boyle Tunnel reopening project.
- b). Supplies hauled to Como.
- c). Camp cleanup commenced. Old scrap houses and debris will be burned as soon as winds permit.
- d). One laborer was employed on company account.

APRIL 19, 1963: a). Jensen Contractors moved in two truckloads of equipment and supplies, one mucking machine and one trailer house. b). Some 2,200 cubic yards of earth and rock were moved with the power shovel and bulldozer-ripper, at the Boyle Portal reopening site. APRIL 20, 1963: a). Jensens unloaded equipment and set up their trailer house. b). Heavy snows prevented project work on the Boyle Tunnel. APRIL 21, 1963: a). Dayton transformers inspected. They will probably be suitable to reduce the power from the main transmission line to a voltage we can use at the Camp site. b). The heavy snows will probably prevent work on the Dorothe Tunnel equipment installation and the Boyle Tunnel contract for the next two days. The newly moved earth will have to dry a little before it can efficiently be bulldozed away from digging sites. APRIL 22, 1963; a). The Jensens left for Ely, Nevada to bring in more equipment while the ground is too wet to work. b). The power shovel and bulldozer at the Boyle Tunnel project has suspended work for two or three days pending drying out of ground to enable working. APRIL 23, 1963: a). Inspected steel segment sets at Oroville, California for the Boyle Tunnel project. They may be used but a lighter type is preferred. b). Bought steel water storage tank for camp - 250 gallon capacity. c). Aligned to have the power shovel commence work again tomorrow. -2-

GENERAL:

It is anticipated that the Boyle Tunnel will be open at the portal sufficiently to allow access for inspection within the next three working days.

Rental purchase on diesel powered combination loader - hauling equipment is being sought. Our budget will not allow a straight purchase on this unit. As the Boyle Tunnel will be ready to rehabilitate within the next ten days, we shall have to have our equipment procurement settled by that time. Lacking a loader - shuttle car we shall probably consider 5 tons ore cars @ \$50 each and 30 pound rail at \$70 per ton delivered for haulage, loading underground with a mobile unit. The trains would be pulled with a diesel unit. 16 - five ton cars are available, so two eight car trains could be used, each hauling 40 tons while the other was being loaded underground. This alignment will not be excessively expensive to set up if we cannot meet budget requirements on rental purchase of rubber type loading and haulage.

James H. Wren.

CONSULTING MINING ENGINEERS

CABLE ADDRESS

PHONE GLADSTONE 6-0922 4297 D STREET SACRAMENTO, CALIF.

May 6, 1963

TO:

ARMCO SILVER MINES, INC.

40 West First Street

Reno. Nevada

FROM:

J. H. Wren

SUBJECT:

COMO MINE PROJECT WEEKLY REPORT

APRIL 24 THROUGH APRIL 30, 1963

1. APRIL 24, 1963:

- a). Power shovel started moving earth again today. 900 tons were moved out of the Boylle Tunnel Portal renewal project.
- b). Fours camp and road bulldozing was done with a D-6 Caterpillar.

2. APRIL 25, 1963:

- a). Moved 1,200 tons at Boyle Tunnel Portal site.
- b). Dorothe Tunnel contractors brought a load of pipe and rail in to the work site.
- c). An AC HD-6 Bulldozer-ripper was hauled to Como to be used as a standby unit when the Boyle Tunnel contractors move their equipment out. No standby charge is to be made. When we use the unit, cost of time will be \$7.50 per hour.

3. APRIL 26, 1963:

- a). Moved 1,100 tons of earth and rock on the Boyle Tunnel Project. Some of the tonnage had to be drilled and shot to loosen the material for power shovel loading.
- b) Setup temporary camp generating plant for housing lights.

ARMCO SILVER MINES, INC., APRIL 24 - April 30, incl. WEEKLY REPORT:

4. APRIL 27, 1963:

- a). Moved 1,400 tons of earth and rock on the Boyle Tunnel Project.
- b). Laid temporary camp water service line.
- c). Set up fuel oil line.
- d). Discharged company employee Edgar Friandt for lack of work output.
- e). Sierra Pacific Power Company wants \$3,000 to cut camp service in with our transformers. That is too high, so we'll get by with a small generator until major power is needed and the full power installation requirement is set up.

