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03/31/88

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: HEAD CENTER

ALTERNATE NAMES:

CENTER OIL AND SMELTING CO.
AMERICAN ZINC CO.
FAR MINING ENTERPRISES
ARAVAIPA MINING CO.
HARWOOD
PATENTED CLAIMS MS 1040

GRAHAM COUNTY MILS NUMBER: 154B

LOCATION: TOWNSHIP 5 S RANGE 20 E SECTION 19 QUARTER SW
LATITUDE: N 32DEG 58MIN 41SEC LONGITUDE: W 110DEG 20MIN 20SEC
TOPO MAP NAME: COBRE GRANDE - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

LEAD SULFIDE
ZINC SULFIDE
COPPER SULFIDE
SILVER SULFIDE
GOLD

BIBLIOGRAPHY:

USGS PP 461, GEOLOGY OF THE KLONDYKE QUAD,
1964, P. 133
ADMMR HEAD CENTER FILE
AZBM BULL. 156, AZ. ZINC AND LEAD DEPOSITS
PART 1, 1950, P. 58-59
DENTON, T.C. ARAVAIPA LEAD-ZINC DEPOSITS,
USGS RI 4007, 1947, P. 4
ADMMR FILE
ADMMR FAR MINING ENTERPRISES FILE
ADMMR GRAND REEF FILE (HENDRICKSON REPORT)
ADMMR ARAVAIPA MINING DIST. GEOLOGY FILE
ADMMR ARAVAIPA DISTRICT LEAD-ZINC DEPOSITS,
FILE
ADMMR BRUSHY GROUP FILE
MINING CLAIMS LEAD FILE 86176
ADMMR U FILE

CONTINUED ON NEXT PAGE

CONTINUATION OF HEAD CENTER

MINING WORLD, VOL. 10, NO. 7, JUNE 1948, P.64
ELSING & HEINEMAN, AZ. METAL PRODUCTION,
AZBM BULL. 145, 1936, P. 93



A-51-26

1947



A-51-25

1946

HEAD CENTER

GRAHAM COUNTY

USBM RI 4007, p. 4, Feb. 1947

Aravapai District Lead-Zinc Deposits (file)
(In geology file)

... Mining Co. (file)

ABM # 156 p. 58

MAPS - Upstairs in the ABM rolled file boxes - several maps showing underground workings, assays and claims and geology

ARIZONA DEPARTMENT OF MINER RESOURCES
Mineral Building, Fairgrounds
Phoenix, Arizona

1. Information from: Fred A. Rebold or Riebold
Address: 202-5th Safford 85546
2. Mine: Aravaipa 3. No. of Claims - Patented Several optioned
Unpatented same.
4. Location: Aravaipa district & Klondyke mill
5. Sec _____ Tp _____ Range _____ 6. Mining District Aravaipa
7. Owner: FAR Mining Enterprises.
8. Address: as above
9. Operating Co.: same
10. Address: same
~~###~~ Fred A. Riebold
11. President: _____ 12. Gen. Mgr.: _____
13. Principal Metals: Au-Ag-Pb-Cu-Zn 14. No. Employed: 35
15. Mill, Type & Capacity: Flotation 175 tpd reported 125 tpd 2 shifts.
16. Present Operations: (a) Down (b) Assessment work (c) Exploration
(d) Production (e) Rate 125 tpd.
17. New Work Planned: _____

18. Misc. Notes: Head Center being mined from the 18th level and above and being dewatered. All present production from Head Center. Number one shaft has been retimbered and has a hoist but is not being worked at present. Earl Dowdle is at assay office, Bill Hurd at the mill and Edgar Koppen mine supt.

FAR Mining Enterprises obtains its ore from the Head Center Mine at Aravaipa.
GWI Quarterly Report 4/1/70

Date: 2-12-70

G. W. D. D.
(Signature)

(Field Engineer)

ROBERT H. SAYRE, JR.
MINING ENGINEER
220 - 27 ROAD-CH 2-5811
GRAND JUNCTION, COLO.

May 14, 1973

Mr. George Bott
Box 1670
Tucson, Arizona 85702

Dear George:

Thank you for your letter of May 7, 1973. I did not arrive in Safford until the evening of May 6th, which explains my not seeing you there. My partner and I were in the area May 6-9 to look over our Ash Peak / patented silver property 30 miles east of Safford.

My question with regard to Aravaipa is just this: Who, or what company, now owns the old Athletic Mining and Smelting Co. properties at Aravaipa? (Iron Cap, Grand Central and Head Center mines). I have heard that Goldfields Ltd. bought out American Zinc Co. If that is true, just what has happened to the old Athletic properties from an ownership standpoint?

I believe Aravaipa has a good potential for future production, and I certainly would appreciate your letting me know at your early convenience anything you know about the present ownership.

I enjoyed reading the leaflet about the United Nations.

Thanks, George, for writing.

Sincerely,



Robert H. Sayre

*Sorry I can't
make the
May 19
Tombstone
Meeting*

LV

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine **Athletic Mining Company -- Panama Shaft** Date **June 16, 1955.**
District **Aravaipa Mining Dist., Graham Co.** Engineer **Axel L. Johnson**
Subject: **Mine Report. Information from Elton J. Kidd, Mine Foreman.**

References For location and other information, regarding the Athletic Mining Co.,
see "Athletic Mining Co.--Head Center Mine" under same date.

Panama Shaft The Panama shaft sinking operations are continuing. The shaft (almost
vertical) is now down to a depth of 60 feet.

LV

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Athletic Mining Co. ---Head Center Mine Date Feb. 10, 1954
District Aravaipa Mining District--Graham Co. Engineer Axel L. Johnson
Subject: Report of Mining Operations.

Location Near Aravaipa, Arizona.

Owners and Operators Athletic Mining Co.
Harvey Horton, Manager, Safford, Arizona.
Elton Kidd, Mine Supt., Klondyke, Ariz.
Borden Burlison, Mill Supt., Klondyke, Ariz.

Metals Mined Zinc, Lead, with a small amount of Copper.

Number of Men Employed 23 men. 10 men at Head Center mine (2 miners, 6 muckers, 2 top men). 8 men at the mill. 5 truck drivers.

Production Rate 100 tons per day of ore mined and milled----mine working 1 shift, and mill operating 3 shifts---5 days per week.

Ore Values Ore mined averages from 11 to 12 % Zinc, and from 9 to 10 % Lead, with very little Copper. 12 tons of Zinc concentrates are obtained from the ore for every 9 tons of lead concentrates. The lead concentrates are shipped to the A. S. & R. smelter at El Paso, Texas. Zinc concentrates will probably be shipped to Amarillo, Texas in the future, as the Athletic Mining Co's zinc smelter is closed down.

Milling Facilities Ore is milled at the company's own mill near Klondyke. Mill operates 3 shifts for 5 days per week. Mill Superintendent reports that the ore is very difficult to mill, as the ore contains a small quantity of carbonates. Some of the Zinc (at times up to 20 %) goes into the Lead concentrate.

Present Mine Operations The mine (Head Center Mine) is mined by the Room and Pillar method. The mining is done quite cheaply----only 2 miners and 6 muckers producing 100 tons of ore per 8 hr. day.

Proposed Plans Company plans on doing some more development shortly, as they are getting low on ore reserves.

Head Center
Panama

LEAD-ZINC QUESTIONNAIRE

P.O. Box 772 Safford, Ariz
October 6 1957.

Do you approve of the Emergency Lead-Zinc Committee's seeking relief for the lead-zinc industry and has it your authorization to speak for you? Yes

What Arizona Mines and Mills in the lead-zinc class do you control?

- (1) Iron Cap - Head Center - Panama Mines
- (2) Athletes Mill @ Klondyke, Ariz.

Which ones are operating? (1) None (2) None

If not operating, when shut down? (1) 6/16/1957 (2) all down

Number employed, prior to shut-down, in mine, mill or sections thereof producing lead or zinc ores? (1) (2) 35 total

Number so employed on January 1, 1957? (1) (2) 55 total

Number so employed on October 1, 1957? (1) (2) 6 total

Remarks Shut down July 16, 1957 due to price of lead and zinc - returned to man only

Athletes Mining Co
Company
By: [Signature]
Signature

Please fill in NOW, tear off, and mail to:

Arizona Department of Mineral Resources
Mineral Building, Fairgrounds
Phoenix, Arizona

Information from Harvey

DEPARTMENT OF MINERAL RESOURCES

News Items

Norton

Date Aug. 17, 1951

Mine "Head Center", "Iron Cap", "Grand Central"

Location near Aravaipa, Arizona

Owner Athletic Mining Co.

Address Klondyke, Ariz.

Operating Co. Athletic Mining Co.,

Address Klondyke, Ariz.

