



CONTACT INFORMATION

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Arizona Department of Mines and Mineral Resources Mining Collection

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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: BIG BANANA MINE

ALTERNATE NAMES:

COPLAN SCHEELITE
MAUDE E.

PIMA COUNTY MILS NUMBER: 59

LOCATION: TOWNSHIP 17 S RANGE 7 E SECTION 32 QUARTER NW
LATITUDE: N 31DEG 54MIN 13SEC LONGITUDE: W 111DEG 39MIN 32SEC
TOPO MAP NAME: BABOQUIVARI PEAK - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

TUNGSTEN
COPPER SULFIDE
MOLYBDENUM SULFIDE
FLUORINE FLUORSPAR

BIBLIOGRAPHY:

S.B. KEITH, AZBM BULL. 189, P. 108, 1974
ADMMR BIG BANANA MINE FILE
ADMMR UNION CARBIDE FILE
ADMMR SAN JUAN MINE FILE
USBM RI 5650, P. 67-69



Big Banana Mine
T1NSR7E Sec. 32 NW
(unsurveyed)

Baboquivari, AZ 15
Peak

GLASSCOCK, C. G.
TIDELANDS OIL CO.
1601 Wilson Tower
Corpus Christi, Texas

MINE: ✓ BIG BANANA MINE, Fresno Dist., Pima Co.- About 60 Mi SW of
Tucson.

OWNERS: C. G. Glasscock, Tidelands Oil Co. 1-25-56

TIDELANDS OIL CO.,
1601 Wilson Tower
Corpus Christi, Texas

MINE: BIG BANANA MINE, Fresno Dist., Pima Co.- About 60 Mi SW of
Tucson

OWNERS: C. G. Glasscock, Tidelands Oil Co.,
1601 Wilson Tower, Corpus Christi, Texas 1-25-56

GLASSCOCK, C. G.,
TIDELANDS OIL CO.
1601 Wilson Tower
Corpus Christi, Texas

9-18-56

MINE: BIG BANANA MINE, Fresno Dist., Pima County.

BIG BANANA MINE

Do Not Reproduce

Pima County
Fresnal District

About 60 miles SW of Tucson.

Office Visit 10/15/79 John Jett: Archie Stutenroth claims to be the owner of the Big Banana. He has made several shipments to V.C. at Bishop. He is presently moving his mill from his house to the mine site. Shipments are approximately 1-1/2 tons each.

RRB WR 4/3/80: Called Archie Stutenroth (836-3138) in Casa Grande about his advertizement in the Gazette. He has a crusher, impact mill and Wiffley table that he has been using to concentrate tungsten ore (Scheelite) from the Big Banana. He is thinking about using it to concentrate gold ore on a custom basis. I will visit him and get more information as soon as he is available.

RRB WR 4/25/80: Went to see Archie Stutenroth when I got back to Casa Grande. He has a crusher, pulverizer and table set up to run sheelite from the Big Banana Mine on the Papago Reservation in Pima County. He will run small lots of ore for a flat fee to set up and then at a flat rate per ton.

- RRB WR 11/6/81: Bill Baker, Arivaca, AZ. reports that he will have a lease-purchase agreement for the Big Banana tungsten property on the Papago Reservation if he can get the paperwork done to the satisfaction of the people backing him financially. He checked the General Electric Group (Las Guijas File) while he was in the office. He also reported that Archie Stutenroth is busy running tests on gold ores from all over the west at this mill in Casa Grande.
-

Archie Stutenroth failed to get the assesment papers in on time and has lost the claims, which back to Indian Jurisdiction. (1981-1982)

Bill Dusenberry checked on the availability of data on the Big Banana tungsten property in Pima County. Dusenberry is handling the property for a John Beasley the holder of a lease option on the mine. KAP WR 6/23/75

Bill Dusenberry called to report that he and John Beasley have had six more 20 foot samples from the Big Banana assayed by Jacobs. The samples averaged 0.33% tungsten. They have contacted Union Carbide's exploration office; Union Carbide will visit the property on or around July 21, 1975. KAP WR 7/2/75

Bill Dusenberry called regarding the Big Banana tungsten property he controls. Union Carbide has visited the property and was mildly interested. Mineral recovery tests are being conducted by D.r A.G. Naguib, 1829 Gulf Life Tower, Jacksonville, Florida, 32207. KAP WR 10/8/75

A. Stutenroth, is reportedly planning to operate the Big Banana, San Juan tungsten properties. He reported ore to be worth between \$100 and \$150 per ton. KP/WR 12/16/77, 2/6/78 a.p.

RRB/WR 1/7/80 - In the afternoon I went to the mine and no one was there and it did not appear that anyone had been recently. There is some equipment on the property however. A trommel screen, some conveyor belts and a tracked front end loader.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Big Banana Mine and Mill

Date July 10, 1957

District Fresnal District, Pima Co.

Engineer Axel L. Johnson

Subject: Present Status. Personal Visit & Information from M. F. McKnight, Manager.

Location and Number of Claims See report of Jan. 25, 1956.

Owners C. G. Glasscock, Tidelands Oil Co., 1601 Wilson Tower, Corpus Christi, Texas.

Operators Same as above.

Officers M. F. McKnight, Box 36, Sells Star Route, Tucson, Ariz. --- Manager.

Principal Minerals Tungsten ore in the form of scheelite.

Number of Men Employed 7. ----- 3 men at the mine, 1 man hauling ore, 3 men at the mill.

Production Rate About 24 tons per day, mined and milled.

Geology and Ore Values See report of Jan. 25, 1956. Ore now averages about 0.35 % WO_3 .

Milling and Marketing Facilities The formerly called Cinderra Mill, which formerly milled the Big Banana ore on a custom basis (See reports of the Big Banana Mine and the Cinderra Mill under date of Sept. 18, 1956) has now been purchased by C. G. Glasscock, Tidelands Oil Co. Several improvements on the mill have been made by the new owners, viz: 3 new tables, 3 hydraulic classifiers, 1 new ball mill, 1 new jaw crusher, 1 magnetic separator, and an oil drying unit. Milling equipment now consists of the following:

- (1) Wheeler jaw crusher
- (2) Wheeler ball mill-- 1 1/2 ton per hr. capy. at 16 mesh.
- (3) 3 Hydraulic separators
- (4) 5 Tables (4 tables for the crude, and 1 table for the middlings & regrind.
- (5) Fernstrom magnetic separator.
- (6) Drying unit.

Mill is operated 24 hours per day. Mr. McKnight reports about 85 % recovery. As the ore only averages 0.35 %, only 0.30 %, or 6 lbs. per ton of ore is recovered. Tables are only working to about 1/2 capacity, and other equipment considerably less than capy. Company is now storing the concentrates for sale at some future date.

Present Mine Workings See report of Sept. 18, 1956.

Present Mining Operations

- (1) All development and exploration work has been discontinued.
- (2) All underground work has been discontinued.
- (3) Working one open cut, day shift only. Ore blasted loose from the bank and loaded on the ore trucks with a D-7 car loader. Ore is then hauled by truck for a distance of 8 miles to the mill.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine ^{Dig} Banana Mine

Date Sept. 18, 1956.

District Fresnal District -- Pima County.

Engineer Axel L. Johnson

Subject: Present Status. Personal Visit & Information from M. F. McKnight, Manager.

Location and Number of Claims See my report of Jan. 25, 1956.

Owners C. G. Glasscock, Tidelands Oil Co., 1601 Wilson Tower, Corpus Christi, Texas.

Operators Same as above.

Officers M. F. McKnight, Manager, Box 36, Sells Star Route, Tucson, Ariz.

Principal Minerals Tungsten ore in the form of scheelite.

Number of Men Employed 6 men.

Production Rate About 16 tons per day produced, and hauled and milled at the Cinderella mill, about 8 miles from the mine.

Geology and Ore Values See my report of Jan 25, 1956.

Ore in Sight and Probable Very little ore in sight as yet, but exploration is being continued in order to prove up more ore.

