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PRINTED: 08-25-2006

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: PRIMOS GROUP

ALTERNATE NAMES:
DIVIDEND TUNNEL

COCHISE COUNTY MILS NUMBER: 42

LOCATION: TOWNSHIP 16 S RANGE 22 E SECTION 3 QUARTER NE
LATITUDE: N 32DEG 04MIN 32SEC LONGITUDE: W 110DEG 04MIN 53SEC
TOPO MAP NAME: DRAGOON - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:
TUNGSTEN
COPPER

BIBLIOGRAPHY:
KEITH, S.B., 1973, AZBM BULL. 187, P. 56
ADMMR PRIMOS GROUP FILE
USBM RI 5660, 1960

PRIMOS GROUP COCHISE COUNTY

USGS P.P. 318 p. 97 (Republic Mine & Bluebird Mine)
USGS P.P. 416 p. 183 (Bluebird Mine & Dividend Tunnel)

RI 5650 p. 130

AEC 172-478 p. 34

ABM Bull. 180, p. 110
ABM # 148 p. 42

ABM Bul. 187, p. 55
MILS Sheet sequence number 0040030102 (p. 67)

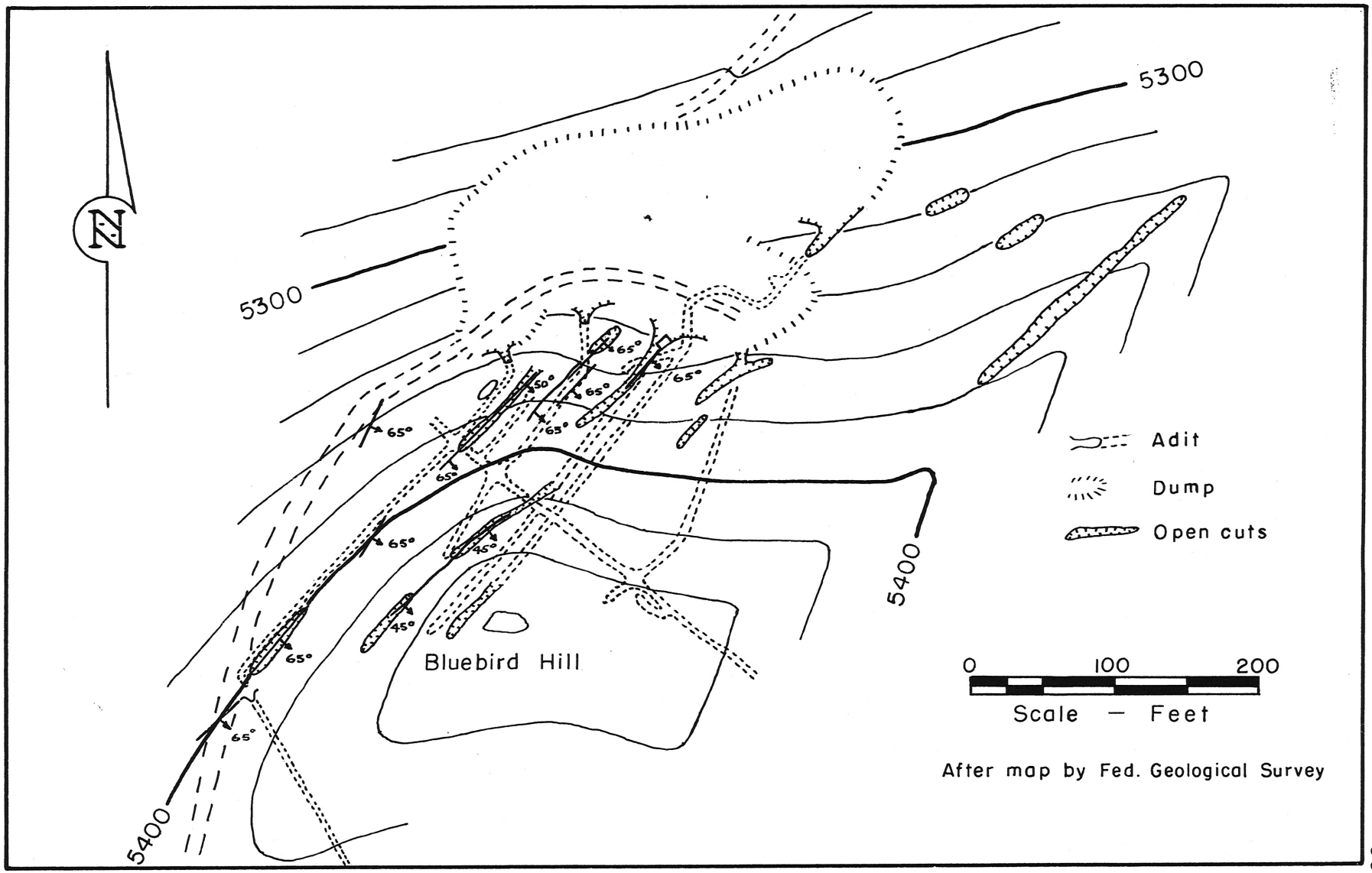

Fig. 17- Primos Mine, Little Dragoon Mts., Cochise County, Arizona

Republic Mine-Las Primos Group (The)

6-993

Copper - Zinc

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Report Nos. Dale No. 44

REVIEW OF EXAMINATION REPORT

State Arizona *County* Cochise *Mineral products* Tungsten

Name of property Republic (Johnson Camp) Mine Tailings Dump

Owner Coronado Copper & Zinc Co. *Address* Dragoon, Ariz.

Lessee or Operator No one *Address*

Location Sec. 25, T. 15 S., R. 22 E.

Examined by V. B. Dale *Date* June 13, 1957

Apparent quality of examination and report Satisfactory

Discussion and review: Tailings dump was visited under Auth. 2078 - Appraisal of Tungsten Deposits, Arizona and New Mexico, to obtain a sample for metallurgical tests as the ore from the Johnson Camp property contains some scheelite.