Pres. _____

Genl. Mgr. Harvey Horton

Mine Supt. _____

Mill Supt. none at present

Principal Metals Lead & Zinc

Men Employed 50

Production Rate 150 tons { 120 tons mill
30 tons direct shipping

Mill, Type & Capacity Flotation used

in Mill - Gets Lead & Zn Concentrates

Power, Amt. & Type Lead Ore milled runs

2 to 3% Lead & 3 to 4% Zinc.

Concentrates run 65% Pb & 62% Zn

Signed

Carl J. Johnson
(Over)

Present Operations Mining ore from
Head Center, Iron Cap & Grand
Central mines. 30 tons of direct
shipping ore mined per day from
Grand Central (Oxide ores)

New Work Planned Finished repairing
shaft (Arizona shaft) to depth
of 569 ft. Water level now at
540 ft. Little water to pump.
Will start in 2 weeks to core

Misc. Notes Drill from the bottom
of the Arizona shaft.

Company was formerly the
Araraipa Mining Co. headed
by Lewis Douglas -

I inspected the mill and
the Arizona shaft and
one of the mines. Balance
of information obtained
from Harry Horton, Mgr.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Athletic Mining Co. --Head Center Mine Date April 4, 1957
District Aravaipa District, Graham Co. Engineer Axel L. Johnson
Subject: Field Engineers Report. Information from Borden Burleson. Not visited.

Location Near Aravaipa, Ariz.

Owners & Operators Athletic Mining Co.
Harvey L. Horton, Manager, 1025 -- 5th Ave., Safford, Ariz.
James Bryce, Mine Foreman, Klondyke, Ariz.
Borden Burleson, Mill Foreman, Klondyke, Ariz.

Principal Minerals Lead and Zinc, with a very small amount of Copper.

Present Mining Activity Ore production. Mining and milling about 75 tons per day. This is considerable less than reported on 6/16/55, when 100 tons per day was produced, and also less than reported on 2/16/56, when from 80 to 82 tons per day was produced. The capacity of the mill is 120 tons per day. Mr. Burleson reported that they are working the same number of men as before. My previous reports show as follows: Total of 23 men employed ---- 10 men at the Head Center Mine (2 miners, 6 muckers, & 2 top men); 8 men at the mill; and 5 truck drivers hauling ore. 2 shifts - 5 days per week, ~~3 shifts~~ at the mine, and 3 shifts - 5 days per week at the mill.

Ore Values Mr. Burleson reports that the mill feed now runs from 2 1/2 % to 3 % Lead and about 9 % Zinc. This is considerable less than previous reports.

Milling and Marketing Facilities Ore is milled at the Athletic Mill at Klondyke. This is a 120 ton mill using differential flotation producing lead and zinc concentrates. The lead concentrates (containing a small amount of copper) are shipped to the A. S. & R. smelter at El Paso, Texas. The zinc concentrates are shipped to the company's own zinc smelter at Ft. Smith, Arkansas.

Present Mining Operations Stoping ore by means of the Room and Pillar method. The mining is done quite cheaply, all the ore being produced with 2 miners and 6 muckers.

Remarks The Athletic Mining Co's Grand Central Mine and the company's Iron Cap mine have been closed down for about 4 years now. Reason for closing was given as the low price of lead and zinc. They could be opened up again and operated in case of an increase from the present price of lead and zinc.

NAME OF MINE: ✓ HEAD CENTER & Iron Cap COUNTY: Graham
 OWNER: (Athletic Mng. Co.) DISTRICT: Aravaipa
 METALS: Zn, Pb

OPERATOR AND ADDRESS		MINE STATUS	
Date:		Date:	
4/45	Roy Z. McKown, - Duncan H.L. Horton, Box 792, Safford	4/45	Shipping



LEAD-ZINC QUESTIONNAIRE

October 6 1957.

Do you approve of the Emergency Lead-Zinc Committee's seeking relief for the lead-zinc industry and has it your authorization to speak for you? Yes

What Arizona Mines and Mills in the lead-zinc class do you control?

- (1) Iron Cap - Lead Butte - Panama Mines
- (2) Athletic Mills @ Klondyke, Ariz.

Which ones are operating? (1) None (2) None

If not operating, when shut down? (1) 6/16/1957 (2) all down

Number employed, prior to shut-down, in mine, mill or sections thereof producing lead or zinc ores? (1) --- (2) 35 total

Number so employed on January 1, 1957? (1) --- (2) 55 total

Number so employed on October 1, 1957? (1) --- (2) 6 total

Remarks Shut down July 16, 1957 due to price of lead and zinc - returned to men only

Athletic Mining Co
Company

By: H. Hertox
Signature

Please fill in NOW, tear off, and mail to:

Arizona Department of Mineral Resources
Mineral Building, Fairgrounds
Phoenix, Arizona

Information from Hawley

DEPARTMENT OF MINERAL RESOURCES

News Items

Horton

Date Aug. 17, 1951

Mine "Head Center" "Iron Cap" "Grand Central"

Location near Aravaipa, Arizona

Owner Athletic Mining Co.

Address Klondyke, Ariz.

Operating Co. Athletic Mining Co.,

Address Klondyke, Ariz.

Pres.

Genl. Mgr. Harvey Horton

Mine Supt.

Mill Supt. none at present

Principal Metals Lead & Zinc

Men Employed 50

Production Rate 150 tons { 120 tons mill } 30 tons direct shipping

Mill, Type & Capacity Flotation used

in Mill - Gets Lead & Zn Concentrates

Power, Amt. & Type Lead Ore milled runs

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Concentrates run 65% Pb & 62% Zn

Signed

Carl L. Johnson
(over)

Present Operations Mining ore from
Head Center, Iron Cap & Grand
Central mines. 30 tons of direct
shipping ore mined per day from
Grand Central (Oxide ores)

New Work Planned Finished repairing
shaft (Arizona shaft) to depth
of 569 ft. Water level now at
590 ft. Little water to pump.
Will start in 2 weeks to core

Misc. Notes Drill from the bottom
of the Arizona shaft.

Company was formerly the
Araraipa Mining Co. headed
by Lewis Douglas-

I inspected the mill and
the Arizona shaft and
one of the mines. Balance
of information obtained
from Harry Horton, Mgr.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Athletic Mining Co. --Head Center Mine Date April 4, 1957
District Aravaipa District, Graham Co. Engineer Axel L. Johnson
Subject: Field Engineers Report. Information from Borden Burleson. Not visited.

Location Near Aravaipa, Ariz.

Owners & Operators Athletic Mining Co.
Harvey L. Horton, Manager, 1025 -- 5th Ave., Safford, Ariz.
James Bryce, Mine Foreman, Klondyke, Ariz.
Borden Burleson, Mill Foreman, Klondyke, Ariz.

Principal Minerals Lead and Zinc, with a very small amount of Copper.

Present Mining Activity Ore production. Mining and milling about 75 tons per day. This is considerable less than reported on 6/16/55, when 100 tons per day was produced, and also less than reported on 2/16/56, when from 80 to 82 tons per day was produced. The capacity of the mill is 120 tons per day. Mr. Burleson reported that they are working the same number of men as before. My previous reports show as follows: Total of 23 men employed ---- 10 men at the Head Center Mine (2 miners, 6 muckers, & 2 top men); 8 men at the mill; and 5 truck drivers hauling ore. 2 shifts - 5 days per week, ~~3x3shifts~~ at the mine, and 3 shifts - 5 days per week at the mill.

Ore Values Mr. Burleson reports that the mill feed now runs from 2 1/2 % to 3 % Lead and about 9 % Zinc. This is considerable less than previous reports.

Milling and Marketing Facilities Ore is milled at the Athletic Mill at Klondyke. This is a 120 ton mill using differential flotation producing lead and zinc concentrates. The lead concentrates (containing a small amount of copper) are shipped to the A. S. & R. smelter at El Paso, Texas. The zinc concentrates are shipped to the company's own zinc smelter at Ft. Smith, Arkansas.

Present Mining Operations Stoping ore by means of the Room and Pillar method. The mining is done quite cheaply, all the ore being produced with 2 miners and 6 muckers.

Remarks The Athletic Mining Co's Grand Central Mine and the company's Iron Cap mine have been closed down for about 4 years now. Reason for closing was given as the low price of lead and zinc. They could be opened up again and operated in case of an increase from the present price of lead and zinc.

NAME OF MINE: ✓ HEAD CENTER & Iron Cap COUNTY: Graham
 OWNER: (Athletic Mng. Co.) DISTRICT: Aravaipa
 METALS: Zn, Pb

OPERATOR AND ADDRESS		MINE STATUS	
Date:		Date:	
4/45	Roy Z. McKown, Duncan H.L. Horton, Box 792, Safford	4/45	Shipping



DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Athletic Mining Co. ---Head Center Mine Date Feb. 10, 1954

District Aravaipa Mining District--Graham Co. Engineer Axel L. Johnson

Subject: Report of Mining Operations.

Location Near Aravaipa, Arizona.