Milling and Marketing Facilities The ore produced is hauled to the Cinderella mill, about 8 miles away, and milled by the Cinderella Mining and Engineering Co. at a combined cost for hauling and milling of \$ 10.00 per ton. (See report of the Cinderella Mill). The ore is upgraded to specifications and is shipped from this mill directly to the General Services Administration.

Present Mine Workings (1) 3 open cuts on hillside, similar ~~max~~ in size and location to descriptions of same in my report of Jan. 25, 1956.

(2) 1 adit-- 1,002 ft. long. Adit shows only small narrow fissures of ore. Adit either missed ore vein, or ore did not go down in depth.

(3) 1 adit from other side of hill ---now in about 100 ft.,
* mostly in ore.

(4) 1 winze being sunk from this adit. Is now down about 10'.

(5) Exploratory drilling from long 1002 ft. adit, trying to find ore vein. Work done along narrow 6 inch fissure about 600 ft. from open set.

Present Operations (1) Mining ore by open pit methods from the open cuts, and milling same at the Cinderella mill. Also obtaining some ore production from the winze being sunk from the 100 ft. adit.

(2) Sinking winze from 100 ft. adit for exploration purposes.

(3) Exploration drilling being done in the long 1002 ft. adit, about 600 ft. from the open set, where small narrow fissures of ore were found.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Big Banana Mine

Date May 29, 1956

District Fresnal District ---- Pima County

Engineer Axel L. Johnson

Subject: Present Status. Information from Frank Eastman, Supt. Tidelands Oil Co.

Box 187, Sells, Arizona.

References For Location, Number of Claims, Owners, Operators, & Officers see my report of this property under date of Jan. 25, 1956.

Principal Minerals Tungsten ore in the form of scheelite.

Number of Men Employed 2 men employed mining ore open pit for the Tidelands Oil Co.
1 man trucking the ore to the mill on contract.
(W. K. F. Contracting & Co. has now finished their contract).

Production Rate Approx. 17 tons per day --- 85 tons per week from open pit operations.

Geology See my report of Jan. 25, 1956.

Ore Values See my report of Jan. 25, 1956.

Ore in Sight and Probable See my report of Jan. 25, 1956.

Milling and Marketing Facilities The ore mined is now trucked to the Cinderella mill about 5 1/2 miles east of Sells, owned and operated by Cinderella Mining and Engineering Co. --- M. F. McKnight and Kenneth Gordon, Box 36, Sells Star Route, Tucson, Ariz. Better results and recovery is reported from this mill than the Papago Mill, where the ore was milled until recently. Company started sending the concentrates to the International Metals Corp. mill at Douglas for upgrading. One batch was later sent to the Lieberman mill at Tucson for upgrading. Now, Frank Eastman, Superintendent in charge of operations for the Tidelands Oil Co. reports that they are planning on upgrading the ore at the Cinderella mill, as soon as the operators of said mill have installed magnetic separators and other necessary upgrading equipment.

Present Mine Workings See my report of Jan 25, 1956. --- exc. (4) Adit now in 1002' Open cuts extended.

Present Operations Mining ore by open pit methods from the open cuts, and hauling this ore to the Cinderella mill for milling.

* Proposed Plans Mr. Eastman reports that the company is undecided at the present time whether or not they will continue the operations. It would depend on, according to Mr. Eastman, on (1) Continuation of the GSA government purchase program on tungsten and (2) Finding enough tonnage of sufficient grade to operate the mine at a profit.

Remarks The adit, driven by the W. K. F. Contracting Co. on contract, is now finished. It went in a distance of 1002 ft. Mr. Eastman reports that no ore zones of tungsten ore were cut in the driving of this adit, and very little ore showings were found. He states that the adit was driven on the advice of a consulting geologist employed by the company, and that no drill holes were put down to determine the extension and the depth of the ore body.

For further remarks, see my report of Jan. 25, 1956---page 3.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine **Big Banana Mine** Date **Jan. 25, 1956.**
District **Fresnal District --- Pima County.** Engineer **Axel L. Johnson**
Subject: **Field Engineer's Report. Personal Visit & information from operators.**

185 7E ?

Location About 60 miles SW of Tucson. Drive 49 miles west on Highway no. 86. Turn left (south) and drive about 9 miles on rough dirt road (old road), or drive 55 1/2 miles west on Highway no. 86, turn left (south-east), and drive 8 1/2 miles on good, newly built road.

Number of Claims 4 unpatented claims, viz: Big Banana, Big Banana no. 1, Big Banana no. 3, and Maude E.

Owners C. G. Glasscock, Tidelands Oil Co., 1601 Wilson Tower, Corpus Christi, Texas. The above mining claims were purchased from William H. Coplan, Box 107, Sells, Ariz. in June, 1955. Mr. Coplan reported the following terms: Total price for same \$150,000, with \$ 20,000 cash down payment, and the balance to be paid at \$ 2,000 per mo.

Operators Same as above.

Officers John Eastman, Resident Engineer, Sells, Ariz. ----for Tidelands Oil Co.
Art H. Robinson, Mine Supt., W. K. F. Contracting Co., Box 1, Patagonia, Ariz

Principal Minerals Tungsten ore in the form of scheelite.

Number of Men Employed 2 men employed mining ore for the Tidelands Oil Co.
1 man trucking the ore to the mill on contract.
8 men (4 on each of 2 shifts) for the W. K. F. Contracting Co.
driving an adit on contract.

Production Rate 17 tons per day-----85 tons per week from the open cut mining operations/
After the mine had been closed for a short time, the present company is reported to have started operations on a small scale in August, 1955, and started the present schedule of 2 ~~xxx~~ truck loads a day (approx. 17 tons) in late Sept. 1955.

Geology The scheelite ore is found in a shear zone from 50 to 100 ft. wide. The material in the shear zone is highly altered and decomposed, being yellowish brown in color and quite soft. Blasting breaks the ore up into a fine, almost clay-like consistency. The country rock on the north side of the shear zone is rhyolite. The length of the shear zone could not be determined due to the overburden. Depth of the ore not possible to determine.

Ore Values The ore values were reported to vary within wide limits ----- from 0.3 % to 0.7 %, with about 0.5 % average. Mill records at the mill, from about 17 tons of ore per day milled, for the last 7 days of operation are as follows: Pounds of dry concentrates produced----301 #, 336 #, 161 #, 204 #, 314 #, 214 #, 277 #, ----total 1807 #. Assuming a 50 % concentrate with a 75 % recovery, the average ore value would be 0.506 %

Ore in Sight and Probable The ore is exposed in 3 open cuts, viz.:

- (1) a face about 100 ft. long x 12 ft. high.
- (2) a face about 80 ft. long x 15 ft. high.
- (3) a face about 50 ft. long x 10 ft. high.

There has been no drill holes put down, or ~~xxx~~ other exploratory work done, as far as I could learn.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Page 2.

Mine Big Banana Mine (continued)

Date Jan. 25, 1956.

District

Engineer

Subject:

Milling and Marketing Facilities The ore is trucked to the Papago mill, about 13 1/2 miles north of Sells, where it is milled. Distance from the mine to the mill is 28 1/2 miles. The concentrates from this milling operation are reported by Mr. Coplan to be stored in a building near the mine. Mr. Coplan states that the company plans to either ship the concentrates to a mill on the coast for further upgrading (possibly Wah Chang), or to erect their own up grading mill.

Present Mine Workings (1) One open cut, cut into the rather steep hillside, about 120 ft. long x 25 to 50 ft. wide, x 6 to 18 ft. deep. Two men are at present working this open cut, drilling and blasting, and loading the ore into trucks with a car loader.

(2) One open cut, cut into the hillside, about 90 ft. long x 10 to 50 ft. wide x 6 to 24 ft. deep. No work is being done in this cut at present, but a considerable amount of ore appears to have been removed in past operations. At one side of this open cut, the surface has been stripped off, ~~exposing~~ exposing an area about 90 ft. x 50 ft. for future operations. It was reported, however, that this area was too low a grade to be mined economically.

(3) One open cut, cut into the hillside, about 60 ft. long x 8 to 30 ft. wide x 6 to 14 ft. deep.

(4) One adit, now in about 300 ft., being driven by the W. K. F. Contracting Co., Box 1, Patagonia, Arizona.