Approximately 700,000 tons of ore have been milled by the company, this ore containing about 2.5 percent copper, 6.5 percent zinc, and small amounts of tungsten. About 6,300 tons of ore are being produced monthly. Some 550,000 tons of material are in the tailings dump, containing 55,000 units of WO_3 according to company assays.

Metallurgical tests will be made in the Southwest Experiment Station to determine if recovery of the tungsten is possible.

DATE	ACTION	BY

Signed by Walter R. Storms

Reviewed by Walter R. Storms

Date June 18, 1957

GPO 83-546 58

CC J. F. Shaw (Orig. & 3); J. B. Clemmer; 467; 463; DF

6-803
(January 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Copper-Zinc

SUMMARY REPORT OF MINERALS EXAMINATION

Dale No. 44

State Arizona County Cochise Mineral Products Tungsten

Name of property or deposit Tailing dump at Republic Mine

Date examined 6/13/57 Engineer V. B. Dale Date of this report 6/17/57

Reason for examination Appraisal of tungstendeposits, Ariz. & N. Mex. - Auth. 2078

Engineer accompanied by No one Address

Extent of property Large number of patented claims

Owner Coronado Copper & Zinc Co. Address Dragoon, Ariz.

Leased or optioned to No one Address

Location of property (be specific) Sec. 25, T. 15 S., R. 22 E., G & S R B M

Type of deposit and mineralogy (brief description) Tailing dump from tactite ores containing WO_3, Zn, and Cu.

Known dimensions of the deposit
Length Width Depth

Attitude of the deposit (strike, dip, etc.)