Owners and Operators ✓ Athletic Mining Co.
✓ Harvey Horton, Manager, Safford, Arizona.
✓ Elton Kidd, Mine Supt., Klondyke, Ariz.
✓ Borden Burleson, Mill Supt., Klondyke, Ariz.

Metals Mined ✓ Zinc, Lead, with a small amount of Copper.

Number of Men Employed 23 men. 10 men at Head Center mine (2 miners, 6 muckers, 2 top men). 8 men at the mill. 5 truck drivers.

Production Rate 100 tons per day of ore mined and milled---mine working 1 shift, and mill operating 3 shifts---5 days per week.

Ore Values Ore mined averages from 11 to 12 % Zinc, and from 9 to 10 % Lead, with very little Copper. 12 tons of Zinc concentrates are obtained from the ore for every 9 tons of lead concentrates. The lead concentrates are shipped to the A. S. & R. smelter at El Paso, Texas. Zinc concentrates will probably be shipped to Amarillo, Texas in the future, as the Athletic Mining Co's zinc smelter is closed down.

Milling Facilities Ore is milled at the company's own mill near Klondyke. Mill operates 3 shifts for 5 days per week. Mill Superintendent reports that the ore is very difficult to mill, as the ore contains a small quantity of carbonates. Some of the Zinc (at times up to 20 %) goes into the Lead concentrate.

Present Mine Operations The mine (Head Center Mine) is mined by the Room and Pillar method. The mining is done quite cheaply----only 2 miners and 6 muckers producing 100 tons of ore per 8 hr. day.

Proposed Plans Company plans on doing some more development shortly, as they are getting low on ore reserves.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

~~FIELD ENGINEERS REPORT~~

NEWS ITEM

Mine Athletic Mining Co. --- Head Center, Date April 10, 1952.
Iron Cap, and Grand Central Mines.
District Aravaipa Mining Dist., -- Graham Co. Engineer Axel L. Johnson
Subject: News Item --- Source of Information --- Allan Bosworth

Location Near Aravaipa, Arizona.

Owners and Operators Athletic Mining Co.

Officers ✓ Harvey Horton, Manager, Aravaipa, Ariz.
✓ Allan Bosworth, Mine Supt., Aravaipa, Ariz.
✓ Allan Hunt, Mill Supt., Aravaipa, Ariz. (resigned effective April 15th)

Metals mined ✓ Zinc, Lead, with a small amount of Copper.

Men Employed 30 men
10 men at Head Center, 10 men at Iron Cap, 7 men at mill, 3 men
supervisory capacity.

Production Rate ✓ Head Center ---- 30 to 40 tons per day.
✓ Iron Cap ----- 75 to 90 tons per day.
Total 120 tons per day average.
Note: - ✓ Grand Central Mine at present not operating/.

Milling Facilities Ore is milled at the Athletic mill at Klondyke. Capacity
of mill is about 120 tons per day (24 hr.) Mill superintendent claims that the
milling of the ore is rather difficult on account of oxides of Lead and Zinc being
present in the ore in varying amounts.

Ore Values Mill Heads run about as follows --- Zinc --- 9 to 10 %
Lead --- 3 to 4 %

Past Production The Grand Central Mine, which until recently mined Carbonate
ores, and shipped same direct to the smelter, is now closed down, as it ran low
on ore reserves.

Present Operations Company is now sinking the shaft at Head Center Mine an
additional 150 ft. on the incline --- from the 8th level to the 11th level.
Shaft sinking operations are now down to the 10th level. They are encountering
a great deal of water at that point, which is making the operation difficult.

Marketing Facilities Company is shipping the Zinc concentrates to their own
zinc smelter at Ft. Smith, Arkansas. They are shipping the Lead concentrates to
the A. S. & R. Co. smelter at El Paso, Texas.

(Axel L. Johnson)

MAY 6, 1953

Working one mine - the Head Center - the other two mines, the Iron Cap and Grand
Central, still remain closed on account of the low price of lead and zinc.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Athletic Mining Co. ----Head Center Mine Date Oct. 14, 1954.

District Aravaipa Mining Dist., Graham Co. Engineer Axel L. Johnson

Subject: Report of Mining Operations. Information from Elton J. Kidd, Mine Foreman.

Location Near Aravaipa, Ariz.

Owners and Operators ✓ Athletic Mining Co.
✓ Harvey L. Horton, Mgr., 1025 --5th Ave., Safford, Ariz. ---Mgr.
✓ Elton J. Kidd, Klondyke Store, Klondyke, Ariz. ----Mine Foreman.
✓ Borden Burleson, Klondyke, Ariz. -----Mill Foreman.

Metals Mined Zinc and Lead, with a small amount of Copper.

Number of Men Employed 23 at mine and mill (See my report of Feb. 10, 1954)

Production Rate About 100 tons per day of ore mined and milled. Mine working 1 shift, and mill working 3 shifts ---- 5 days per week.

Ore Values See my report of Feb. 10, 1954.

Milling Facilities See my report of Feb. 10, 1954.

Present Mine Operations See my report of Feb. 10, 1954.

Development Work The Head Center shaft has been extended to an additional depth of 200 ft. the past year, and this shaft is now 800 ft. deep. The Panama property also has a 30 ft. shaft.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Athletic Mining Co. --- Head Center Mine Date June 16, 1955.

District Aravaipa Mining Dist., Graham Co. Engineer Axel L. Johnson

Subject: Mine Report. Information from Elton J. Kidd, Mine Foreman.

Location Near Aravaipa, Ariz.

Owners and Operators ✓ Athletic Mining Co.
✓ Harvey L. Horton, Mgr., 1025 -- 5th Ave., Safford, Ariz.
✓ Elton J. Kidd, Mine Foreman, Klondyke Store, Klondyke, Ariz.
✓ Borden Burleson, Mill Foreman, Klondyke, Ariz.

Principal Minerals Zinc and Lead, with a small amount of Copper.

Number of Men Employed 23 at mine and mill.

Production Rate About 100 tons per day of ore mined and milled. Mine working 2 shifts----1 shift on production, and one shift on development. Mill working 3 shifts. 5 days per week.

Ore Values See my report of this property under date of Feb. 10, 1955.

Milling Facilities See report of Feb. 10, 1955. Milling is now easier (no carbonates).

Present Mine Operations See my report of Feb. 10, 1955.
Also operators are deepening the Head Center shaft. This shaft, which is inclined about 45 degrees, is now down to a depth of 900 ft. on the incline.

Marketing Facilities The lead and copper concentrates are shipped to the A. S. & R. mill at El Paso, Texas. The zinc concentrates are shipped to Ft. Smith, Arkansas.

References Company is also sinking the Panama shaft. See separate report on this property.

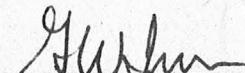
ARIZONA DEPARTMENT OF MINERAL RESOURCES
Mineral Building, Fairgrounds
Phoenix, Arizona

1. Information from: Office manager
Address: Box 447 Safford 85546
2. Mine: Aravaipa 3. No. of Claims - Patented _____
Unpatented _____
4. Location: Aravaipa
5. Sec 36 Tp 5 Range 19 6. Mining District Aravaipa
7. Owner: Some outright by FAR and some by lease to FAR
8. Address: _____
9. Operating Co.: FAR MINING ENTERPRISES
10. Address: 202 5 Safford 85546 or Box 447
11. President: _____ 12. Gen. Mgr.: Fred Riebold
13. Principal Metals: Au. Ag. Cu. Pb. Zn 14. No. Employed: 33
15. Mill, Type & Capacity: 175 TPD reported- Flotation
16. Present Operations: (a) Down (b) Assessment work (c) Exploration
(d) Production (e) Rate 20 tpd.
17. New Work Planned: Ore being mined from the Head Center mine which is being
opened up.
18. Miscl. Notes: Concentrates going to the El Paso smelter of ASARCO

Mine is the Head Center Mine at Aravaipa - operating - EWI No. 270/70

Far Mining Enterprises have started their mill and are getting the Head Center Mine ready for production. This inclined shaft mine has been the Aravaipa District's largest producer.
EWI Quarterly Report 2/27/70

Date: 12-11-69


(Signature)

(Field Engineer)

A GENERAL REPORT ON THE ARAVAIPA
MINING DISTRICT OF SOUTHERN ARIZONA WITH SPECIAL REFERENCE
TO THE PROPERTIES OF THE ARAVAIPA MINING CORP.

By H. Hendrickson (1928).

The Aravaipa Mining District is located in Western Graham County, about seventy miles northwest of Willcox, Arizona. Roughly, it comprises an area some ten miles long in the lower reaches of the western slope of the Santa Teresa Mountains.

Transportation Facilities.