Open cut (2) appears to be at about 40 ft. higher elevation than open cut (1), and open cut (3) at about 30 to 40 ft. lower elevation than (1). The adit appears to be about 50 ft. lower elevation than open cut (1) now being worked.

Present Operations (1) Mining ore from open cut (1), and loading same into trucks for haulage to the mill. 17 tons per day is mined and trucked to the mill.

(2) Driving an adit into the hillside to intersect the ore body below the level of the open cuts. This work is done under contract by the W. K. F. Contracting Co., Box 1, Patagonia, Ariz. Art H. Robinson, Box 555, Patagonia, Ariz. is the mine superintendent for this operation. The adit is being driven through hard rhyolite rock, containing no ore values, and is now in a distance of about 300 ft. from the opening, at a bearing of S 31 W. Mr. Robinson states that it is planned to drive the adit for a distance of 1000 ft., and that they expect to hit the mineralized zone at a 450 to 460 ft. distance. He also states that the adit is about 90 ft. below open cut (1) now being worked. (It actually appears to be only about 50 ft. below, and the distance to the mineralized zone about 600 ft.) A mucking machine is used for mucking the rock into cars, which are trammed to the waste dump. The adit is equipped with electric lights, and with blower and ventilation tubes. Work on this adit is reported to have started about 2 months ago.

The plans, according to Mr. Robinson, are to mine the ore by means of underground stoping, dropping the ore through chutes down to the adit level, and tramping it out in ore cars. He states that his company expects to get the job of mining the ore on contract.

Proposed Plans (1) Mining ----- see present operations above.
(2) Milling ---- see Milling and Marketing Facilities above.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Page 3.

Mine Big Banana Mine (continued)

Date Jan. 25, 1956.

District

Engineer

Subject:

General Remarks

(A) From a cursory examination of the operation, the following questions present themselves:

(1) Would it not have been cheaper to mine the ore by open pit methods, since there is less than 10 ft. of overburden covering the ore deposit, and roads can be built on the hillside to serve several levels?

(2) Why was not the adit started on the east side of the hill, where it would have been in pay ore almost from the start, eliminating about 500 to 600 ft. of dead work?

(3) Do they know that the ore actually extends down to the elevation of the adit? Mr. Coplan states that, to his knowledge, no drill holes were put down before the adit was started.

(B) From the information gathered on the approximate average ore values and the proposed method of operation, it is difficult to see how the mine can be operated at a profit, especially after the G. S. A. buying schedule is terminated. In discussing this matter with Mr. Coplan, he expressed the same opinion and stated that he expects to get the property back on default of monthly payments.

*

UNION TUNGSTEN CORPORATION

6613 E. INDIAN SCHOOL ROAD
SCOTTSDALE, ARIZONA 85251
(602) 945-3955



UNION CARBIDE CORPORATION
METALS DIVISION

751 RYLAND STREET, RENO, NEVADA 89502 — 702-323-0663

October 2, 1975

Mr. William L. Dusenberry
7046 East Paradise Drive
Scottsdale, Arizona 85254

Re: Big Banana, Pima County, Arizona

Dear Bill:

Thank you for calling this morning. I must apologize for not having sent you these data sooner. I am enclosing a copy of our Certificate of Analysis showing results on the four samples I collected on September 5, and a copy of the map from USBM RI 5650 showing locations.

You should contact Mr. R. D. Carpenter in Bishop regarding any concentrate shipments, but I would appreciate your letting me know also should you be able to open the deposit up further.

Very truly yours,

Peter H. Hahn
District Geologist

PHH:kv
Enc.

UNION CARBIDE CORPORATION
SCOTTSDALE, ARIZONA 85254
7600 848-8888

CERTIFICATE OF ANALYSIS

BANANA

SHIPMENT #7
Samples Rec'd 9/10

TO: Hahn
MORGAN
THAMM
J. P. MOORE

Submitted by: Hahn
Date: 9-9-75 - VIA FRONTIER
AIR FRT, TUCSON

Charge to: 828-06-160-002-17929
UNIVERSITY

Anal. No.	Sample Description	min	% SiO_2	% Mo	% 02 Au	% 02 Ag	%	% $W03$	%	Analytical Remarks
4										
78	1996 (BBB) ^{is banana}		0.59							.52
79	1997 "		0.80							} NO Au/Ag on these
80	1998 "		0.56							
81	1999 "		0.41							
21										
22										

Union Carbide Corporation does not make any representations or warranties, expressed or implied, of any kind or nature whatsoever, with respect to the accuracy, reliability or completeness of this information or matter. Any use of or reliance upon this information or matter by any person, firm, or corporation shall be at his or its sole risk, liability and responsibility.

Sample Retention
 Discard
 3 Months
 12 Months REJECTS
 Other (Specify)
 RETURN - PULPS - TO

UNION ASSAY OFFICE
 Reported by: J. Moore Date: 9/22/75
RENO

REC'D
MGM
RENO SEP 26 '75

ARIZONA TESTING LABORATORIES

A DIVISION OF CLAUDE E. McLEAN & SON LABORATORIES, INC.
 817 WEST MADISON ST. PHOENIX, ARIZONA 85007

PHONE 254-6181

For: Mr. Bill Dusenberry
 7046 East Paradise Drive
 Scottsdale, Arizona 85254

Date: June 10, 1975
 Lab. No.: 9573

Received: 6-9-75

Marked: Sample #5

Submitted by: same

REPORT OF QUALITATIVE SPECTROGRAPHIC EXAMINATION

ELEMENT

APPROXIMATE PERCENT

Boron	0.002
Silicon	Major Constituent
Aluminum	Intermediate Constituent
Manganese	0.4
Magnesium	2.0
Lead	0.02
Gallium	0.005
Iron	5.0
Beryllium	0.002
Molybdenum	0.01
Calcium	Intermediate Constituent
Vanadium	0.006
Copper	0.04
Sodium	2.0
Titanium	0.4
Potassium	1.0
Strontium	0.01
Tungsten	0.0

These results are based on the analysis of the sample as received and are not intended to represent the composition of the material as it exists in nature.

Any use of the results of this examination for purposes other than those for which it was intended is at the user's risk. The user assumes all responsibility for the use of the results of this examination.

Respectfully submitted,

ARIZONA TESTING LABORATORIES

Claude E. McLean, Jr.

Claude E. McLean, Jr.

4



UNION CARBIDE CORPORATION
METALS DIVISION

PINE CREEK OPERATIONS • BISHOP, CALIFORNIA 93514

February 13, 1976

Union Tungsten Corp.
6613 E. Indian School Road
Scottsdale, Arizona 85251

Attention: William L. Dusenberry

Gentlemen:

Our analysis of the sample which you recently submitted is 28.88% WO_3 .

We are pleased to inform you that we will purchase material representative of this sample on the basis of the enclosed purchase schedule and Attachment A.

Attachment A-1 is to be completed and returned to our office prior to or at the time of the initial delivery of material. A Notary Public is normally available at the Pine Creek Office if you wish to complete the affidavit at the time of delivery.

Very truly yours,

UNION CARBIDE CORPORATION
METALS DIVISION

A handwritten signature in cursive script, appearing to read "C. R. Kurtak".

C. R. Kurtak
Assistant Plant Superintendent

CRK:gp

Enclosures

UNION CARBIDE CORPORATION
MINING AND METALS DIVISION
Bishop, California

SCHEDULE FOR PURCHASING TUNGSTEN CONCENTRATES
WHICH ARE COMPLETELY AMENABLE TO OUR PROCESS*

<u>W03 Content</u>	<u>Per Short Ton Unit W03 f.o.b. Upper Scheelite Near Bishop, California</u>
Less than	No Payment
20.00 % to 24.99	\$ 65.00
25.00 to 29.99	66.25
30.00 to 34.99	67.50
35.00 to 39.99	68.75
40.00 to 44.99	70.00
45.00 to 49.99	71.25
50.00 to 54.99	72.50
55.00 to 59.99	73.75
60.00 and up	75.00

This schedule is not an offer to purchase tungsten concentrates. Do not ship concentrates unless we issue an order to purchase.