Possible extensions; correlation of known showings

Mine workings (brief description or attach map or sketch) (indicate whether accessable)

CC J. F. Shaw (Orig. & 3); J. B. Clemmer; 467; DF

(over)

Mining and milling equipment on property **Approx. 180 ton mill**

Past production (if any) **Approximately 700,000 tons of ore at about 2.5% Cu and 6.5% Zn**

Present rate of production (if any) **6,300 tons of ore per month**

Sampling (describe briefly, or attach sketch) **3 samples cut from tailing pond with a 4-inch auger. Holes ranged in depth from 7 to 10½ feet.**

Tentative Estimate of Reserves

(Subject to revision when assays are received or after engineering calculations)

Measurable **550,000** tons **Tailing** Grade **0.10% WO_3 0.25% Zn 0.10% Cu**

Indicated tons Grade

Inferred tons Grade

Mining method (actual or suggested)

Milling or processing method (actual or suggested)

Processing tests suggested

Tentative conclusion and decision **This dump contains about 55,000 units of WO_3 according to company assays. Although low-grade, this material is worthy of metallurgical testing to determine if recovery of WO_3 is possible.**

To be accompanied by brief letter giving examining engineer's general impression of the deposit, his impression of the owner, and any other confidential information he may care to submit. Refer to any known prior examinations and reports. May be executed in pencil. Should be mailed within 24 hours after examination is completed.

Send original and one copy to Washington Office.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

RECEIVED
JUN 1 1 1952
DEPT. MINERAL RESOURCES
PHOENIX, ARIZONA

Mine Bartel Mining & Milling Co — Date May 28, 1952

District Cochise (Johnson) Dist., Cochise Co. — Engineer Axel L. Johnson

Subject: Mine Report --- Personal Visit.

Location 1 mile north-west of Highway 86 and Johnson Road intersection, in the little Dragoons.

Number of Claims 23 patented claims

Owner E. J. Bartel, Box 21, Dragoon, Ariz.
Mr. Bartel bought out this property from the Gideon Boericke Estate, and is buying out the Fernstrom lease.

Operator E. J. Bartel to operate the property himself, after the previous lease to Ray Fernstrom is terminated.

Metals Present Tungsten ~~xxxxxx~~ ores of Hubnerite and Scheelite. 80 % of the ore is Hubnerite, and the remaining 20 % is Scheelite.

Men Employed 4 men on mining. Some men on mill construction which is carried on intermittently.

Production Rate Varies. No figures available at present.

Milling Facilities Mr. Bartel is now building a 50 ton mill for milling this tungsten ore. The mill is now probably about 75 % complete. The foundations, housing, ore bins, electric generators, pumps, and crushers have been installed. The classifier, jiggs, ball mill, and tables are yet to be installed. There will be no flotation, a s, according to Mr. Bartel, none is needed.

Proposed Plans (1) To have mill ready in about 30 days.
(2) To start at increased rate of operations at the time the mill is ready for operation,-- employing 18 men (6 on each shift, working 3 shifts). Expected to produce about 50 tons per day of ore, and running same through the mill.
(3) Expects to do some diamond drilling on the property to explore it further.

Remarks This report is to replace the report on this property under date of April 12, 1952.

Primos Chemical Co.'s operations in the Wolfram District, 5 miles from Johnson, Arizona are under direction of Owen T. Smith. Tungsten ore is being mined and concentrated at the rate of 30 tons per day. The mill, which equipped with jigs and tables, turns out a concentrate that runs 60% tungsten, and which is sacked and shipped to Clifton, Pa. The ore consists of both tungsten placer gravel and white quartz. The former is scraped up from a gravel wash deposit in the little valleys and the latter is mined in the low hills.

Taken from Mining and Engineering World July 22, 1916.

ARIZONA DEPARTMENT OF MINERAL RESOURCES
MINERAL BUILDING, FAIRGROUNDS
PHOENIX, ARIZONA

August 13, 1958

To the Owner or Operator of the Arizona Mining Property named below:

Elmer C. Walker Mine (Cochise County) tungsten
(Property) (ore)

We have an old listing of the above property which we would like to have brought up to date.

Please fill out the enclosed Mine Owner's Report form with as complete detail as possible and attach copies of reports, maps, assay returns, shipment returns or other data which you have not sent us before and which might interest a prospective buyer in looking at the property.

Frank P. Knight

FRANK P. KNIGHT,
Director.

