



CONTACT INFORMATION

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PRINTED: 05/30/2002

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: OWENS

ALTERNATE NAMES:

RACHEL

HOPE

MOHAVE COUNTY MILS NUMBER: 184A

LOCATION: TOWNSHIP 28 N RANGE 19 W SECTION 1 QUARTER NW
LATITUDE: N 35DEG 50MIN 51SEC LONGITUDE: W 114DEG 16MIN 04SEC
TOPO MAP NAME: SENATOR MOUNTAIN - 15 MIN

CURRENT STATUS: DEVEL DEPOSIT

COMMODITY:

GOLD LODE

COPPER

BIBLIOGRAPHY:

AZ. STATE LAND DEPT. MINERALS MAP
ADMMR "U" FILE CU 10
USGS SENATOR MTN QUAD
ADMMR MOHAVE CARD FILE
ADMMR OWENS FILE
USGS PP1361, P. 163, LOCS. 973, 973A, P. 165
LOC. 1087

12/18/90

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: OWENS

ALTERNATE NAMES:

RACHEL

MOHAVE COUNTY MILS NUMBER: 184A

LOCATION: TOWNSHIP 28 N RANGE 19 W SECTION 1 QUARTER NW
LATITUDE: N 35DEG 00MIN 51SEC LONGITUDE: W 114DEG 15MIN 57SEC
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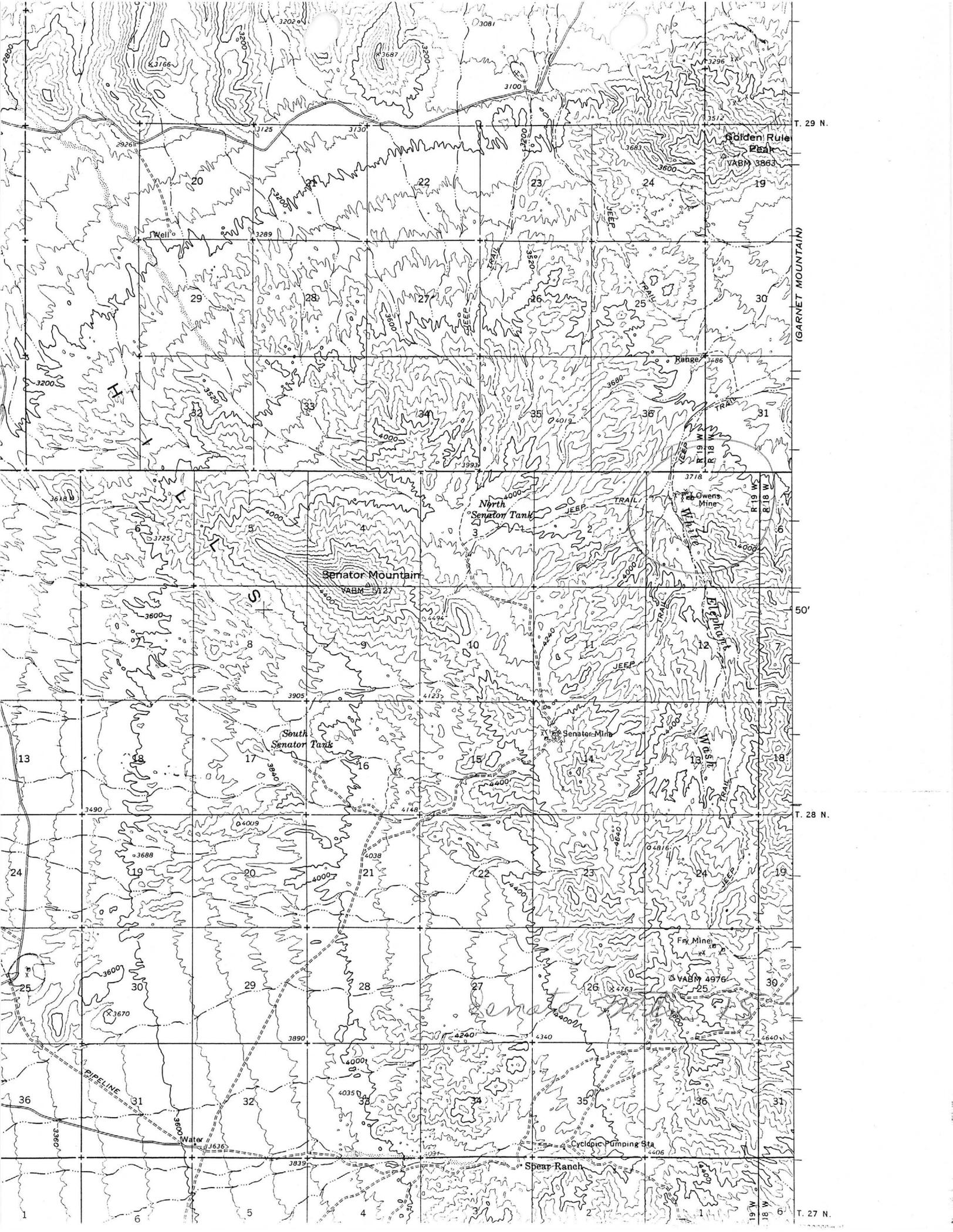
CURRENT STATUS: DEVEL DEPOSIT