Prices are subject to change without notice.

For materials which originate from foreign sources, Seller/Shipper must arrange to pay applicable U.S. Duty and submit evidence of such payment.

*Based on five-pound sample submitted by Seller. Materials shipped must conform to sample submitted for evaluation.

We require approximately three weeks to conduct test work on samples submitted for evaluation.

Prices apply to Lot deliveries of one dry ton or more. Deductions as shown below will be made from regular purchase schedule for Lots of material delivered in quantities of less than one (1) dry ton:

Less than	2000 lbs. (Dry)	<u>Deduct</u>	Unit W03
	1500	\$ 1.00	
	1000	1.50	
	500	2.00	
		2.50	

or \$ 50.00, whichever is greater

Concentrate particle size must be less than one-quarter (1/4) inch.

Concentrates which contain excessive moisture (generally in excess of 5% H2O) are not acceptable.

Deliveries are limited from 8:00 A.M. to 3:00 P.M., Monday through Friday, except holidays.

Revised: August 1, 1974

ATTACHMENT A

Sampling and Analytical Procedure for Tungsten Bearing Concentrates and
and Residues from Other Producers/Suppliers

Settlement will be based on Union Carbide Corporation's sample, weights and moisture determinations by standard practice (i.e., individual cans/sacks will be "thief" sampled upon arrival; a portion of such sample will be used for moisture determination and another to provide for sample pulps on which analyses will be based).

Material received at one time will be sampled as a lot unless the quantity exceeds a reasonable amount.

One pulp will be mailed to producer/supplier within ten (10) days after delivery of the material. In case of disagreement on assays as to any constituent of the material, an umpire shall be selected in rotation from a list of umpires approved by Union Carbide Corporation, whose assays will be final if within the limits of the assays of the two parties; if not, the assay which is nearer to that of the umpire shall prevail. The party whose assay is further from that of the umpire shall pay the cost of the umpire's assay for the constituent of the concentrate which is in dispute. In the event that the umpire's assay is equally distant from the assay of each party, costs will be split equally. In the case of the seller's failure to make or submit assays, the buyer's assays shall govern. After sampling, the concentrates may be placed in process, commingled or otherwise disposed of by the buyer.

Deliveries must be made Monday through Friday, holidays excepted, between the hours of 8:30 a.m. and 3:30 p.m.

Settlement for material delivered will be made within 7 to 14 days.

ECG:gp

January 30, 1974

AFFIDAVIT OF OWNERSHIP OF TUNGSTEN ORE CONCENTRATES

State of California)

County of _____)

ss. _____

_____, being duly sworn, hereby
Name of Affiant

deposes and says:

1. That he is the owner of all right, title and interest in and to those certain tungsten ore concentrates to be delivered pursuant to _____

Date of Letter Offer

2. That he has not entered into any presently binding agreement with any third party which would in any way restrict him from offering such tungsten ore concentrates to Union Carbide, and such offer is valid and without condition or restriction.

3. That he agrees to indemnify Union Carbide Corporation against and hold it harmless from any breach of any representation or warranty.

IN WITNESS WHEREOF, _____ has hereunto

Name of Affiant

set his hand and seal this _____ day of _____, 19 ____.

Signature

Sworn to before me this

_____ day of _____, 19 ____.

Notary Public

(SEAL)

KENNAMETAL INC.,
NEVADA DIVISION
TUNGSTEN CONCENTRATE BUYING SCHEDULE

Effective: November 10, 1975

BASE PRICE

Our base price for tungsten concentrates containing 60% WO_3 shall be \$72.00 per short ton unit (20 pounds contained WO_3) delivered Fallon, Nevada subject to the conditions below:

IMPURITY PENALTIES

Buyers reserve the option of applying prevailing GSA penalty schedule for impurities if the material is considered particularly "dirty",

GRADE AND PENALTY

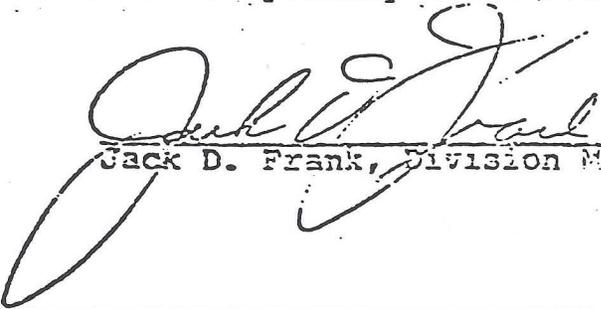
60% WO_3 and above	\$72.00 stu maximum
60% WO_3 to 40% WO_3	30¢ penalty for each 1% below 60% WO_3

PRICE EXAMPLES BASED ON NO IMPURITY PENALTY

60% WO_3	-\$72.00
55% WO_3	70.50
50% WO_3	69.00
45% WO_3	67.50
40% WO_3	66.00

OTHER CONDITIONS

- (1) Material below 40% may be taken by special negotiations.
- (2) A charge of \$25.00 for each lot will be made for handling lots under one ton net dry weight.
- (3) Material should be dried prior to the delivery. The buyer reserves the right to invoke a drying charge when necessary.
- (4) Delivery shall be fob Kennametal Inc., Fallon Plant, 347 North Taylor, Fallon, NV 89406.
- (5) Deliveries will be accepted Monday through Friday, holidays excepted, between the hours of 8:30 A.M. and 2:30 P.M.
- (6) The above schedule applies only to lots acceptable to the buyer.
- (7) This schedule is subject to change without notice.
- (8) All settlement based on buyers' weight, sampling and analysis.
- (9) A minimum amount per shipment is 500 lbs.
- (10) Sulfur penalty schedule is 30¢ per stu for each percent above 2.00%. No penalty below 2.00% sulfur.


Jack D. Frank, Division Manager

JDF/as

WM COPLAN SCHEELITE "BIG BANANA"

LOCATION:

The Coplan Scheelite property is located in the western foothills of the Baboquiviri Mts. approximately 12 miles easterly from Sells, Arizona on the Papago Indian Reservation. This area is not surveyed but reconstruction of Township and Range Controls indicates no difficulties to reconcile sections. Such a reconstruction places the claims in the S ½ of Section 29 and the N ½ Section 32, Township 17S, Range 7E. It is not required to describe Lode locations in relation to legal subdivision.

OWNERSHIP:

The claims, six in number, comprising 120 acres + are owned by right of location and purchase. The title is vested in William Coplan.

TOPOGRAPHY:

Claims are situated in the western foothills of the Baboquiviri Mt. Range, a northerly and southerly trending range, bisected by steep canyons draining westerly with major hydrographical drainage to the north.

CLIMATE & VEGETATION:

Winters are seldom severe at altitudes of 3000-4000 in the southern part of Arizona. Summer temperatures often exceed 100 degrees, but nights are seldom too warm for sleeping comfort. Iron-wood, Palo Verde, Grease-wood, Mesquite, and an infinite number and variety of cacti abound.

WATER:

There is available a drilled well owned by the Indian Service, said to be between 600 and 700' deep, assuring any prospective mill installation of adequate water for a 75-ton daily capacity. This item alone is an extremely attractive inducement for the installation of a custom mill for scheelite ore from numerous small operations in the immediate area.

POWER SOURCES:

Electricity is available at the well-site from 110V.-220V. 60 cycle A.C.

GEOLOGY:

The Baboquiviri Range is composed of Granitic stocks,

locally Quartz Monzonites and Grano-diorites and numerous Pegmatite dikes, which represent a product of Magmatic Segregation. These acid granitics intrude sediments of presumed Paleozoic age, forming highly metamorphosed pendants. The intruded sediments are Limestones and Schists which decline steeply to the west. The associated mineral assemblage at once indicated syngenetic-hypothermal origin. Epidote, Scheelite, Garnet, Wollastonite, Idocrase Vesuvianite, acicular crystals of altered actinolitic material suggest high temperature contact, Metamorphic deposition. The geological aspects are extremely favorable to scheelite deposits.