Enc: Mine Owner's Report

ARIZONA DEPARTMENT OF MINERAL RESOURCES
MINERAL BUILDING, FAIRGROUNDS
PHOENIX, ARIZONA

August 13, 1958

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Elmer C. Walker Mine (Cochise County) tungsten
(Property) (ore)

which we would like to have

PHOENIX
AUG 13
1958
ARIZ.

port form with as complete detail

, assay returns, shipment returns

re and which might interest a

Mr. Gideon Boericke

Primos

Penna.

Unknown
Moved, Left no address
No such office in state
Do not remail in this envelope

Frank P. Knight

FRANK P. KNIGHT,
Director.

Enc: Mine Owner's Report

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Bartel Mining & Milling Co Date May 28, 1952

District Cochise (Johnson) Dist., Cochise Co. Engineer Axel L. Johnson

Subject: Mine Report --- Personal Visit.

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(3) Expects to do some diamond drilling on the property to explore it further.

Remarks This report is to replace the report on this property under date of April 12, 1952.

Box 2, Sells Star Route
Tucson, Ariz.
July 27, 1942

DEPT. MINERAL RESOURCES
RECEIVED
JUL 28 1942
PHOENIX ARIZONA

Dep't of Mineral Resources,
Room 413 Home Builders Building,
Phoenix, Ariz.

Gentlemen;- Att: Mr.Gohring.

Please refer to my letter of July 9th in the matter of application of Elmer C.Walker, of Dragoon, Ariz. for loan. In explanation will say that the letter is signed by Elmer C.Walker, by myself as "accountant" as I have been engaged by him to handle this application matter. As I gave his name as "correspondent" in the application, I expect you would be writing him when there is anything to report, and I have had no information from him. If and when the loan is granted, I expect to be on the job as accountant and office man.

I believe the first information from Washington will come to your office and, if required, an engineer will be sent from there to inspect the property. I will appreciate it if you will advise me should this transpire, giving me the name of the engineer and, if possible, give me an appointment to meet your man here and proceed to Dragoon with him. I can refer you to Mr.C.A.Rockwood, of your office, whom I have known for many years.

So far as I know, we have received no communication from Washington of any kind. If there is further information required it is probable that it would have been requested by this time. Of course, I have no means of knowing the approximate length of time required on these applications, except from reports of other loans that have been granted. We are very anxious to get a decision in this matter at the earliest possible moment as all possible preparation warranted until something definite is learned, has been made, and the very set up of the property and its accessibility lends to the prospect of early production when once the funds have been made available. May I ask if you have received any information whatever from your Washington representative, Mr.Broadstareet, I believe, in the matter, or anything direct from the RFC. Also if you have any suggestion to make at this time as to what we should do, if anything, it will be much appreciated.

Yours very truly,

C.B.Colborn

C.B.COLBORN.
Accountant for Elmer C.Walker.

July 28, 1942

Mr. C. B. Colborn
Box 2, Sells Star Route
Tucson, Arizona

Dear Mr. Colborn:

Your letter addressed to the Department of Mineral Resources for attention by Mr. Gohring has been received at this office. Mr. Gohring is with the RFC Mine Loan Division and is at present in Washington.

The mine application of Elmer C. Walker on the property at Dragoon has, I am quite sure, gone on its way to Washington and it takes considerable time for these applications to pass Washington and be referred back to the RFC field office here in Phoenix for examination.

If at the end of 60 days you have not heard from the engineer who is to examine your property, I would be pleased to take this matter up with our representative in Washington and see if we cannot get some quicker action. I know that it is necessary to wait a reasonable time before starting to follow up each application, as a certain amount of time is necessary.

Very truly yours,

J. S. Coupal, Director

JSC:LP

Washington, D.C.
Aug. 12, 1942

SUBJECT: Mine Loan
Elmer C. Walker
Dragoon, Arizona

This has been transmitted to the Field Office for examination to be made.

Bill

Bill Broadgate

July 16, 1942

MEMORANDUM

MINE LOAN
ELMER C. WALKER
P. O. Box 45
Dragoon, Arizona

TO: W. C. Broadgate

FROM: J. S. Coupal

I have received a copy of the application for a "B" development mining loan dated July 7, 1942. Mr. Walter asked me to pass this information on to you in Washington but as copies are available, I see no object in sending this to you. The property has a good history and has had a good record of production.