5. APRIL 28, 1963:

- a). Sunday, no power shovel work.
- b). Burned four scrap houses to clean up camp and reduce fire hazard.
- c). Built platform in front of trailer house office.

6. APRIL 29, 1963:

- a). Handled 1,400 tons of earth and rock at Boyle Tunnel portal renewal site.
- b). Salvaged timber sets out of Boyle Tunnel.
- c). Jensens unloaded pipe and rail at Dorothe Tunnel.
- d). Jensens started equipment installation at Dorothe Tunnel.
- e). Burned debris and two more scrap houses at Comp Camp.

7. APRIL 30, 1963:

- a). Laid 160' of Dorothe Tunnel Track.
- b). Scaled the Dorothe Tunnel down and cleaned sloughed muck out.
- c). Boyle Tunnel drilled, shot and handled 700 tons of rock, out of tunnel line.
- d). Built porch on company office site trailer house.

James H. Wren

CONSULTING MINING ENGINEERS

CABLE ADDRESS

May 9, 1963

PHONE GLADSTONE 6-0922 4297 D STREET SACRAMENTO, CALIF.

70: Anmeo Silven Mines, Inc.

FROM : J. H. Wren.

SUBJECT: Weekly Report - May 1 through May 7, 1963

May 1, 1963:

a). Handled 800 tons at Boyle Tunnel Portal project.

b). Laid track and ties for 150' at Donothe Tunnel

May 2, 1963:

a). Handled 1,500 tons on the Boyle Tunnel Pontal project.

b). Finished track laying in the Donothe Tunnel.

c). Side swiped near end of the Donothe Tunnel and made head noom for mucking machine clearance of 5'X 7' cross section.

d). Hauled supplies to Como after procurement

May 3, 1963:

a). Mucked 30 cars out of Donothe sideswipe and back raising round.

b). Drilled and blasted one advance round in Donothe Tunnel.

e). Upened muckpile at Boyle Tunnel opening. Found that there has been 100' or more of timber down, chiefly because someone nobbed the drift set caps. There is not too much slough but some and the timber will create additional work and expense to remove and renew. Will rent a slucher and set at the "ortal to handle old timber removal and caved muck.

May 4, 1963:

a). Inspected Apex Mill 20 miles East of Austin, Nevada with object of evaluation. A separate report and inventory will be issued on this plant.

b). Do no the Tunnel advanced.

el. Boyle Tunnel contractors don't work on Saturday as a rule.

Weekly Report May 1 through 7, continuation:

May 5, 1963:

a). Completed items of engineering data.
b). Drilled and shot two Donothe Tunnel nounds - mucked out.

May 6, 1963:

a). Advanced Donothe Tunnel.

b). Boyle Tunnel contractor getting tunnel line down to grade.
c). Burnt four scrap houses for cleanup and fire hazard prevention.

May 7, 1963:

a). Advanced Do nothe Tunnel.

b). Set up power pole for camp & shop temporary service.

c). Relieved ground above proposed Boyle Turnel's new portal.

SUMMARY :

a). The Boyle Tunnel is completed as far as surface dirt moving is concerned from an economical standpoint. Some 100' of "daylighted" portal area has been achieved. Approximately 14,200 tons of earth and nock has been moved on this project todate. About 3,000 additional tons will finish what the surface contractor can accomplish before going underground.

b). The Boyle Tunnel "daylighting" estimate was: \$ 6,500.00
Actual cost will be:

Note: This does not include the 100' of new timbering and cave cleanup inside the tunnel which was not part of the estimate of November 2, 1963. That will cost \$2,500.

James A. Wien.

CONSULTING MINING ENGINEERS

CABLE ADDRESS WRENCO

May 11, 1963

PHONE GLADSTONE 6-0922 4297 D STREET SACRAMENTO, CALIF.