MINERAL DEPOSIT & ORE OCCURRENCES:

The writer spent three days in thorough reconnaissance of this deposit--evaluation of ore in sight and estimation of potential ore. He has had much experience in scheelite ore evaluation, mining, and milling and feels qualified to give expert advice in the many aspects of Tungsten production. The writer has examined and observed most of the large occurrences of Tungsten in the Western states, but has never had the privilege of seeing a property with the immense potential that is represented by Wm. Coplan's "Big Banana".

The ore is scheelite (Ca WO_3) associated with Epidote, giving the surface ore a greenish cast, which is easily identified in daylight. The mineral, Scheelite, fluoresces under Ultra-Violet Light and visual evaluation must be made in darkness or by the process of panning, i.e. (separating the Scheelite from gangue minerals by gravity concentration). Both of these methods were employed and the results of panning exceeded by far inspection of the ore by Ultra-Violet Light methods. (Gravity Concentration is the preferred method of recovery in the Milling process).

No assays have been made at present, but Ultra-Violet and panning indicates ore over 40' widths that will exceed .80 of 1% or values that should exceed \$40.00 gross per ton.

Mr. Coplan is a prospector and is not interested in the mining and milling of this deposit. Access roads and open-pit mining are being instituted. Ore already extracted and milled by open pit method has made a return to Mr. Coplan of over \$30.00

net per ton.

There are no milling facilities and ore is being hauled 25 miles to a poorly designed, converted gold mill with only Concentrating Tables for recovery. Losses are over 30% of Mill-head assays. The use of a Ball Mill in this circuit is a mistake and is contributing to the large losses by slining the scheelite.

The ore is continuous for over 600 feet and varies in width from 25'-50' and the vertical interval exceeds 150' from the northernmost surface exposure to the southern exposure, which is a dozer-cut exposing ore for over 60' in width of a good commercial grade. (An intermediate open-cut delineates a full 35' commercial ore).

MINING, HAULING & MILLING:

This deposit can be mined by open-cut bench using a shovel Track Loader. Mining costs will not exceed \$1.00 per ton, and Hauling costs to the leased well and power site will not be more than \$1.00 per ton. Milling costs will not exceed \$4.00 per ton.

- Gentlemen, this is the most attractive property from every standpoint the writer has ever examined.

DESIGN AND TYPE OF PROJECTED MILL:

Primary Crusher to coarse ore-bin. Coarse ore-bin over Grizzly to secondary crusher and elevate to two 50-ton conical fine ore bins. Fine-ore feed to Herman Mill with large punch plates, few large grinding balls, heavy water feed. Discharge from Herman through 8-10 Mesh screens through Denver Jigs. Discharge from jigs over sizing screens, over-sized material returned to Herman feed. Discharge of sizing screens to Dunham Economy Concentrator Table #1. A rich Scheelite concentrate taken from #1 Table, Middlings and Tails over #2 Table, another 60%+ concentrate taken from #2 Table with Middlings to #3 Table & Tails to Tailing Pond. Middlings from #3 Table into Wilfley Return Pump, returned to #1 Table for reconcentration.

This projected flow-sheet is subject to tests at Abbott Hanks San Francisco Testing Laboratory, but should make a recovery over 80%, which is close to optimum in milling Tungsten.

The nature of the ore makes it extremely amenable to Gravity Concentration, which is the simplest method known to

extract minerals of high specific gravity.

The finished Concentrate is then dried, sacked, and taken to an electro-magnetic separator to extract the heavy Epidote and garnet minerals and make a Concentrate of +60% WO_3 content.

* The writer carries Gov't Certificate #10-209, Certificate of Authorization, Domestic Tungsten Program, issued by General Services Administration, dated 7-18-51, which enables the Syndicate to receive the Gov't guaranteed price of \$63.00 per unit (20lbs) of 60% WO_3 Concentrate.

ECONOMICS:

The writer has no difficulty to visualize a net profit of \$1500.00 daily from a 50 ton production, which represents a \$40,000.00 monthly net.

The accompanying sketch maps show the deposit's geological relation to the Granitic Batholith and are self-explanatory.

PURCHASE PRICE & TERMS:

Purchase price---\$100,000.00

The terms by which this property can be acquired are as follows: ~~\$1,000,000~~ Mo.

\$20,000.00 Cash down payment.

500.00 per month guaranteed Royalty applying on purchase price or 10% of settlement sheets.

An acceptable Title to be placed in Escrow Valley Nat'l Bank, Main Office, Tucson, Arizona; with instructions to deliver said Title to purchasing parties upon completion of payments. (No Time Limit.)

RECOMMENDATIONS:

Necessary testing done on Ore to ascertain most efficient plant design.

Design and drawings made of approved mill.

Property acquired.

Work started on erection of Mill, which can be completed and operating in 60 days.

COST OF MILL:

The writer has knowledge of the location of a Herman Mill that will meet our requirements. Cost, not over \$2,000.00. The costs of conveyers, return pumps, electric motors, steel

fine-ore Bins, crushers, grizzly steel, Denver Jigs, and trical requirements are standard and can be bought in most districts. Dunham Economy Concentrating Tables with head-motions, Roto-cone speed reducers for electric motors--complete cost= \$945.00 each F.O.B. South Pasadena, California.

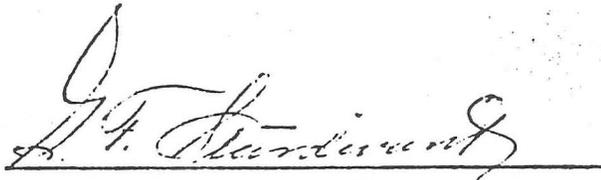
The total cost of the mill, installation, assembly and adjusting will not exceed \$35,000.00.

The writer allows two months operation to amortize complete investment by the Syndicate.

CONCLUSION:

The future of Tungsten is excellent, the demands are increasing both for civilian and military requirements, and the writer cannot conceive that the U.S. Gov't Price Support will not continue. The guaranteed price extends until July 1, 1958, or when 3 million short ton units have been delivered to the G.S.A. Stockpiles. The best information the writer has been able to find on this matter, places the present G.S.A. stockpile as containing less than 1/2 the 3 million units. In any event, we will have over 14 month's production behind us before the closest termination date is reached.

In the event the Program is extended, our future for many years is assured.