COMMODITY:

GOLD LODE
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BIBLIOGRAPHY:

AZ. STATE LAND DEPT. MINERALS MAP
USGS KINGMAN QUAD
USGS SENATOR MTN QUAD
ADMMR MOHAVE CARD FILE
ADMMR OWENS FILE
USGS PP1361, P. 163



T. 29 N.

50'

T. 28 N.

T. 27 N.

(GARNET MOUNTAIN)

Golden Rule Peak
VABM 3863

Senator Mountain
VABM 5127

North Senator Tank

South Senator Tank

Spear Ranch

Fox Mine

VABM 4976

Owens Mine

Cyclic Pumping Sta
4406

Water

PIPELINE

Range

Well

Name of Mine or Prospect: Owens Mine	Township 28N	Range 19W	Section 1 ba	Priority A
Principal Minerals: Gold, Silver Sulfides	1:250,000 Quad Kingman		7.5' - 15' Quad Senator Mtn. SE	
Associated Minerals: Quartz, Feldspar, Hematite, Copper	District Gold Basin		Principal Product Gold, Silver	
Type of Operation: Underground and Open Cuts	County Mohave	State AZ	Type of Deposit Vein	

Ownership or Controlling Interest:
K.N. (Dick) Hart (1979)¹

Access: From Temple Bar, AZ, proceed south on light duty road for 10 miles. Turn left on light duty road for 5 miles, then right and proceed south on jeep trail for 3.5 miles. Mine is shown in topographic quadrangle.

Structural Control or Geological Association:

"Complex system of narrow quartz, feldspar, sulfide and hematite (secondary?) veins along faults in sericitized and kaolinitized paragneiss and alaskite. Fault and vein trends appear to be irregular, but strike generally northward. Zone of alteration appears to be several hundred feet wide."¹

Age of Mineralization:

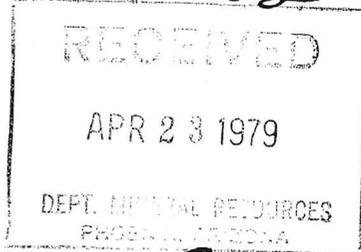
Production History	Geochemical Analyses			
	Assay (1980) ¹	Lab	oz/ton	
Production history is unknown; total production appears to have been minor.	25-I-80-4	U	Gold	Silver
			0.06	0.1
		H	0.056	0.32
		H	0.032	0.21
	80cj180A	H	0.080	None
	180B	H	0.122	0.32
	180C	H	0.014	0.05
	180D	H	0.630	0.03
	180E	H	0.106	0.29
	180F	H	0.026	None
	180G	H	0.312	None
	180H	H	Trace	0.40
	180I	H	Trace	None
	180J	H	0.010	0.03
	180K	H	0.012	0.37
13-III-81-5	S	0.030	0.33	

References

- 1) Liggett (1980) Field reconnaissance.
- 2) Exploration Research Associates Inc. (1980) Memo to W.H. Crutchfield, Jr. (13 June 1980).