70: Mr. (harles Oster, Silver State Mines, Inc. 40 West 1st Street Reno, Nevada.

FROM : James H. Wren.

SUBJECT :

Apex Minerals Corporation's treatment plant some 22 miles Easterly from Austin, Nevada off of Highway No. 50.

- 1. An inspection of the milling installation equipment, buildings, warehouse inventory and related fittings was made on May 4, 1963. The Apex President, Mr. Walter Mc Fadden of Colton, California and his superintendent accompanied me on the examination. On May 4th they were not in position to issue an inventory list nor the kind of deal they want.
- 2. On May 9th an inventory was delivered and a copy sent forward to you. This inventory is accurate excepting for some minor items and the major crushing unit of the mill.
- 3. All equipment is in either new or excellent condition. Some of the treatment units and motors are new and have not been used at all. Buildings are in excellent condition. Some of the buildings are so constructed to allow economical and easy moving. Buildings contain full inventory of furnishings and plumbing fittings. Please refer to the extensive inventory list with reference to this paragraph.

Apex Mill Data of May 11, 1963:

4. STEMS NEEDED IN THE APEX MILL INVENTORY FOR ROCHESTER:

- a). (yanide unit, estimated cost, \$25,000.00
- c). Part or maybe all of the above procurement cost can be saved by selling or trading units in the Apex inventory that Silver State Mines, Inc. will not need.

5. ROCHESTER METALLURGY:

- a). The writer has not made a scrutiny of the Kochester ones nor has seen any technical mill test data. If the one is 100% amendable to cyanidation, no flotation unit will be needed. If sulphides in some zones have to be concentrated, concentrates roasted before cyanide treatment, a roasting unit will have to be added to papagraph "4" above.
- b). It is recommended by the writer that Mr. Arthur Lakes who has done the engineering todate be contacted for a metallurgical report to enable laying out an efficient Rochester flow sheet. We cannot estimate detailed cost until this has been accomplished. However, in the case of the Apex equipment and related units, it is timely to regotiate at this stage. The flotation equipment, for instance, if not needed can be sold or traded to Armoo Silver Mines, Inc. where it is a mandatory requirement.

Apex Mill Data of May 11, 1963:

6. APEX OFFER :

a). Mr. Mc Fadden, President, Apex Minerals (orporation advised on May 9, 1963 that his firm would accept \$80,000 for the whole inventory on the property including buildings, tankage, pipe lines, etc. It can be paid out on the basis of a purchase contract.

7. PURCHASE RECOMMENDATIONS :

- a). The Apex Company claims to have spent \$1,000,000 on the plant and plant site. About one half of that amount was wasted! The equipment is highly specialized machinery and cannot be sold at will. (onsequently it will be to their advantage to effect a sale to a reputable firm at a lower figure than they quoted on May 9th. They have no operating capital themselves and the Apex Mill is a source of tax and watchman expense to them.
- b). Please bear in mind that a new flotation-cyanide mill of 250 tons capacity would cost \$2,500 pervion-capacity or \$625,000. This would not include anything but the bare mill.
- c). The writer would recommend two available deals to Apex:
 - 1). \$18,500 cash against a \$60,000 total purchase price. Payout of \$41,500 @ \$1.25 per ton put through the Silver State Mines, Inc. plant.
 - 2). \$35,000 cash for all Apex inventory on the property plus some minor units that are stored in Fallon, Nevada. The fallon storage request would apply on "1)." above too.
- d). Of the above options number two would be the most economical and preferable to your company providing adequate setup capital subscription is available.

8. ESTAMATED COST 250 TON PLANT :

Note: Following is based upon a \$35,000 outright purchase price for the Apex inventory. This cost can be reduced if cyanide treatment is all that is necessary for the Rochester ores.

a). Apex mill, buildings, warehouse supplies, determination equipment (lab), pipe, etc..... \$ 35,000.00

c). Concrete pour @ \$60 per Cu. Yd. 200 Cu. Yds. 12,000.00

> \$ 99,500.00 Contingency 20% 19,900.00

TOTAL ESTAMATE \$119, 400.00

9. SUMMARY :

a). Other mills:

Bogdanich, Mountain City, 100 tons, maybe small.