The district lies about forty-five miles over a fair highway from the railroad at Cork, a siding on the Globe branch of the Southern Pacific. The lack of transportation facilities has been the main drawback to date of the district. However, there are two feasible routes to the railroad, which will greatly shorten the distance which ores and supplies have to be hauled, and greatly facilitate transportation in general. One route calls for a road down Black Rock Canyon to Fort Thomas on the Globe branch of the Southern Pacific. The other calls for a road westerly from Aravaipa to Winkelman, or Christmas, near Hayden. Both of these routes call for some twenty-five miles of new highway construction about half of which will be heavy mountain work, and the other half will be over fairly level ridges and mesas.

Geology.

The district lies in the foothills on the western slope of the Santa Teresa Mountains. The drainage is into the Aravaipa Canyon, and then into the San Pedro and Gila Rivers. The general trend of the ledges and ore bodies is from the southeast to the northwest. In the Grand Reef Mine, some four miles from Klondyke, which will be considered the southern end of the district, there is an immense silica-breccia ledge some hundred feet wide, and projecting several hundred feet into the air. This is apparently on the main fault, connected with the main uplift of the mountains to the east, probably representing a throw of several thousand feet. The hanging, or western wall of the immense ledge is of soft rhyolitic tuff. The foot wall is a greenish basic igneous rock which occupies a narrow area of two or three hundred feet in most places between the ledge and the main granite mass of the mountain. The ledge itself marks the eastern boundary of the sediments of the region in some places, but in many places the hanging wall country is in acidic igneous rock.

This big ledge can be traced for about five miles. It often disappears, or pinches down to a very narrow width, and then again swells and presents a bold outcrop. It traverses several big canyons between the Grand Reef and Aravaipa, and nearly everywhere shows small amounts of lead ore. The country traversed by this ledge is all igneous until Bullis Mountain, about a mile south of Aravaipa, is reached. Traversing Bullis Mountain, the ledge enters the carboniferous limestone of the region, and from this point north its general character changes.

On the properties of the Aravaipa Mining Corporation, the predominating country rock is the carbomiferous "tornado" limestone of the Globe-Miami district to the north, although there also are not inconsiderable areas of igneous materials traversed by the ore-bearing veins.

There seem to be three types of ore deposits on the Aravaipa property. First, there are immense areas of tremolite, or actinolite, which invariably carry lead and zinc ores.

Second, there are bodies in the limestone which appear to be true limestone replacement deposits, and are generally evidenced by siliceous outcrops in the limestone.

Third, there are several true fissure veins, both in the limestone and in the igneous material.

Generally speaking, the ores in the igneous rock carry better silver values than in the limestone.

To describe these various deposits in detail and give a fairly comprehensive description of the district, it is best to start with the Grand Reef property at the southern end of the areas. This property was originally owned by John Mackay, of Comstock fame, who held the thring for many years with the idea that he had a second Comstock. It is now owned by the Aravaipa Leasing Company, which in turn is controlled by the American Zinc Lead and Smelting Company.

To repeat, it is a big siliceous breccia fissure vein with a width, in places, upward of a hundred feet. The vein dips about seventy degrees to the west, and strikes northwest twenty degrees. The hanging wall is a soft rhyolitic tuff. The footwall which is not very well defined, is a greenish basic igneous rock which is of no great width between the vein and the main granite mass of the mountain.

Upwards of thirty-thousand tons of ore have been mined from the Grand Reef property, and there is considerable good ore left in the mine. It is developed by a tunnel which is a drift on the ledge some three hundred feet below the surface. This tunnel is one thousand five hundred feet long, and explores two ore shoots, and a long area of very low grade ore, which can hardly be considered ore under any conditions. A shaft has been sunk three hundred feet deep from this adit level, and several hundred feet of work have been done on the various levels. In the vicinity of this shaft, and above the tunnel, some thirty thousand tons of ore have been mined in an immense open stope. The average grade of this ore was twelve percent lead, eleven ounces of silver, and one percent copper. There is no gold in the ore, concentrates seldom running even their required sixty cents gold in order to be paid for by the smelter. Above the tunnel level, and practically everywhere, the ore as seen in the Grand Reef ~~is~~ zinc free, running less than one percent everywhere.

This ore extends below the tunnel to the hundred foot level, where it is both smaller in area and lower in lead content than in the tunnel above.

On the two hundred foot level, which is a hundred feet below the water level, a width of about five feet, and a length of about sixty feet, is exposed which will assay about five percent copper and twenty ounces of silver. The ore here is of an entirely different character than in the levels above, being a soft aluminous material, carrying sooty black chalcocite, and a few percent lead as galena, which is so intimately and finely mixed as to be with difficulty discerned.

On the three ^{hundred} thousand foot level, a wider and apparently larger area is exposed. It is more oxydized than in any other part of the mine, and shows five or six ounces of silver, with very few copper and lead minerals to be seen.

The natural conclusion here is that there is a possibility of a big copper-silver ore body being found at some depth. However, an abortive attempt at diamond drilling here proved a failure. This diamond drilling was done by the American Zinc Lead and Smelting Company. Reliable information is that they did not succeed in getting a hole down to the area of possibility.

There are several other exposures of workable ore on this Grand Reef ledge, notably the Dog-water, a half mile to the south, where there is an exposure of ore some two hundred feet long and a foot or two wide, the best of which will run some twenty percent lead and thirty ounces of silver. Generally speaking, the property is well worth investigation by anyone looking for lead ores.

and The Bullis property is ~~on~~ on the same fault, or vein system, some four miles north of the Grand Reef, a mile south of the Aravaipa Post Office, is also a true fissure ^{of} igneous rock. It is very similar in structure to the Grand Reef Mine itself, except that in one place it traverses quite a block of limestone. This ledge has been cut by an adit tunnel some two hundred feet below the outcrop. It shows widths of ore up to and exceeding twenty feet in places. The one ore body mentioned has been estimated by various engineers to contain fifty thousand tons of ore which will assay about fifteen ounces of silver and two percent lead. It is an ore which would be very difficult to mill as a small amount of copper present precludes cyaniding, and the fact that a large part of the silver is present as chloride renders any concentration process difficult.

Properties of the Aravaipa Mining Corp.

Entering the limestone area to the north of Bullis, owned largely by the Aravaipa Mining Corporation, entirely different structural and geological conditions are encountered.

In place of a single big fissure there are many prominent fissures traversing the limestone, and other rocks with the same general strike and dip. In place of the ore being confined to this single fissure, it occurs in various places over an area with an east-west dimension of several miles. The various workings, a starting with the south end of the property, are described below.

On the Sand-Carbonate claim, which is a few hundred feet south of the mill and power plant, a big width of ore is indicated on the surface by the outcropping in the limestone of lead and zinc carbonates and calamine. While the width of the ore here exposed is evidently upward of one hundred feet, it is predominately low grade in lead and very zincy. In one place a small incline has been sunk about twenty feet, and it shows a foot or carbonate which will assay about sixteen percent lead and twenty-two percent zinc. The walls are largely zinc carbonate. Another small hole has been started on the out-cropping and shows a lot of zinc and lead carbonates of no special interest. However, there is here a big area of black tremolite which probably indicates a big lead-zinc ore body below. The mill excavation itself is largely in this black actinolite, or tremolite, and will assay considerable zinc.

On the Number Two claim, about two hundred feet west of the mill, is an open cut which shows a big body of lead-zinc carbonate and calamine. Surface indications here are that it is probably there a big tonnage of this stuff. Ore from this cut as mined to date has averaged above eight percent lead and twenty-two percent zinc with one dollar gold and an ounce of silver. However, there are several streaks of rather high grade lead carbonate exposed. This ore body has not been prospected at any depth. It may be big.

On Number One claim, in the canyon to the north of the mill, is the working know as the Number One. A considerable tonnage of lead-zinc carbonate has been mined here. On the hundred twenty-nine foot level an ore body has been developed which is about three hundred feet long and forty-feet wide. There is a streak on the foot wall, some fifteen feet in width, which will average about twelve percent lead and eighteen percent zinc, with spots of higher grade material at irregular intervals. The rest of the area is oxidized zinc ore, in places very high grade. To the east, the ore body degenerates into a bunch of apparently barren fissures; to the west our last work was still in ore with no walls apparent, but the lead content had dropped to about eight percent, and the zinc content had raised to about thirty-five percent. It may continue to the northwest for some distance where an incline was sunk for another hundred feet in the footwall of this ore body. The fissure was cut but the ore was never found. It is believed to have a very flat pitch to the northwest of the inter-section of two of these fissures, in the limestone, and for that reason was not encountered on the level below. The stopes in this ore body have caved to the surface, and, while the incline shaft in the hard footwall is surely in good shape, water from the creek has run into and filled the workings and they are not now accessible.

The Nina, some four hundred feet northeast of the Number One, is an exposure on the north-south fissure, some sixty feet long and five feet wide, of ore which will assay about fifteen percent lead and twenty percent zinc, as carbonate and silicate. Following this same break to the north, several small similar outcrops are encountered until some 5000 feet to the northwest the Arizona Shaft is reached. This showing merits considerable discussion and in itself may develop into a big mine.