Mining, Milling and Development Company
712 E. Beale St. Kingman, Ariz. 86401 602 753-5754



April 21 1979

Steve -

Here is Engineers report on one of the properties I am interested in getting someone to look at.

I also am interested in Helonka-

The problem here - as you know - is not for lack of Ore etc. but of title - that is with Mohave County properties.

This Group of Claims covered by this report, is one of the last Virgin territories around -

See you soon

George

May 29, 1940

Subject: Rachel Mine, Gold Basin,
Mohave County.

Elgin B. Holt,
P. O. Box 288,
Kingman, Arizona.

Mr. J. B. Croslin,
Box 2213,
Warren, Arizona.

Dear Mr. Croslin:

Reference is made to your letter of April 12th regarding the examination I made of the Rachel mine, of this county, belonging to yourself and Henry A. Owens.

With reference to the development work recommended by me at this property, in a synopsis report dated April 9, 1940, which consists of retimbering the Lambert shaft and doing certain drifting and cross-cutting, I note you ask: "If the property were yours would you feel justified in making such an expenditure of money from what you saw on the surface?"

In answer to this question, I wish to call your attention to the fact that in the "Owners Mine Report", submitted by yourself and Mr. Owens, as of January 10, 1939, you made the following request: "Co-owner Croslin wants field engineer's report on this property as a guide in further development." Hence, the development work recommended by me was in compliance to this request, without reference to the merits of property.

Our field engineers are not permitted to recommend any mining property 100%, or to make an appraisal of its value. We do, however, recommend meritorious mines for investigation and you will note I recommended yours in this regard. As a matter of fact, I have already recommended your property for investigation to Dr. Ochs, who represents the Continental Mining Corporation, 80 Broad Street, New York. Dr. Ochs is now actively developing and operating the Ed Williams tungsten mine, in this county, for the corporation referred to, and while in Kingman, stops at the Beale Hotel. He advised me that he is looking for a gold property and I recommended that he give your property the once over. But getting back to your question, before I could personally advise anyone to spend money on your property, I would have to see the results, assay results, of a thorough sampling of all the main workings, and would be guided accordingly.

Very sincerely yours,

cc - J. S. Coupal.

Elgin B. Holt.

APR
May 20, 1940

Subject: Rachel Mine, Gold Basin,
Mohave County.

Elgin B. Holt,
P. O. Box 208,
Kingman, Arizona.

Mr. J. B. Croslin,
Box 2213,
Warren, Arizona.

Dear Mr. Croslin:

Reference is made to your letter of April 12th regarding the examination I made of the Rachel mine, of this county, belonging to yourself and Henry A. Owens.

With reference to the development work recommended by me at this property, in a synopsis report dated April 9, 1940, which consists of retimbering the Lambert shaft and doing certain drifting and cross-cutting, I note you ask: "If the property were yours would you feel justified in making such an expenditure of money from what you saw on the surface?"

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Very sincerely yours,

cc - J. D. Coupal.

Elgin B. Holt.

Warren Ariz 4-12-10
Po Box 2213

Mr. Elgin B. Holt
Box 288
Kingman Ariz

Dear Sir:

I am very grateful to you and wish to thank you for making an examination of the Rockel claims for Mr. Beevers and myself and assure you I would be glad to cooperate in your suggestions if my finances were available to do so. I personally have never been down the Lambert shaft and can not verify those statements.

Now the question is Mr. Holt - and I wish you to frank for it will not hurt my feelings either way, if the property were yours would you feel justified in making such an expenditure of money from what you saw on the surface?

Do not consider this putting you on the spot by no means.

Wishing to thank you again for your cooperation sincerely and truly.