Union Mill, Carson-Reno, 250 tons, available for

\$35,000 but is old.

Candaleria cyanide plant, new but lacking essential ietms,

James H. Wren

- Page Four -

CONSULTING MINING ENGINEERS

CABLE ADDRESS WRENCO

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- d). Of the above options number two would be the most economical and preferable to your company providing adequate setup capital subscription is available.

8. ESTAMATED COST 250 TON PLANT :

- Note: Following is based upon a \$35,000 outright purchase price for the Apex inventory. This cost can be reduced if cyanide treatment is all that is necessary for the Rochester ores.
 - a). Apex mill, buildings, warehouse supplies, determination equipment (lab), pipe, etc..... \$ 35,000.00

 - c). Concrete pour @ \$60 per Cu. 4d. 200 Cu. 4ds. 12,000.00

\$ 99,500.00 Contingency 20% 19,900.00

TOTAL ESTAMATE \$119, 400.00

9. SUMMARY ;

a). Other mills:

Bogdanich, Mountain (ity, 100 tons, maybe small. Union Mill, Carson-Reno, 250 tons, available for \$35,000 but is old.

Candaleria cyanide plant, new but lacking essential ietms,

James H. Wren

- Page Four -

CONSULTING MINING ENGINEERS

CABLE ADDRESS WRENCO

May 11, 1963

PHONE GLADSTONE 6-0922 4297 D STREET SACRAMENTO, CALIF.

70: Mr. Chas. Osten,
Anmoo Silver Mines, Inc.

FROM : J. H. Wren.

SUBJECT :

Special memo with regard to Boyle Tunnel Rehabilitation.

- 1. Please refer to "a)." of the Summary of the Weekly Report

 "May 1 through 7, 1963". At that time it was thought that
 cost would be lower to commence timbering. However, subsequent
 events indicate that we will take another 50' cheaper and faster
 with use of earth moving equipment now on the job. Eason will
 receive an hourly basis for this phase as it cannot be estimated
 by us or him to an exact degree of accuracy.
- 2. The ground for 25' above the tunnel line is so blocky that timbering will be costly and slow. (onsequently the present alignment will be the most efficient and less costly.
- 3. If you'll recall we had estimated that between 100' and 200' would probably have to be daylighted. This next 50' will make a total of 150' daylighted. The contract price for the first 100' could not be used for the next 50' as there is twice as many cubics. So instead of doubling the footage cost I suggested that we pay a staraight hourly price which I can halt at anytime we are not satisfied as it will cost less than a contract for footage gained

4. See photos in next week's report concerning this tunnel section.

CONSULTING MINING ENGINEERS

CABLE ADDRESS
WRENCO

May 16, 1963

PHONE GLADSTONE 6-0922 4297 D STREET SACRAMENTO, CALIF.

70 :

Anmoo Silver Mines, Inc.

FROM :

J. H. Wren

SUBJECT :

Weekly Report, May 8 through 14, 1963

a. May 8, 1963:

a). Boyle Tunnel contractors progressed.

b). Slippery road conditions due to snow and mud prevented Donothe Tunnel work.

2. May 9, 1963:

a). Set camp power poles.

6). Worked hourly time with shovel and D-6 Tractor bulldozen-nipper.

d. Hauled supplies.

D). Very bad weather - note photo.

3. May 10 , 1963 :

a). Need about 30' more of Byle Tunnel daylighting. Ground is too blocky and soft to handle as cheap as daylighting if we would now go underground. Will setup to pay hourly basis until finished.
b). Much snow, no surface work, no work at Dorothe Tunnel.

Weekly report May 8 through 14:

4. May 11, 1963:

a). Strung camp electrical service line.

b). No other work done on account of snow.

5. SUNDAY, May 12, 1963:

6. May 13, 1963:

a). No work at Boyle and Donothe projects due to snow.

b). Looked over crawler type underground diesel powered loader in San Francisco for the Boyle Tunnel. Machine was too big.

c). Placed numerous contracts for shuttle car and laader on nubber.

d. Handled negotiations for Apex Mill.