At the Arizona, igneous material is again encountered. The ore deposits is manifested on the surface by a big prominent vein outcropping for some one thousand feet of length and generally running from five to ten feet wide. About a quarter mile south of the shaft the carboniferous limestone can be noted apparently covered by the igneous material. The igneous rock is here a basic porphyry with large white phenocrysts of feldspar. Where the vein intersects the contact between the porphyry and the limestone in an immense area of black tremolite carrying small amounts of lead and zinc materials. Returning to the Arizona Shaft about a quarter mile to the north; the ore here is in the big fissure mentioned before. An adit has been run into the vein and about a thousand feet of drifting has been done. For the greater part of this length the vein is soft, loose, oxidized material carrying small amounts of lead and zinc carbonates and an occasional strain of silver chloride. To the north the vein tightens up and is filled with hard quartz carrying a considerable amount of galena.

The shaft was started vertically in the outcrop and is about six hundred feet deep. The vein does not leave the shaft until the 300 foot level is reached at which point it starts diverging to the west. On the 400 foot level the vein lies about twenty-feet to the west of the shaft. From the surface to this level the vein carries a width of two to three feet of ore running about 13% lead, a little silver, and considerable zinc. On the 450 foot level the vein cannot be seen but a big area of red oxidized materials has been exposed by a considerable amount of drifting and crosscutting. On the 500 foot level the limestone appears and a big area of blocks of limestone, mixed with red Hematite and large amounts of tremolite can be seen. The water level generally stays about this level. Between the 500 and the 560, which is the bottom level, the shaft goes through a loose limestone and mud, consisting of oxidized gossan material and tremolite. The bottom of the shaft which is the 560 foot level is in good grade lead zinc ore. A small amount of drifting was done here and at the time of shutting down prospects were very favorable indeed. There is an ore body on this level about fifty feet wide and it has all the earmarks of being of great extent.

An attempt to drift south along the ore was frustrated by the drift caving in while being timbered. The face of the drift at the time it was abandoned assayed 22% lead and 22% zinc. The shaft should still be in good shape as it was retimbered from top to bottom. It is believed that this ore shaft will develop into a big mine.

Returning to the vicinity of the Number One Shaft, a break similar to the one just described and parallel to it at a distance of some six hundred feet to the east is encountered. Several large areas of zinc-lead are encountered along the fissure, and where last seen to the north is a big area of tremolite and ore on the surface. Zinc seems to predominate on the fissure. In one place there is an exposure which assays 40% zinc, and 6% lead. There is very probably an enormous tonnage of this material.

About two miles to the east of the main group of claims are two claims called the "Head Center" and the "Grand Central" which are contiguous on their ends.

A small fissure some five feet wide can be traced for the entire length of the two claims. Ore is shown everywhere and there is one large area which is very interesting. Two inclines have been sunk. In the one on the "Head Center" the ore is about five feet wide and in the sulphide which has just been reached assays 12% lead and 18% zinc, - 3.5 ounces of silver and \$1.00 gold. This fissure also enters a big area of open caves and may make a mine in itself. Farther south on the "Grand Central" claim an incline has been sunk about 100 feet. The ore here insofar as developed is entirely oxidized. While it looks like white quartz, the entire incline will average 15% lead, 30% zinc, 0.15 gold, and 1.5 ounces of silver. This "Head Center", "Grand Central" fissure looks very promising and can well develop into a good mine with its greater precious metal content.

On the same hill as the vein just described, but over the top and on the eastern slope at a distance of one half mile lie three claims known as the "Ironcap", "Ironton" and "Ionia". The formation here is entirely different. There are several big black areas of tremolite which show a lot of lead and zinc. The one on the "Iron Cap" covers an area of 200 by 600 feet on the surface and is partially developed by a tunnel some 200 feet below, and a smaller one higher up.

There is considerable tonnage, possible 25,000 tons of stuff developed here which will assay 15% lead and 18% zinc. There is also a big probable tonnage of low lead and high zinc. The zinc is a beautiful lemon yellow, transparent sphalerite, and makes a very high grade concentration. Values in precious metals are negligible.

In summary, the area described contains, without question, an extremely large tonnage of lead-zinc ore. Transportation presents the greatest difficulty but it is believed that the possibility for tonnage is more than enough to justify solving this difficulty and that one of the greatest lead-zinc mines in the country can be developed.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Athletic Mining Co. -- Head Center Mine Date Sept. 5, 1957

District Aravaipa District, Graham County.

THE ARIZONA DEPARTMENT OF MINERAL RESOURCES
Engineer Axel L. Johnson
MAKES NO REPRESENTATION AS TO THE ACCURACY
OF THE CONTENTS OF THESE DOCUMENTS.

Subject: Present Status. Information from Borden Burleson, Mill Foreman.

References Reports of April 4, 1957 and June 5, 1957.

Location Near Aravaipa, Ariz. THE ARIZONA DEPARTMENT OF MINERAL RESOURCES
MAKES NO REPRESENTATION AS TO THE ACCURACY
OF THE CONTENTS OF THESE DOCUMENTS.

Owners and Operators Athletic Mining Co.
Harvey L. Horton, Mgr., 1025 -- 5th Ave., Safford, Ariz.

Principal Minerals Lead and Zinc, with a very small amount of Copper.

Present Mining Activity None. Mine is closed down.

After all the broken ore had been milled, and a small amount of exploration work had been completed, the mine was shut down completely as of July 15th, 1957. The mine, it is reported, is now being allowed to flood. One caretaker remains on the property as watchman.

The mill, now idle, may be used later to treat the ore from the T Bone and Sein Fein mines, if the proper arrangements can be made for treating the ore from these mines.

It was reported by Mr. Burleson that the company's zinc smelter at Ft. Smith, Ark. is now operating at about 50 % capacity.

Remarks An early resumption of mining operations on the Head Center, and the other mines in the Klondyke-Aravaipa District owned by the Athletic Mining Co. seems quite remote, unless there is a substantial increase in the price of lead and zinc.

THE ARIZONA DEPARTMENT OF MINERAL RESOURCES
MAKES NO REPRESENTATION AS TO THE ACCURACY
OF THE CONTENTS OF THESE DOCUMENTS.

Information from MINE INSPECTOR'S OFFICE - August 15, 1957

HEAD CENTER MINE, Safford, Ariz. (Athletic) - 32 claims 3-16-57

Oper. ATHLETIC MINING CO (Aravaipa Dist) GRAHAM CO. 35 Men-1800 tons.
Safford, Arizona - P.O. Box 792

Pres.: Raymond F. Orr, P.O. Box 540, Ft. Smith, Ark.

Sec.: A. K. Orr " " "

Supt: James Bryce - Klondyke, Ariz.

Z, Pb, Cu
G. S.

L.A.S.

See: "ARIZONA DIST. LEAD-ZINC DEPOSITS" (file)
(In Geology file)

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Not for publication

Mine **Athletic Mining Co. -- Head Center Mine**

Date **June 5, 1957**

District **Aravaipa District, Graham County.**

Engineer **Axel L. Johnson**

Subject: **Present Status. Information from Borden Burleson and Elton Kidd. Not visited.**

References Report of April 4, 1957.

Changes from report of April 4, 1957.

Ore Values Mr. Burleson ~~now~~ reports that the mill feed now runs about 3 1/2 % lead and 9 to 10 % Zinc, with about 1.5 % Copper. He reports that the lead and zinc is mostly all sulphides giving fairly good mill recovery. He states, however, that the Copper is considerably oxidized, and only about one-half of the copper is recovered in the milling operations.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Athletic Mining Co. --Head Center Mine Date April 4, 1957

District Aravaipa District, Graham Co. Engineer Axel L. Johnson

Subject: Field Engineers Report. Information from Borden Burleson. Not visited.

Location Near Aravaipa, Ariz.

Owners & Operators ✓ Athletic Mining Co.
✓ Harvey L. Horton, Manager, 1025 -- 5th Ave., Safford, Ariz.
✓ James Bryce, Mine Foreman, Klondyke, Ariz.
✓ Borden Burleson, Mill Foreman, Klondyke, Ariz.

Principal Minerals Lead and Zinc, with a very small amount of Copper.

Present Mining Activity Ore production. Mining and milling about 75 tons per day. This is considerable less than reported on 6/16/55, when 100 tons per day was produced, and also less than reported on 2/16/56, when from 80 to 82 tons per day was produced. The capacity of the mill is 120 tons per day. Mr. Burleson reported that they are working the same number of men as before. My previous reports show as follows: Total of 23 men employed ---- 10 men at the Head Center Mine (2 miners, 6 muckers, & 2 top men); 8 men at the mill; and 5 truck drivers hauling ore. 2 shifts - 5 days per week, ~~at the mine~~ at the mine, and 3 shifts - 5 days per week at the mill.