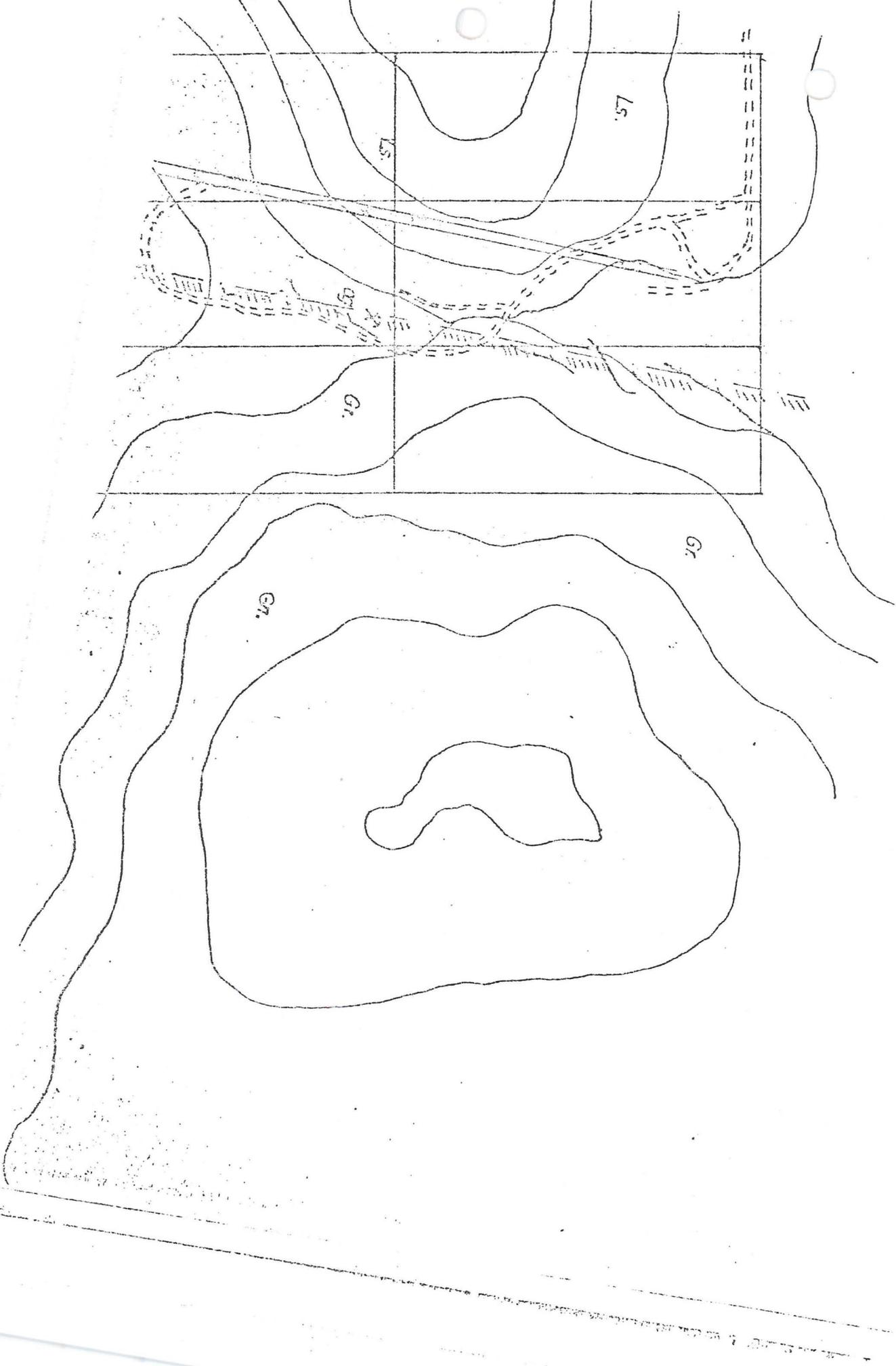


G.F. Sturdevant, E.M.

Dated 3-4-'55

BARANNA GROUP
PIMA COUNTY
ARIZONA

W. S. JENSEN
Scale 1" = 500'



GENERAL SERVICES ADMINISTRATION
DOMESTIC PURCHASE PROGRAM
ACCEPTANCE AND INVOICE

Date **November 21, 1955**

Certificate of Authorization
Number **9 7-16-1**

TO: **C. G. Glasscock-Tidlands Oil Company**
1601 Wilson Tower
Coyne Christi, Texas

Accepted for delivery by the undersigned on **November 17, 1955** at **Salina, Arizona** in accordance with the Government's Purchase Program. The quantity is **8011.0** pounds (net this side) of **D, Internal combustion engine 215-8434** starting material for Turbine on the side of **CGA Warehouse, So. St., Cal.** The price is **0.28** per pound.

Element	Percentage	Percent
Impurities	56.11%	1.11%
Penalty	0.01%	0.01%
Moisture	0.01%	0.01%
Asbestos	0.01%	0.01%
Antimony	0.01%	0.01%
Bismuth	0.01%	0.01%

EVALUATION AND SETTLEMENT DATA

Penalty		Dollars	
3.566 103 below 60%, 20 cents for each 1.00%		.712	
0.215 5% above .50%, 25 cents for each 0.10%		.535	
Total Penalties		1.247	
Adjusted Base Price - Per S. T. U.		52.750	
Gross Wt 8011.0	Net Wt 8011.0		
Net Wt Lbs	Moisture Content	Net Wt Lbs	Payment
8011.0	7.6006	8011.0	22,112.53

ACCEPTANCE

Received by **R. E. Reno, Jr.** on **November 21, 1955** at **San Francisco, California**
By **Regional Director, CGA**

INVOICE

To: **General Services Administration** Region Number **9** San Francisco, California
For: **Total Amount Due** **22,112.53**

I certify that the above bill is correct and just and that payment therefor has not been received. The producer warrants that said material was produced in the United States, its Territories and possessions.
Date **11-21-55**
C. G. Glasscock-Tidlands Oil Company

further affected these bands, so that the scheelite usually is in lenticular bodies in a fairly soft, granular, often pulverulent matrix. Thin coatings or smears of scheelite occasionally extend into the fracture planes of adjacent massive rocks.

The scheelite occurs as discrete particles, seldom larger than a match head and usually much smaller, and often as mere specks. Most of the scheelite is molybdenum bearing and fluoresces a yellow color under the ultraviolet lamp.

It is reported that scheelite mineralization is present in similar metamorphic rocks higher in the mountains, 2 or 3 miles northeast of the Big Banana mine. No claims have been located there because of difficult accessibility.

Northern Area

Big Banana Mine (C. G. Glasscock-Tidelands Oil Co.)

The Big Banana property, consisting of four contiguous, partly overlapping claims, is situated in approximate sec. 32, T. 17 S., R. 7 E., unsurveyed, at an altitude of 3,700 feet. The mine is accessible by a 0.7-mile road branching east from the Foothill Truck Trail 1.6 miles south of the San Juan junction.

Wm. H. Coplen purchased the Maud E claim and located the three Big Banana claims early in 1954 and produced approximately \$25,000 worth of tungsten concentrates.

In June 1955, the C. G. Glasscock-Tidelands Oil Co. entered into a purchase contract with Coplen, developed the mine, and through 1956 had produced an estimated \$50,000 worth of concentrates.

The Banana ore zone lies within metamorphosed quartzitic rock, adjacent to and east of an irregular, intrusive mass of somewhat metamorphosed rhyolite. The general trend of the mineralized zone is S. 15° E. It is 1,000 feet or more in length. The rocks are intensely shattered. Within the mineralized zone, the ore shoots appear to be arranged in an en echelon pattern, and the individual shoots strike N. 10° to 20° W. and dip eastward.

No transit survey has been made of the entire Big Banana workings, but for the purpose of this report figure 26 has been compiled from the company's fragmentary Brunton survey maps.

Lower Cut Adit. - From the face of an opencut that had produced ore, the Lower Cut adit was driven southward for 100 feet, passing into almost barren rock at about 60 feet. At 40 feet from the portal a wide 50° inclined winze was sunk on the ore shoot. At the bottom the angle flattened to a nearly horizontal position. McKnight stated that the ore from a 6- to 8-foot zone averaged 0.5 percent down this incline. A 40-foot drift to the southeast produced ore for about half its length. Ore was being mined from a drift in

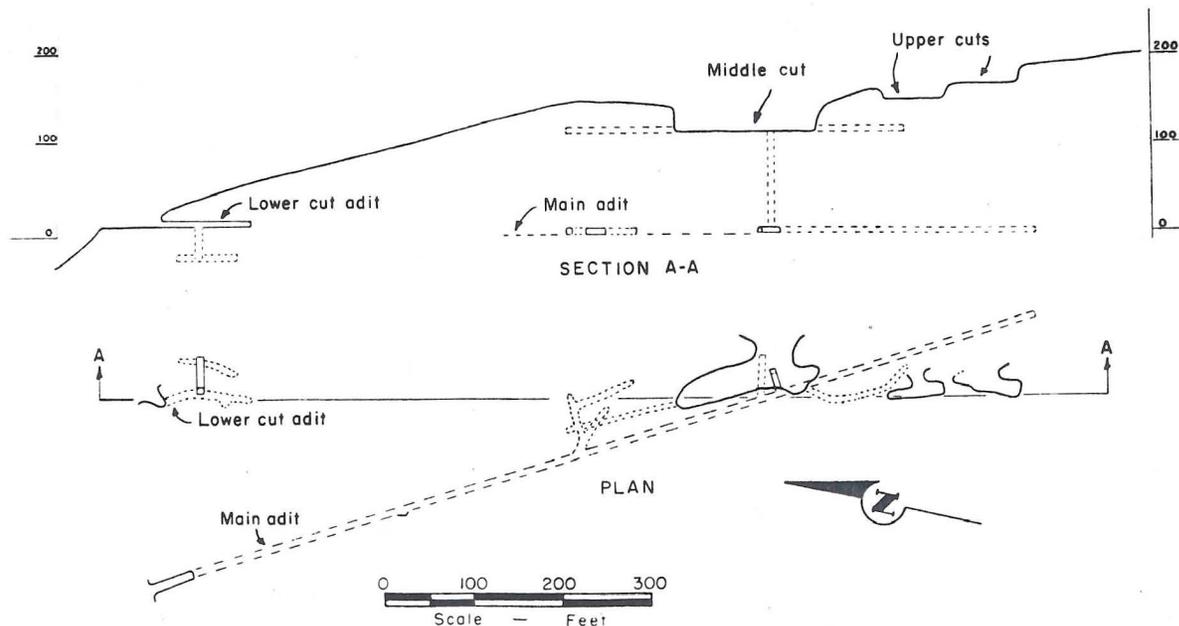


FIGURE 26. - Plan and Section, Big Banana Mine.

the opposite direction, which on January 10, 1957, had been advanced 20 feet. At this level some pyrite was present in the ore zone. When the ore was milled, most if not all of the pyrite remained in the concentrate.