7. May 14, 1963:

a). Worked D-6 5% hours on strip above Boyle Tunnel.

b). Completed setup of Witte diesel-electric plant.

c). Drilled and blasted one round in the Donothe Tunnel.

8. Summany:

The Donothe Tunnel contractors were informed to get more footage. They have advanced only 55 feet plus sideswiping, back raising, track installation, equipment setup, pipe installation and regrading dump track.

The removal of Boyle Tunnel timber set caps at some past time allowed the ground to settle. Am going to work out the next 30' to the surface with the power shovel, bulldozer and a couple trucks.

The Apex mill has more inventory than Silver State Mines, Inc. needs. Como may be able to use the surplus units. All inventory negotiations have been finished and reports sent forward on the Apex transactions.

CONSULTING MINING ENGINEERS

CABLE ADDRESS WRENGO

PHONE GLADSTONE 6-0922 4297 D STREET SACRAMENTO, CALIF.

70: Armoo Silven Mines, Inc.

FROM : J. H. Wnen.

SUBJECT: Weekly Report, May 15 through May 21, 1963.

- 1. Total expenditures todate on the Como project including, full cost of pickup, insurance of all kinds, trailer house, camp supplies, tools, all labor and contracts' payment up-to-date is: \$ 13,433.95.
- 2. May 15: Hauled camp supplies, bulldozed Boyle Pontal area 7½ Hrs., drilled and mucked Donothe Tunnel, surveyed.
- 3. May 16: Bulldozed Boyle Tunnel overburden, Drilled and blasted, mucked 32 cars in Dorothe Tunnel
- 4. May 17: Drilled 20' holes Boyle Tunnel, Drilled, mucked, blasted Donothe.
- 5. May 18: Drilled Boyle, 20' holes, drilled, mucked, blasted Dorothe Turnel.
- 6. May 19: Sunday, no project work. When inspected diesel haulage equipment.
- 7. May 20: Drilled Boyle 20' holes, drilled, blasted, mucked Dorpthe Turrel.
- 8. May 21: Drilled, blasted 54 20' Boyle Tunnel holes, Drilled blasted
 Donothe Tunnel. Face is now 276' from Portal. A highly mineralized
 vein was hit at 251' of 5-6 Ft. width. It will be sampled-reported.
- Summany: Jensens are still trying to get two shifts on Donothe advance.

 See assay determinations reverse side of this sheet.

 Boyle Tunnel is progressing as fast as we can and still meet with cost requirements of November 5, 1962 estimate.

James A. When

CONSULTING MINING ENGINEERS

CABLE ADDRESS

May 18, 1963

PHONE GLADSTONE 6-0922 4297 D STREET SACRAMENTO, CALIF.

Mr. Chas. Oster. 40 West 1st Street Reno, Nevado.

Dean Mr. Osten:

The following will confirm our telephone conversations:

- 1. Tried to contact Mr. Walter McFadden, President of the Apex organization to obtain a cash price on the Austin mill, on the 17th. He was not available.
- 2. The good weather the past three days has allowed us to make good progress on the Boyle Turnel job. I am drilling and shooting 7,000 tons today. This will be the last, I believe, of the bad ground at the portal. It would be finished now if we had not lost most of last week's advance during storms.
- 3. The Donothe Tunne I contractors have to get three more men to build their crew out. They are supposed to have then coming out Monday. In the interim the Jensens are working straight through Sunday.
 - a). I sent samples of a mineralized break 48" wide into a laboratory for determinations. This vein cross the drift at 229' from the new portal.
- 4. I am drilling and handling the last 25' of the Boyle Tunnel daylighting job now. There will be about 140' of daylighted tunnel line. It was the only efficient and economical manner in which to do the job permanently.
- 5. There is some considerable metallungical work to do on your Rochester project. For you own information, a check sampling of your mine run reserves is highly in-order.

James H. When.