Ore Values Mr. Burleson reports that the mill feed now runs from 2 1/2 % to 3 % Lead and about 9 % Zinc. This is considerable less than previous reports.

Milling and Marketing Facilities Ore is milled at the Athletic Mill at Klondyke. This is a 120 ton mill using differential flotation producing lead and zinc concentrates. The lead concentrates (containing a small amount of copper) are shipped to the A. S. & R. smelter at El Paso, Texas. The zinc concentrates are shipped to the company's own zinc smelter at Ft. Smith, Arkansas.

Present Mining Operations Stoping ore by means of the Room and Pillar method. The mining is done quite cheaply, all the ore being produced with 2 miners and 6 muckers.

Remarks The Athletic Mining Co's Grand Central Mine and the company's Iron Cap mine have been closed down for about 4 years now. Reason for closing was given as the low price of lead and zinc. They could be opened up again and operated in case of an increase from the present price of lead and zinc.

Mr. Horton said they were in a wide shoot and installing large - 15³ H.P. - shaker in center of 4 radial headings.

HEAD CENTER

GRAHAM

It was reported but not confirmed that A.M. Rebald and Associates shipped 100 T of ore from the Head Center mine to the Tonto Basin mill and that they then shut down. GWI AR 73-74

This property is idle. VBD WR 9/25/75

MG WR 10/16/81: Caller inquired about mine files on the Head Center and Iron Cap mines of Graham County. He reported that the Claridge family owns 27 patented mining claims comprising the Head Center and Iron Cap properties. He mentioned Wilford Claridge, 513 1st. Thatcher, AZ, phone 428-3342, as one of the owners.

HEAD CENTER

GRAHAM COUNTY

The Center Oil and Mining Co. were apparently unable to raise the necessary money to continue with their operations at the Klondyke mill and the Head Center Mine in Aravaipa. GWI QR 9/71

Left Morenci early in the morning and drove to Klondyke Mill at Klondyke, Arizona. At the mill I talked to Mr. Tom Ward who is watching the property and lives in one of the watchmans' houses there and he said there was very little activity at the present. GWI WR 10/12/72

George Bott said that Mike Reibold is back in the Aravaipa district with money to pay off past debts and assume ownership or control of the mining properties he previously held and also to acquire new ones. He is reported to have acquired certain of the Faulkner properties near Safford for \$100 cash. GWI WR 8/28/73

Mr. George Bott brought in an article relating to activity in the Klondyke area. It stated that the Kop-Ran Development Corporation (subsidiary of Ranchers) is doing development work on Head Center mine in the district for Mr. Riebold. REL WE 10/10/73

Mr. George Bott came in and talked about his deal with Mr. Riebold on the Klondyke property. He also wondered when I could get out to Klondyke with him. I told him that I had so much office work to do that I would not do it in the near future. REL WR 10/22/73

Mine visit at Head Center mine; now closed. A contractor had mined and stockpiled several truckloads of ore for Mike Reibold. Mr. Ward, the watchman, did not know of future plans. He showed me where they had done some bulldozer prospecting at the camp. GWI WR 10/24/73

HEAD CENTER

GRAHAM COUNTY

Elton J. Kidd has sold his store at Klondyke and moved to Safford. ALJ 5-5-60

Properties of the Athletic Mining and Smelting Corp., located in the Aravaipa-Klondyke area of Graham County, have been sold to American Zinc Co. Included in the sale were the Head Center, Panama, Grand Central, and Iron Cap mines, together with mine buildings and the mill. These properties and the 150-ton flotation mill were last active in 1957, at which time the low prices for lead and zinc, together with depleted ore reserves, forced a shutdown. American Zinc owns several other claims in the Klondyke area on which assessment work has been maintained for a number of years.

Taken from Metal Mining & Processing Feb. 1964 p. 15

Mine visits to the Head Center and Grand Central mines - no activity. GWI WR 4-2-67

FAR Mining Enterprises - now opening up Head Center mine. Plan to operate mill soon. GWI 10-14-69 See FAR Mining Enterprises (file)

Mine visit to Head Center mine at Aravaipa - operating. GWI WR 2-14-70

FAR Mining Enterprises have started their mill and are getting the Head Center Mine ready for production. This inclined shaft mine has been the Aravaipa district's largest producer. GWI QR 2-27-70

FAR Mining Enterprises obtains its ore from the Head Center mine at Aravaipa. GWI QR 4-1-70

Active Mine List May 1970 - 6 men - Fred Riebold, Gen. Mgr. - Box 447, Safford
Active Mine List Oct. 1970 - ?

The Center Oil & Mining Co., Box 159, Duncan, Oklahoma, 73533 has taken over the operations of the FAR Enterprises. This includes the patented claims at Aravaipa and the Klondyke mill. At present the mill is operating with 11 men. A contractor has 11 men working at the Head Center mine with plans to start production from the Iron Cap. Mr. Miles Jackson, Box 54, Klondyke, 85643 is in charge. GWI QR 12-31-70

Mill visit - Klondyke mill operating on ore from Head Center mine. GWI WR 2-16-71

Aravaipa-Klondyke: The Center Oil & Mining Co., Miles Jackson, 326-8th Street, Safford, is operating the Klondyke mill. The ore is from the Head Center mine and is mined by Mr. Bob Mitchell on a contract basis. The mine and the mill each employ 10 persons or 20 in all. The concentrates are shipped to El Paso (ASARCO). The concentrates are jig running about 50% lead with a little zinc with some silver and gold. GWI QR 4-1-71

Shipped 5 trucks of concentrates in January and 6 trucks in December to AS&R smelter in El Paso. GWI 7-27-71

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine
District
Subject:

Date Jan. 20th, 1945
Engineer A. Macfarlane
Box 506 Globe, Ariz.

✓
Mr Roy Z. McKowan
Duncan, Arizona.

Dear Mr McKowan ;

I answered your wire today and stated you can ✓
legitimately apply now for an R.F.C. loan based on your Head Center
lease.

I trust this may be the foundation of starting the Duncan mill
off as a custom lead, zinc, copper plant.

Shortly after February 1st, I may be of assistance to you
in making your loan application, will then be over in your locality.

Snowing like the devil here for the past 20 hours, this will
slow us all down for a few days; glad you got the lease on the Head Center
and hope you will do well with it.

Very truly Yours.

Field Office Dept. of Mineral Resources.

✓
Head Center is one of the main veins
of the Athletic Mining Co. of Arizona

~~Doyle note~~
Please

DEPT. MINERAL RESOURCES
RECEIVED
JAN 22 1945
1945

DEPT. MINERAL RESOURCES
 RECEIVED
 MAR 26 1945
 PHOEN 1944

DEPARTMENT OF MINERAL RESOURCES

REPORT TO OPA ON
 ACTIVE MINING PROJECT

Date March 7 1945
 Name of Mine Head Center & Norman King
 Owner or Operator Roy Z. McKown
 Address Duncan Ariz.
 Mine Location Klondike and Duncan Ariz

Filing Information
 File System.....
 File No.....
 This chart to be used for gallons of gasoline required per month.

PRESENT OPERATIONS (check X)

Production ; Development ; Financing.....; Sale of mine.....;
 Experimental (sampling) ; Owner's occasional trip ;
 Other (specify) preparing to operate

PRODUCTION: Past and Future.

Tons

Approx. tons last 3 months
 Approx. present rate per 3 months
 Anticipated rate next 3 months 400
 If in distant future check (X) here

EQUIPMENT OPERATED:

Type	Quantity or Horse Power	Miles or Hours Per Month	Gallons Required Per Month
Personal Cars	<u>26</u>	<u>1000</u>	<u>150</u>
Light or Service Trucks			<u>75</u>
Ore Hauling Trucks			
Compressors			
Other Mine or Mill Eqpt.			

PRODUCT PRODUCED OR CONTEMPLATED: Name metals or minerals.

Lead & copper

REMARKS:

arranging to start ore shipments

By R. Macfarlane

CLASS OF SERVICE

This is a full-rate Telegram or Cablegram unless its deferred character is indicated by a suitable symbol above or preceding the address.