Ore from the winze was hoisted, trammed to an ore dump, and placed in trucks by an end loader.

A character sample from the bottom of the winze (15045-A) was microscopically determined to be a quartzite, as was one (15045-B) taken on the surface 50 feet east of the adit portal.

Middle Cut. - Approximately 700 feet to the southeast and 100 feet higher, an opencut has produced considerable ore. At floor level the cut measured 160 feet long by about 35 feet wide, and the high side measured 30 feet. Considerable sorting was required to upgrade the product; all large, hard fragments were rejected. Probably certain parts of the excavated material that did not lamp scheelite were also rejected.

Drifts were being driven along the zone of mineralization from each end of the cut when the deposit was visited. Early in December 1956, when the north drift was 20 feet deep and the south end was in preparation for drifting, a combined muck sample consisting of 50 pounds from each place assayed the following percentages: 0.06 WO_3 , 0.006 MoO_3 , and 0.03 Cu. Evidently mineralization as lean as this would have been discarded. As of January 10, 1957, each of the drifts had been driven 125 feet. The material from the north drift was sent to the mill, but the face of the south drift was below milling

Location and Number of Claims See report of Jan. 25, 1956.

Owners C. G. Glasscock, Tidelands Oil Co., 1601 Wilson Tower, Corpus Christi, Texas.

Operators Same as above.

Officers M. F. McKnight, Box 36, Sells Star Route, Tucson, Ariz. --- Manager.

Principal Minerals Tungsten ore in the form of scheelite.

Number of Men Employed 7. ----- 3 men at the mine, 1 man hauling ore, 3 men at the mill.

Production Rate About 24 tons per day, mined and milled.

Geology and Ore Values See report of Jan. 25, 1956. Ore now averages about 0.35 % WO_3 .

Milling and Marketing Facilities The formerly called Cinderella Mill, which formerly milled the Big Banana ore on a custom basis (See reports of the Big Banana Mine and the Cinderella Mill under date of Sept. 18, 1956) has now been purchased by C. G. Glasscock, Tidelands Oil Co. Several improvements on the mill have been made by the new owners, viz; 3 new tables, 3 hydraulic classifiers,, 1 new ball mill, 1 new jaw crusher, 1 magnetic separator, and an oil drying unit. Milling equipment now consists of the following:

- (1) Wheeler jaw crusher
- (2) Wheeler ball mill-- 1 1/2 ton per hr. capy. at 16 mesh.
- (3) 3 Hydraulic separators
- (4) 5 Tables (4 tables for the crude, and 1 table for the middlings & regrind.
- (5) Fernstrom magnetic separator.
- (6) Drying unit.

Mill is operated 24 hours per day. Mr. McKnight reports about 85 % recovery. As the ore only averages 0.35 %, only 0.30 %, or 6 lbs. per ton of ore is recovered. Tables are only working to about 1/2 capacity, and other equipment considerably less than capy. Company is now storing the concentrates for sale at some future date.

Present Mine Workings See report of Sept. 18, 1956.

Present Mining Operations

- (1) All development and exploration work has been discontinued.
- (2) All underground work has been discontinued.
- (3) Working one open cut, day shift only. Ore blasted loose from the bank and loaded on the ore trucks with a D-7 car loader. Ore is then hauled by truck for a distance of 8 miles to the mill.

Report of
May 1957

Owners C. G. Glasscock, Tideland Oil Co., 1601 Wilson Tower, Corpus Christi, Texas

Operators Same as above.

Officers M. F. McKnight, Manager, Box 36, Sells Star Route, Tucson, Ariz.

Principal Minerals Tungsten ore in the form of scheelite.

Number of Men Employed 6 men.

Production Rate About 16 tons per day produced, and hauled and milled at the Cinderella mill, about 8 miles from the mine.

Geology and Ore Values See my report of Jan 25, 1956.

Ore in Sight and Probable Very little ore in sight as yet, but exploration is being continued in order to prove up more ore.

Milling and Marketing Facilities The ore produced is hauled to the Cinderella mill, about 8 miles away, and milled by the Cinderella Mining and Engineering Co. at a combined cost for hauling and milling of \$ 10.00 per ton. (See report of the Cinderella Mill). The ore is upgraded to specifications and is shipped from this mill directly to the General Services Administration.

Present Mine Workings (1) 3 open cuts on hillside, similar ~~max~~ in size and location to descriptions of same in my report of Jan. 25, 1956.

(2) 1 adit-- 1,002 ft. long. Adit shows only small narrow fissures of ore. Adit either missed ore vein, or ore did not go down in depth.

(3) 1 adit from other side of hill ---now in about 100 ft., mostly in ore.

(4) 1 winze being sunk from this adit. Is now down about 10'

(5) Exploratory drilling from long 1002 ft. adit, trying to find ore vein. Work done along narrow 6 inch fissure about 600 ft. from open set.

Present Operations (1) Mining ore by open pit methods from the open cuts, and milling same at the Cinderella mill. Also obtaining some ore production from the winze being sunk from the 100 ft. adit.

(2) Sinking winze from 100 ft. adit for exploration purposes.

(3) Exploration drilling being done in the long 1002 ft. adit, about 600 ft. from the open set, where small narrow fissures of ore were found.

Box 107, Sells, Arizona.

References For Location, Number of Claims, Owners, Operators, & Officers see my report of this property under date of Jan. 25, 1956.

Principal Minerals Tungsten ore in the form of scheelite.

Number of Men Employed 2 men employed mining ore open pit for the Tidelands Oil Co.
1 man trucking the ore to the mill on contract.
(W. K. F. Contracting Co. has now finished their contract).

Production Rate Approx. 17 tons per day --- 85 tons per week from open pit operations.

Geology See my report of Jan. 25, 1956.

Ore Values See my report of Jan. 25, 1956.

Ore in Sight and Probable See my report of Jan. 25, 1956.

Milling and Marketing Facilities The ore mined is now trucked to the Cinderella mill about 5 1/2 miles east of Sells, owned and operated by Cinderella Mining and Engineering Co. --- M. F. McKnight and Kenneth Gordon, Box 36, Sells Star Route, Tucson, Ariz. Better results and recovery is reported from this mill than the Papago Mill, where the ore was milled until recently. Company started sending the concentrates to the International Metals Corp. mill at Douglas for upgrading. One batch was later sent to the Lieberman mill at Tucson for upgrading. Now, Frank Eastman, Superintendent in charge of operations for the Tidelands Oil Co. reports that they are planning on upgrading the ore at the Cinderella mill, as soon as the operators of said mill have installed magnetic separators and other necessary upgrading equipment.

Present Mine Workings See my report of Jan 25, 1956. --- exc. (4) Adit now in 1002' Open cuts extended.

Present Operations Mining ore by open pit methods from the open cuts, and hauling this ore to the Cinderella mill for milling.

Proposed Plans Mr. Eastman reports that the company is undecided at the present time whether or not they will continue the operations. It would depend on, according to Mr. Eastman, on (1) Continuation of the GSA government purchase program on tungsten and (2) Finding enough tonnage of sufficient grade to operate the mine at a profit.