CONSULTING MINING ENGINEERS

CABLE ADDRESS WRENCO

May 29, 1963

PHONE GLADSTONE 6-0922 4297 D STREET SACRAMENTO, CALIF.

70: Annco Silver Mines, Inc.

FROM : J. H. Wren.

SUBJECT: Weekly Report, May 22 through 28, 1963.

1. May 22, 1963: Donothe Tunnel is in 271' feet from the newly established portal. (ontractors need a second shoft badly in-order-to obtain good daily advance. They also require a ventilation line. A 6' vein was cut in the Donothe Tunnel at 251 feet. Samples were taken. Tunnel line was surveyed.

1,000 tons of Boyle Tunnel nock was loaded and trucked out of the new cut to the dump.

2. May 23, 1963: Advanced borothe Tunnel one round on about 5% feet

Handled 750 tons of Boyle Tunnel nock.

(hecked camp water lines and found that they will require renewal. Springs require cleanaut and new transmission line

3. May 24, 1963: Drilled, blasted, mucked out Donothe Tunnel.

Orilled, blasted Boyle Tunnel overhang rock.

Rained all day. Laid off Boyle Tunnel equipment until ground dries out.

- Page One -

Anmco Silver Mines, Inc. Weekly Report May 22, through 28:

May 25, 1963: Drilled, blasted, mucked Vonothe Tunnel.

May 26, 1963: Sunday, no work on Boyle Tunnel, drilled, blasted mucked Donothe Tunnel.

May 27, 1963 : Handled 700 tons Boyle Tunnel.

Drilled blasted mucked Donothe Tunnel.

May 28, 1963: Rained all day but was able to handle 600 tons at Boyle Tunnel.

Jensens went to My Nevada to get blowing equipment and a second shift badly need on the Dorothe Tunnel project.

Summary:

Bad weather has affected progress during this period.

Unless some units become available for diesel haulage on rubber tires for the Boyle Tunnel, we shall have to install track and cars. Numerous public utility tunnel projects have depleted the market of used units. Delivery of new units is three to six months and cost is not within our budget.

The new vein hit in the Donothe Tunnel at 251' is not economic one. However, it is likely that drifting advance at some future time will open an one shoot on this accurrence as the vein is highly mineralized.

Expect to have the Boyle Tunnel Pontal open May 30, 1963. There will be cleanup to follow and then commencement of underground rehabilitation.

McFadden, Apex Company President is waiting for closing of mill regotiations.

James H. When

CONSULTING MINING ENGINEERS

CABLE ADDRESS WRENGO

June 6. 1963

PHONE GLADSTONE 6-0922 4297 D STREET SACRAMENTO, CALIF.

70: Annco Silver Mines, Inc.

FROM : J. H. Wren.

SUBJECT: Weekly Report, May 29 through June 4, 1963.

May 29, 1963: No work Dorothe Tunnel, contractors hauling supplies.

Handled 600 tons Boyle Tunnel, scaled back slope.

May 30, 1963: Opened Boyle Tunnel new portal, handled 700 tons. Found cave 70' feet from opening. It does not look too serious.

May 31, 1963: Scaled Boyle Tunnel Pontal back and side slopes. Cleaned grade line.

June 1, 1963: Drilled, blasted, mucked Donothe Tunnel.

Scaled Boyle Tunnel adjusted grade line.

June 2, 1963: Drilled, blasted, mucked Donothe Tunnel.

June 3, 1963: Drilled, blasted, mucked Donothe Tunnel.

(Leaned Boyle Tunnel grade line, removed notten timber from underground.

Inspected 250 ton mill at Austin, Nevada.

June 4, 1963: Drilled, blasted, mucked Donothe Tunnel. One new vein 4' wide crossed at 310' and another 2' wide at 320'
(Leaned notter timber out of 50' of Boyle Tunnel.

Note:

Henceforth a formal monthly report will be issued instead of weekly reports. Daily and monthly data can be seen in the mire office at any time.

James H. Wren.

Phone ELgin 9-9962

James H. Wren Armoo Silver Mines, Inc. Dayton, Nevada

ASSAY REPORT

MINERAL SERVICES, INC.