WESTERN UNION

A. N. WILLIAMS
PRESIDENT

1201

SYMBOLS

- DL = Day Letter
- NL = Night Letter
- LC = Deferred Cable
- NLT = Cable Night Letter
- Ship Radiogram

Handwritten initials

The filing time shown in the date line on telegrams and day letters is STANDARD TIME at point of origin. Time of receipt is STANDARD TIME at point of destination

PS50 NL PD=SPRINGFIELD ILL 19 A

1945 JAN 19 PM 3 24

MACFARLANE=

CARE DEPT MINERAL RESOURCES GB=

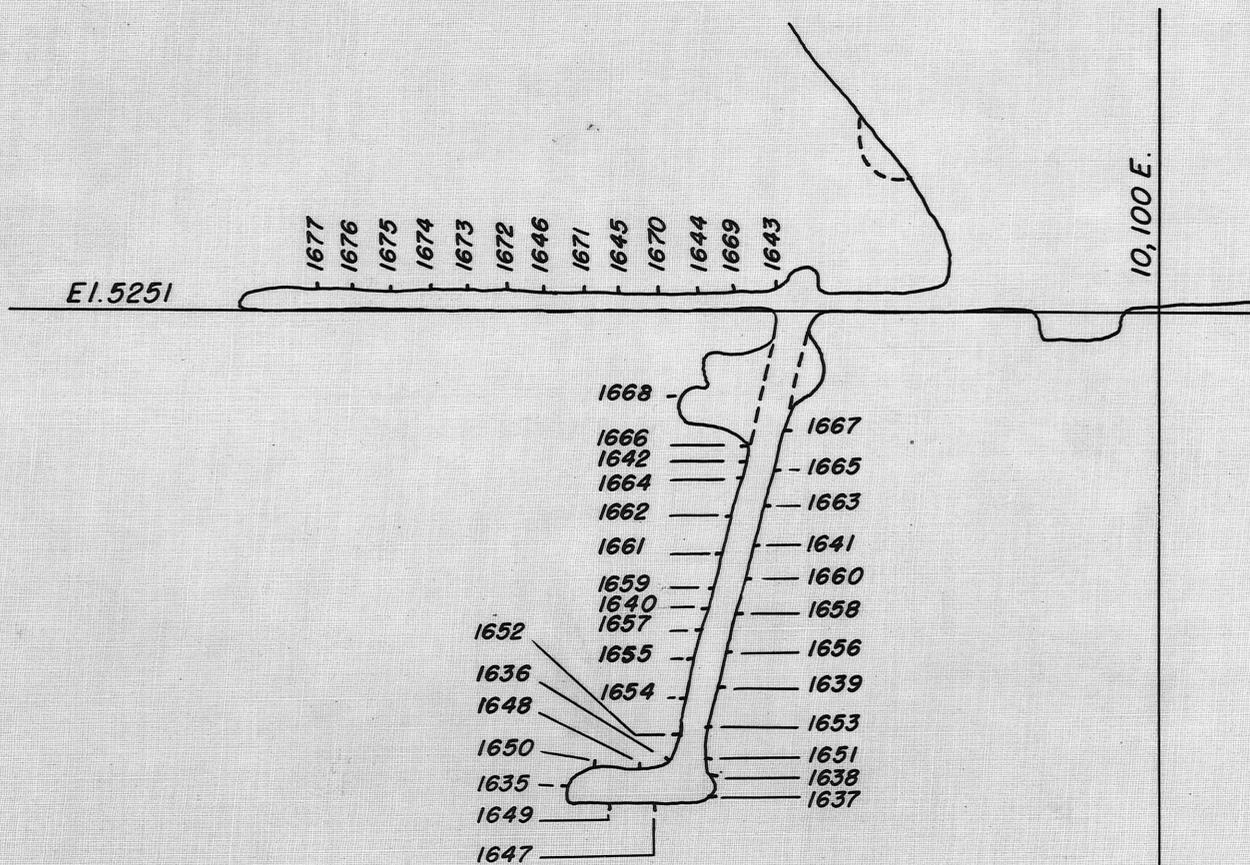
HAVE LEASED HEAD CENTER DO YOU CONSIDER IT ADVISABLE TO
APPLY RFC FOR OPERATING LOAN PLEASE ANSWER CARE WESTERN
UNION=