July 16, 1942

Mr. Elmer C. Walker
P. O. Box 45
Dragoon, Arizona

Dear Mr. Walker:

Many thanks for your letter of July 9 with the triplicate copy of your application for a "B" loan. I have written Mr. W. C. Broadgate, the assistant director of the Department, who is now at Washington, and have called your application to his attention.

It takes a little time to get the mine loan applications through the Washington office and they are then referred to the examining engineer in Phoenix. If you do not hear from this within a reasonable time, I would say about 30 days, I would like to have my attention called to it and we will check up and see what is delaying action.

Yours very truly,

J. S. Coupal, Director

JSC:LP

P.O.Box 45,
Dragoon, Ariz.
July 9th, 1942.

DEPT. MINERAL RESOURCES
RECEIVED
JUL 11 1942
PHOENIX, ARIZONA

Dep't of Mineral Resources,
Room 413, Home Builders Building,
Phoenix, Ariz.

Gentlemen;-

I am mailing today my application, of which the enclosed is a triplicate copy, to the Reconstruction Finance Corporation, at Washington, for a Development Loan, Form B.

At the suggestion of Mr. Geo.A.Ballam, one of your Field Engineers, who has incidentally helped me much in its preparation, I am mailing you the Triplicate Copy, together with such Exhibits as are possible at this time. I will appreciate it very much if you will forward this to your Washington representative, to be followed up. We are ready to go as soon as we can secure approval of the loan, and funds are available.

I live on the property and will be at home continuously from now on until the application is passed upon and will be glad to have your engineer here as promptly as possible after information comes from Washington. You may write or wire me at the above address.

Yours very truly,

ELMER C.WALKER

By C. B. Colborne
Accountant

Enc.

DEPT. MINERAL RESOURCES
RECEIVED
JUL 11 1942
PHOENIX, ARIZONA

WALKER, ELMER C., MINE

W

Cochise 2 - 1 S 2,3,10,11, T 16 S, R 22 E
S 34, 35, T 15 S, R 22 E

Elmer C. Walker, Box 45, Dragoon '44

[illegible] Group (file)

DEPARTMENT OF MINERAL RESOURCES

News Items

Date 8/5/40

Mine Primos Chem Property

Location

Owner

Address

Lessee

Operating Co. Elmer Walker

Address Dragoon

Pres.

Genl. Mgr.

Mine Supt.

Mill Supt.

Principal Metals

Men Employed 70 Lessees

Production Rate 2 tons per month

Mill, Type & Capacity

Power, Amt. & Type

Signed M. M. C.

(Over)

Page 1 of 2

Present Operations

New Work Planned

Miscl. Notes In District.

Poppy Group- Jn. Walker under option

Whitmeyer Group (under lease to Pat Shea) 8

Jess Weir " 10

Little Fanny 6

Page 2 of 2

DEPARTMENT OF MINERAL RESOURCES

News Items

Date Oct. 30, 1940

Mine Walker (Primos)

Location Dragoon 7½ mi

Owner Gideon Boericke

Address Primos, Penna

Operating Co. Elver Walker

Address Dragoon

Pres. No corp.

Genl. Mgr. Same

Mine Supt.

Mill Supt.

Principal Metals Tungsten

Men Employed 50 Leasers

Production Rate 800 lbs conc per wk.

Mill, Type & Capacity Crusher, Rolls, Tram, Jig, Table

Power, Amt. & Type 15 HP F-M Z Type

Signed M. M. C.

(Over)

Page 1 of 2

Present Operations In July 1940 (Lola Martenez)
made $1326.00 (2 sons)
no regularity to income

New Work Planned

Miscl. Notes Conc. table
Shackelford Concentrator
Hibbard Mfg. Co, Joplin, Mo.