Remarks The adit, driven by the W. K. F. Contracting Co. on contract, is now finished. It went in a distance of 1002 ft. Mr. Eastman reports that no ore zones of tungsten ore were cut in the driving of this adit, and very little ore showings were found. He states that the adit was driven on the advice of a consulting geologist employed by the company, and that no drill holes were put down to determine the extension and the depth of the ore body.

For further remarks, see my report of Jan. 25, 1956---page 3.

Location About 60 miles SW of Tucson. Drive 49 miles west on Highway no. 86. Turn left (south) and drive about 9 miles on rough dirt road (old road), or drive 55 1/2 miles west on Highway no. 86, turn left (south-east), and drive 8 1/2 miles on good, newly built road.

Number of Claims 4 unpatented claims, viz: Big Banana, Big Banana no. 1, Big Banana no. 3, and Maude E.

Owners C. G. Glasscock, Tidelands Oil Co., 1601 Wilson Tower, Corpus Christi, Texas. The above mining claims were purchased from William H. Coplan, Box 107, Sells, Ariz. in June, 1955. Mr. Coplan reported the following terms: Total price for same \$150,000, with \$ 20,000 cash down payment, and the balance to be paid at \$ 2,000 per mo.

Operators Same as above.

Officers John Eastman, Resident Engineer, Sells, Ariz. ----for Tidelands Oil Co.
Art H. Robinson, Mine Supt., W. K. F. Contracting Co., Box 1, Patagonia, Ariz

Principal Minerals Tungsten ore in the form of scheelite.

Number of Men Employed 2 men employed mining ore for the Tidelands Oil Co.
1 man trucking the ore to the mill on contract.
8 men (4 on each of 2 shifts) for the W. K. F. Contracting Co.
driving an adit on contract.

Production Rate 17 tons per day-----85 tons per week from the open cut mining operations/ After the mine had been closed for a short time, the present company is reported to have started operations on a small scale in August, 1955, and started the present schedule of 2 ~~xxx~~ truck loads a day (approx. 17 tons) in late Sept. 1955.

Geology The scheelite ore is found in a shear zone from 50 to 100 ft. wide. The material in the shear zone is highly altered and decomposed, being yellowish brown in color and quite soft. Blasting breaks the ore up into a fine, almost clay-like consistency. The country rock on the north side of the shear zone is rhyolite. The length of the shear zone could not be determined due to the overburden. Depth of the ore not possible to determine.

Ore Values The ore values were reported to vary within wide limits ----- from 0.3 % to 0.7 %, with about 0.5 % average. Mill records at the mill, from about 17 tons of ore per day milled, for the last 7 days of operation are as follows: Pounds of dry concentrates produced----301 #, 336 #, 161 #, 204 #, 314 #, 214 #, 277 #, ----total 1807 #. Assuming a 50 % concentrate with a 75 % recovery, the average ore value would be 0.506 %

Ore in Sight and Probable The ore is exposed in 3 open cuts, viz.:

- (1) a face about 100 ft. long x 12 ft. high.
- (2) a face about 80 ft. long x 15 ft. high.
- (3) a face about 50 ft. long x 10 ft. high.

There has been no drill holes put down, or ~~xxx~~ other exploratory work done, as far as I could learn.

Subject:

General Remarks

(A) From a cursory examination of the operation, the following questions present themselves:

(1) Would it not have been cheaper to mine the ore by open pit methods, since there is less than 10 ft. of overburden covering the ore deposit, and roads can be built on the hillside to serve several levels?

(2) Why was not the adit started on the east side of the hill, where it would have been in pay ore almost from the start, eliminating about 500 to 600 ft. of dead work?

(3) Do they know that the ore actually extends down to the elevation of the adit? Mr. Coplan states that, to his knowledge, no drill holes were put down before the adit was started.

(B) From the information gathered on the approximate average ore values and the proposed method of operation, it is difficult to see how the mine can be operated at a profit, especially after the G. S. A. buying schedule is terminated. In discussing this matter with Mr. Coplan, he expressed the same opinion and stated that he expects to get the property back on default of monthly payments.

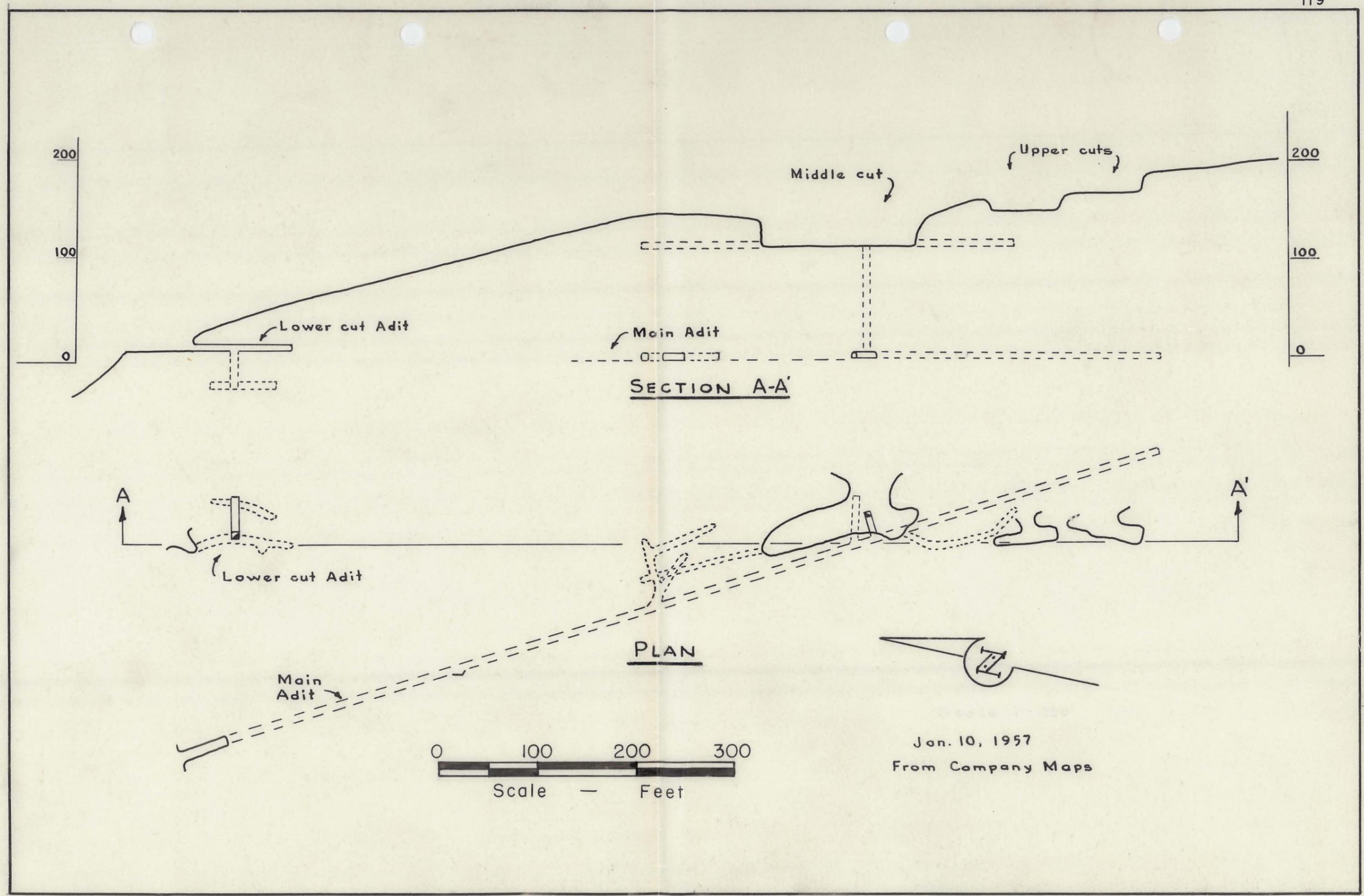


FIGURE 26- PLAN AND SECTION, BIG BANANA MINE

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