ROY Z ✓ MCKNOWN

RFC MCKNOWN

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

*Need to scan
replace in
acro.*



○ Hole No. 2

○ Hole No. 1

○ Hole No. 3

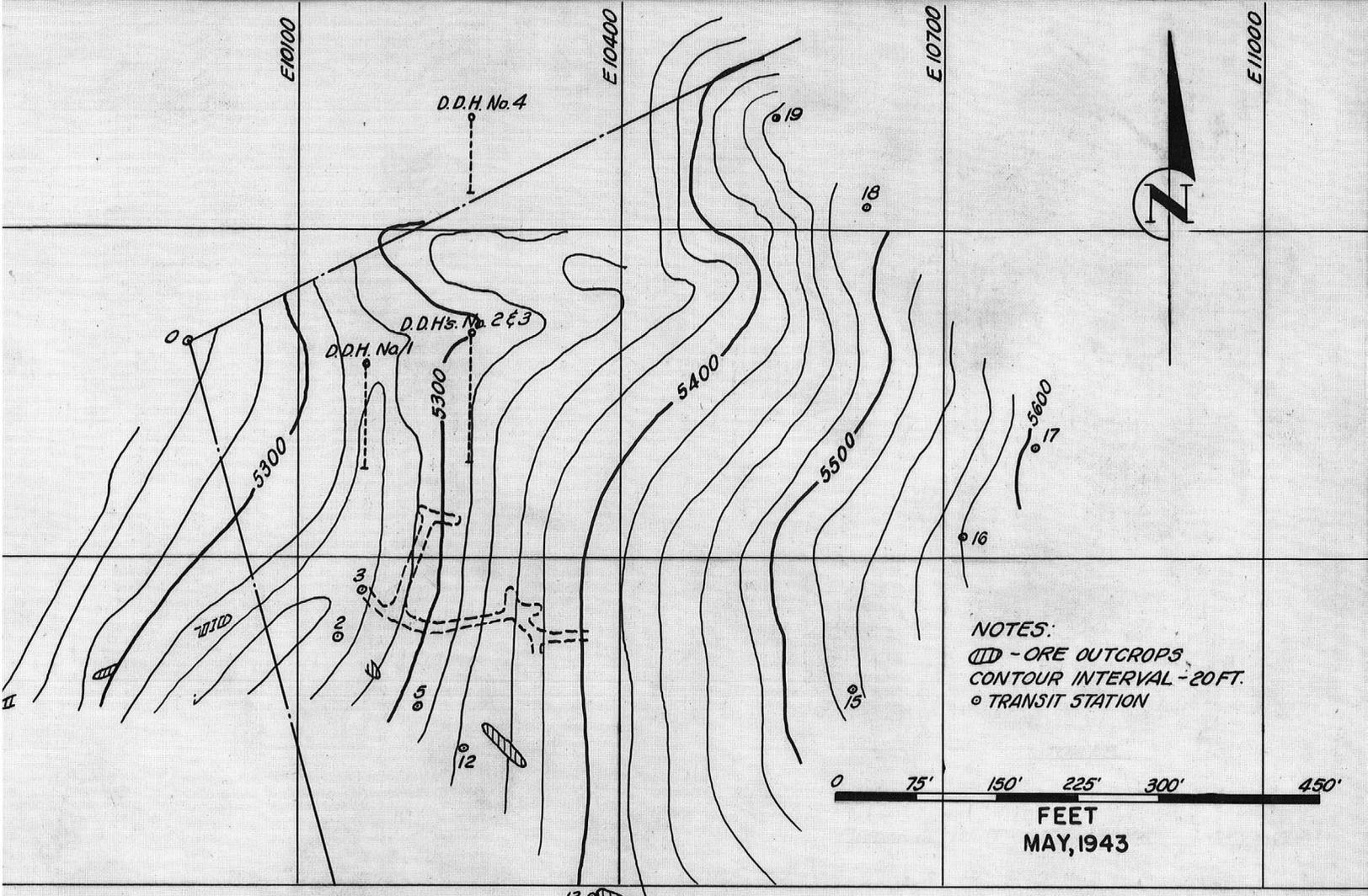
0 25 50 100 150

FEET

MAY, 1943

E.W. LONGITUDINAL SECTION IN PLANE OF VEIN, HEAD CENTER MINE

FIG. 5-ARAVAIPA PROJECT 1517, GRAHAM CO., ARIZONA



NOTES:
▨ - ORE OUTCROPS
CONTOUR INTERVAL - 20 FT.
○ - TRANSIT STATION



FEET
MAY, 1943

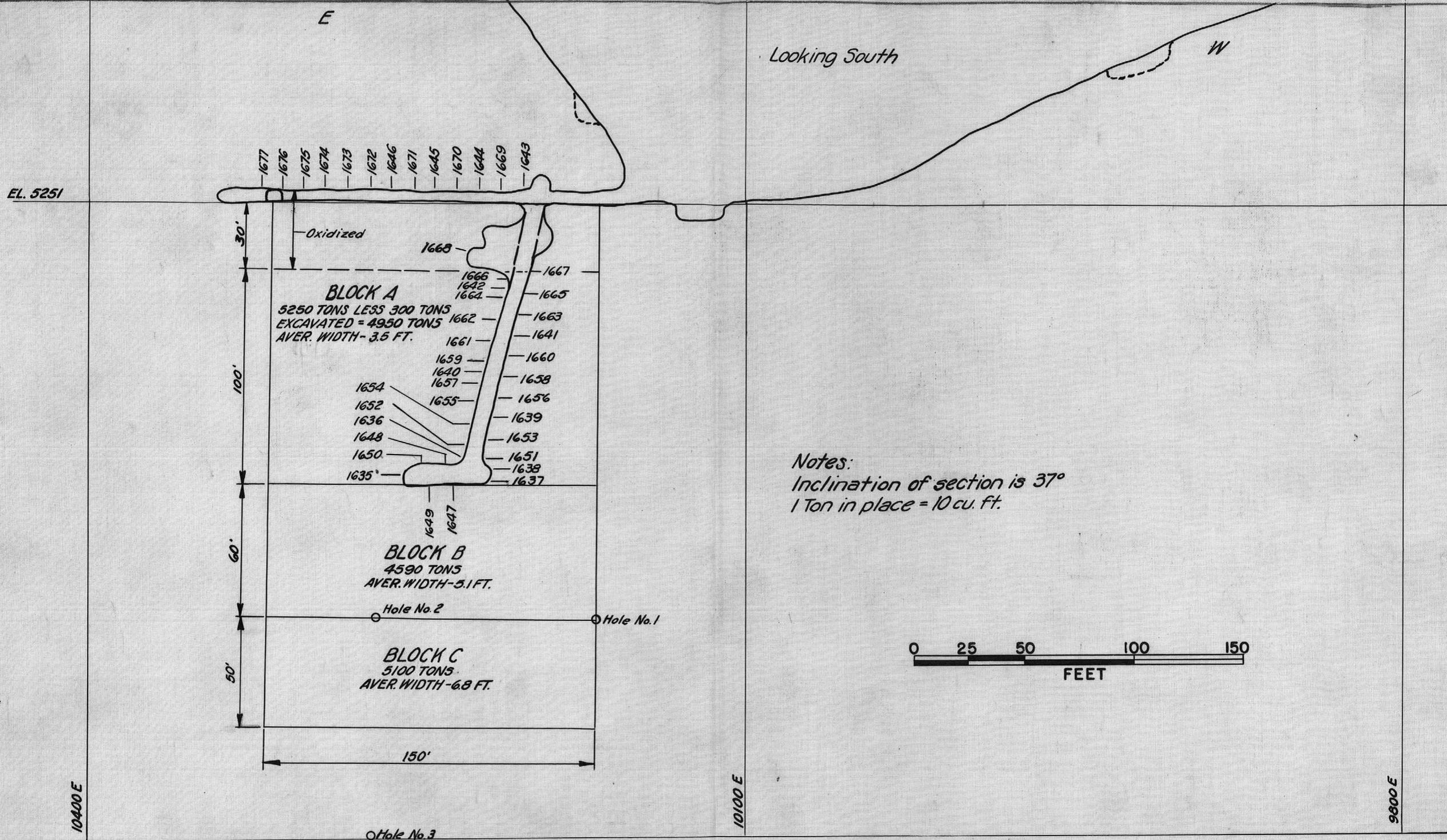
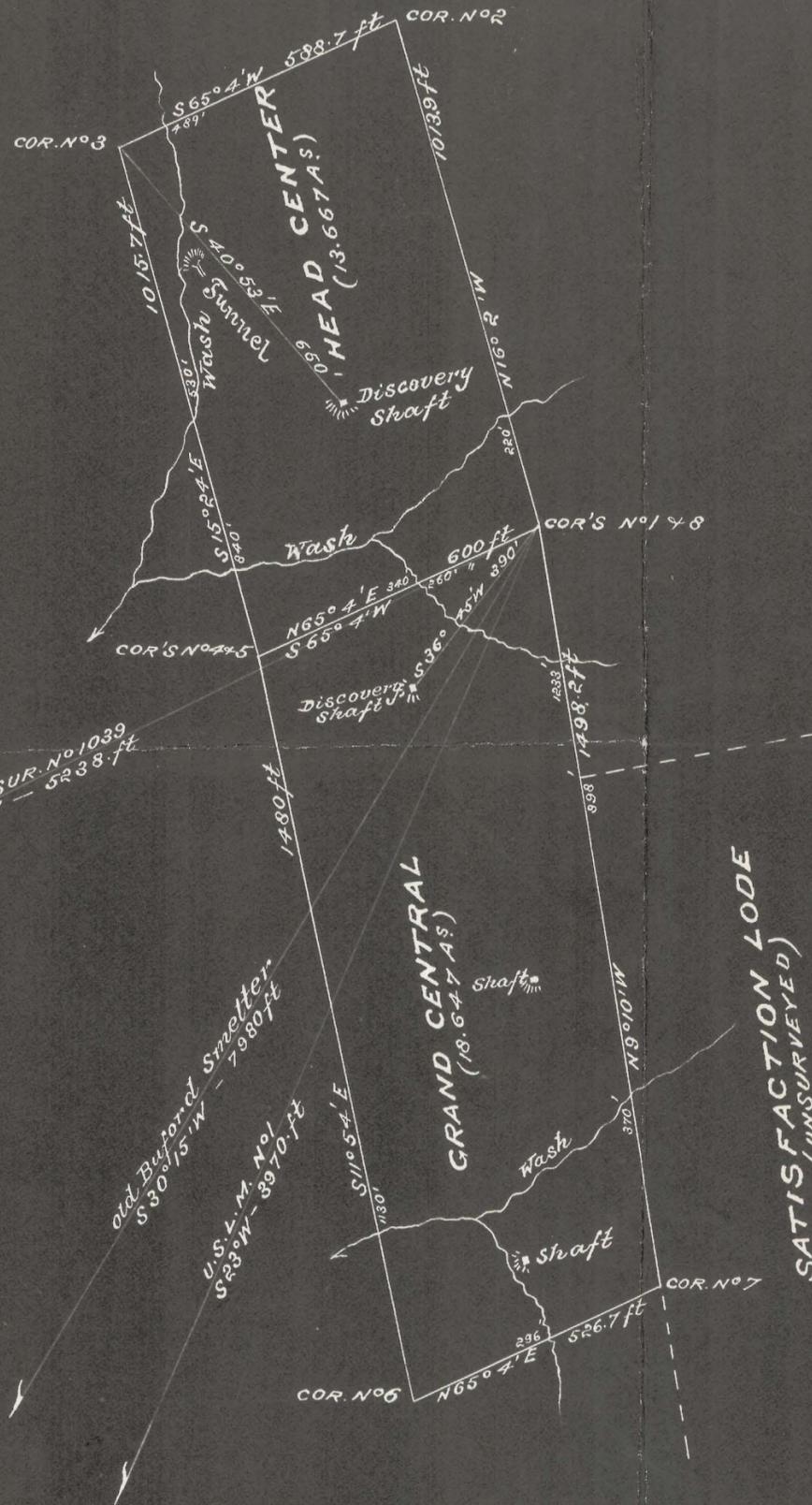


FIG.5-E.W. LONGITUDINAL SECTION SHOWING INDICATED ORE IN HEAD CENTER MINE, PROJECT 1517, GRAHAM COUNTY, ARIZONA

T. 5. S. R. 20 E, G & S. R. MER
(UNSURVEYED)



Lodes Located January 1, 1890

Mineral Survey No 1040

LOT No
~ Gila ~ Land District.

PLAT

OF THE CLAIM OF

ARAVAIPA MINING COMPANY

KNOWN AS THE

Head Center and Grand Central

Lodes.

IN *Aravaipa* MINING DISTRICT,
Graham COUNTY, *Arizona*

Containing an Area of **32.314** Acres.

Scale of **300** feet to the inch.

Variation **12° 35' E**

SURVEYED *July 2-3* 1892 BY

H. G. Howe

U.S. Deputy Mineral Surveyor.

The Original Field Notes of the Survey of the Mining Claim of
ARAVAIPA MINING COMPANY
Known as the

Head Center and Grand Central
Lodes.

from which this plat has been made under my direction, have been examined and approved, and are on file in this Office, and I hereby certify that they furnish such an accurate description of said Mining Claim as will, if incorporated into a patent, serve fully to identify the premises, and that such reference is made therein to natural objects or permanent monuments as will perpetuate and fix the locus thereof.

I further certify that Five Hundred Dollars worth of labor has been expended or improvements made upon said Mining Claim by claimant or its grantors, and that said improvements consist of **4 shafts and 1 Tunnel** as appears by the affidavit of deputy

that the location of said improvements is correctly shown upon this plat, and that no portion of said labor or improvements has been included in the estimate of expenditures upon any other claim.

And I further certify that this is a correct plat of said Mining Claim made in conformity with said original field notes of the survey thereof, and the same is hereby approved.

U.S. Surveyor General's Office. *Wm. A. Johnson*

Tucson, Arizona U.S. Surveyor General for

October 13 1892 *Arizona*

RECORD DEPT 6-18-1894

OFFICE NO. 24446