ASSAYERS & CHEMISTS

Merwin G. White, President Don Johns, Vice-President

158 South West Temple Street Salt Lake City 1, Utah

Lab # 2244-7

May 21, 1963

ASSAY PER TON OF 2000 POUNDS

									Lateral Lateral		
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10.00 CHARGES S.

Paid

CONSULTING MINING ENGINEERS

CABLE ADDRESS WRENGO

June 12, 1963

PHONE GLADSTONE 6-0922 4297 D STREET SACRAMENTO, CALIF.

70: Anmoo Silver Mines, Inc.

FROM: J. H. Wren.

SIBJECT: Weekly Report June 5 through 11, 1963.

1. June 6, 1963:

Excessive snow and nain, no project work accomplished.

2. June 6, 1963:

Drilled, blasted, mucked bonothe Tunnel. Too wet to work Boyle Tunnel. Made trip to Rochester.

- 3. June 7, 1963: Drilled, blasted, mucked Donothe Tunnel. No work Boyle Tunnel.
- 4. June 8, 1963: Drilled, blasted, mucked Donothe Tunnel. Rain and snow no Boyle work.
- 5. June 9, 1963: Orilled and blasted Donothe Tunnel. Heavy rains.
- 6. June 10, 1963:

Drilled-blasted Donother Tunnel. Received load of timber for Boyle Tunnel.

7. June 11, 1963: Onilled-blasted Donothe Tunnel

Sunnary:

a). Donothe Tunnel is now in 324' from new portal. Their first advance round was on May 6, 1963. However, before that date 197' of pipe, rail, sideswiping was done underground and 100' of pipe, switches, and track was laid on the surface. They need a second shift badly but have been unable to get miners. Reportedly they will have them Monday.

Summary, Continuation:

- b). Over 30,000 tons of material has been handled at the Boyle Tunnel portal. Throughout the years fault lines in the portal area for 150' have allowed the ground to settle, timber notted and some was taken out after suspension of operations in 1936. This has created a very bad ground condition. The portal needs four sets of timber which is being commenced now. 70' inside of the portal is a cave 15' wide by 30' high and has run out on the sides some 20' each way. This was an unexpected cave. After the timber sets have been removed and the new portal sets are in, am set up withat slusher to handle the above mentioned cave.
 - c). Need six men at this time to work on a three shift basis in the Boyle Tunnel. Am now trying to hire experienced men to handle rehabilitation.
- d). Serious thought should be given recovery of the (omo or Buckeye shaft for service lines. In the Boyle Tunnel almost 5,000' of air, water, electric cable and ventilation lines will be needed whereas only some 800' of service lines will be needed via of the shafts. The state laws require a zecond exit in any event so a decision should be made at this time with regard to this question.
- e). Every possibility is being sought relative to a nubber tired haulage setup with diesel power for the Boyle Tunnel. So far no equipment for rental-purchase has been located although numerous contacts have been made. This equipment will be needed within 10 days, if we are successful in hiring 6 new men now.
- f). 10,368 B. F. of timber was delivered to the mine for the Boyle tunnel portal @ \$55 per thousand board feet. 12"X12" and 4"x12" dimensions delivered are difficult to procure and usually cost \$100 M B F, FOB Lumber yard. Wedges also were bought at 04 ¢ eac'

CONSULTING MINING ENGINEERS

CABLE ADDRESS WRENCO

June 28, 1963

PHONE GLADSTONE 6-0922 4297 D STREET SACRAMENTO, CALIF.

70: Annco Silven Mines, Inc.

FROM : J. H. Wren.

SUBJECT: Como Mine Progress Keport for the Period June 12 through 27th.