Page 2 of 2

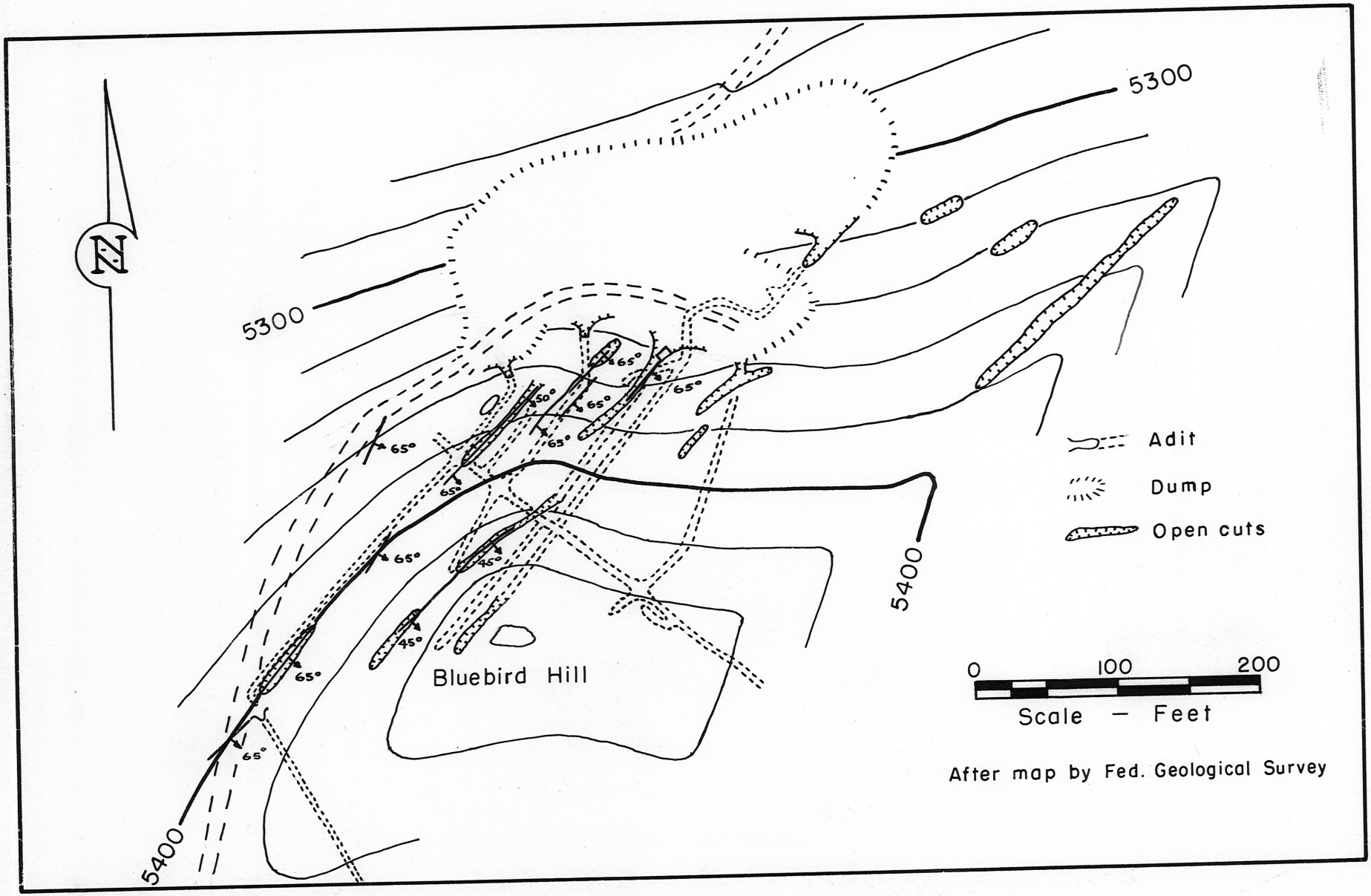

Fig. 17- Primos Mine, Little Dragoon Mts., Cochise County, Arizona

Adit dump open cut or depressions