1. Boyle Tunnel:

a). Balance of Portal rock was handled.

b). Two steel gets were installed at Pontal.

c). 170' of tunnel was cleaned and scaled.

d). 75 tons of caved ground was removed from the sloughed area 115' from portal. Spiling is now in progress here.

e). 6" steel sets were purchased at 5¢ per pound for some of the bad ground in the tunnel.

f). Electric lights were installed in the tunnel.

g). A night shift was started on June 24th.

h). If this cave is the last for the next 700' as is possible, some acceptable advance will be made during the month of July. If rubber tired equipment can be rented we could possibly be at the end of the Boyle Turnel by the end of July if no more than the a rticipated cave 800' from the old portal is experienced.

i). It is recommended to give consideration relative to rehabilitation of the (omo Shaft manyay. If the manway and a raise to the Boyle 'unrel is recovered we will save over 3,000' of air and power line purchase and installation and at the same time comply with Nevada Safety Laws regarding a second exit.

j). The steel sets at the Boyle Tunnel Pontal will be a permanent fixture which will never give future repair cost and time loss.

k). If haulage and loading equipment on rubber is acquired on a rental purchase basis soon, we can complete the Boyle Tunnel recovery next month, if we do not have more than one serious cave at the expected point 800' from the old portal.

2. DOROTHE TUNNEL :

- a). A night shift finally was installed by the contractors June 24th.
- b). Anthur Lakes is laying out the Vorothe funnel area geology.
- c). A 20 degree turn was started at 381' from the Portal. This will intersect the Easterly striking vein which intersects the Lucky Sunday Vein at the Highgrade Shaft Collar. If the Lucky Sunday Vein and the Easterly Vein maintain their respective dips to the Dorothe Turnel elevation we should contact our objective within the next three weeks.
- d). As of the end of shift, June 27th, distance from the Donothe Tunnel Portal to face was 396'.
- e). Progress to-date by the contractors is: 191' of track and pipe installation underground in the old tunnel section, 50' of side-swiping and back raising in the old tunnel section, 100' of surface air and water line installation, 145' of surface track and switches, machinery installation, and 200' of new tunnel.

3. MISC :

- a). Equipment procurement at reasonable prices is being sought continuously particularly the rubber tires loading-haulage units. With the exception of the latter units most other needed items have been procured or we know where to obtain them at nominal cost.
- b). (amp water Spring has been recovered. A service line will soon be laid.
- c). We do not furnish housing for employees. Some have their own trailer houses, others live in Dayton.
- d). Samples to start the Donothe Tunnel assay chart were sent out yesterday.
- e). Weather has affected progress to some extent while we were working at the Boyle Tunnel surface. Unusual rain and snow fell in May and June. As a matter of fact it is raining and snowing today, June 28th!

James H. Wren.

CONSULTING MINING ENGINEERS

CABLE ADDRESS WRENCO

July 4, 1963

PHONE GLADSTONE 6-0922 4297 D STREET SACRAMENTO, CALIF.

70: Anmoo Silven Mines. Inc.

FROM : J. H. Wren.

SUBJECT: Progress for the period June 28 through July 4, 1963.

1. Donothe Tunnel:

- a). Tunnel is now in 421' from portal. (ontractor advance = 225'.
- b). Arthur takes has spent two days surveying and making geologic observations. Tunnel line has been tunned 20 degrees to intersect a possible E-W vein. The bulldozen will be used tomorrow to channel surface to prove presence of this above vein.

2. Boyle Tunnel:

- a). 650 tons of caved tunnel line nock has been handled and three sets of timber installed at the cave some 100' from portal. There will be a large amount of timber and timbering time required to catch up the hole. Its dimensions are: 25'x12'x 18'.
- b). After handling the 650' tons of cave, it was found that the turnel line for at least 50' requires cleaning of slough and notten timber past the cave. The tunnel condition is fan worse than anticipated. We had not expected any cave for 800' from the original portal. This is seriously affecting rehabilitation time as well as cost.
- c). Various contacts are placed for mechanized loading-hauling equipment to work in the Boyle Tunnel. The tractor front end loader used under ground for the last cave has about served its useful purpose and cost is too high.

3. SUMMARY:

a). Two shifts are on Boyle Tunnel recovery and two shifts are on the Donothe Tunnel advance. This speeds up work and cuts down overhead refleaction.

James H. Wren