Respectfully

J. B. Croslin

Box 2213

Warren Ariz

Phoenix, Arizona, 19 January 1940

M E M O R A N D U M

TO ELGIN B. HOLT:

When I was in Douglas recently, Mr. J. B. Croslin requested an examination of the Rachel Claims located 5 miles northeast of the Cyclopic Mine.

Mr. Henry A. Owens, Box 311, Chloride, Arizona, is co-owner of this property.

They are anxious to go ahead with development work, and the next time you plan a trip into that particular section, please try and work in an examination of this property.

They would like to know when your plans will permit you to make such an examination. Please advise with Mr. Owens at Chloride.

J. S. Coupal, Director

JSC-jrf

Coupal: I examined the Rachel mine yesterday. It seems like a splendid property.
Am today mailing Croslin's cc of my report.
Holt

August 15, 1939

Mr. J. B. Croslin,
Box 2213,
Warren, Arizona.

Dear Mr. Croslin:

Replying to your letter of August 13, I find that we have on file a mine owners report covering the Rachel Claims.

I am today sending a copy of this report to Mr. Elgin B. Holt, field engineer for the western district, and I am sure that Mr. Holt will make an inspection of this property as soon as time permits.

Assuring you of my desire to be of service, I am

Yours very truly,

J. S. Coupal
Director

JSC-jrf

cc - Holt -

August 14, 1939

Mr. Henry A. Owens,
Box 311,
Chloride, Arizona.

Dear Mr. Owens:

At the request of Mr. J. B. Croslin, Box 2213,
Warren, Arizona, I am enclosing herewith blank Owners Mine
Report, which kindly fill in with information covering the
Rachel Claims and return for our files.

Yours very truly,

J. S. Coupal
Director

JSC-jrf
encl.

Warren Ariz 8-13-39

Mr J. S. Coupl

Dear Sir: Reply to yours of 8-11-39

I filled out such a blank as you sent me some time ago.

Thinking you had it on file I did not give the location, I am very sorry to of caused this mistake.

I have seen Mr Carpenter here several times but as my location does not come under his jurisdiction or his field, he can do me no good.

The claims are located in the Kingman field and are known as the Rachel Claims about 5 miles North of the Cyclopic Mine owned by Henry A. Owens and my self.

I beg your pardon for being so much trouble, and taking granted that you were informed as to location.

Very respectfully,

P.S.

you must have my papers on file. as they filled out over a month ago. Warren,

Ariz
J. J. Brasilin

August 11, 1939

Mr. J. B. Croslin,
Box 2213,
Warren, Arizona.

Dear Mr. Croslin:

I am in receipt of your letter of August 8, and enclose herewith a blank mine owners report, which I should like to have you fill out and return to me for our files. A copy of this report will be sent to Mr. Miles M. Carpenter, the field engineer in the southern district, and when time permits he will call and make an examination.

I should suggest that you arrange to attend the meeting of the Bisbee Council of the Arizona Small Mine Operators Association, which will be held in the Chamber of Commerce on Monday, September 11, at 7:30 P. M. Mr. Carpenter will be present at this meeting and will have a chance to discuss with you the question of an examination.

Yours very truly,

J. S. Coupal
Director

JSC-jrf
encl.

Warren Ariz 8-8-
Department of Mineral Resources.

Dear Sir:

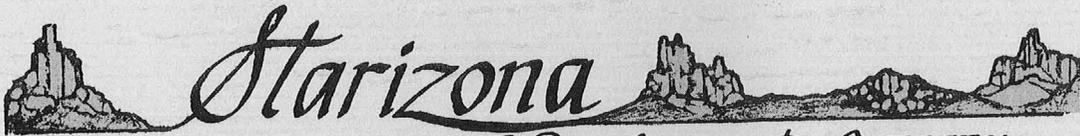
I would like of you as soon as it is possible to have your Engineer to make a survey of the Rachel group of claims as there is a party who wishes to do some development-work with an intent of taking it over if it proves satisfactory. But if it will not stand the test of the Engineer and he does not think it worthy of farther development. Then I might be able to find such as would satisfy them.

You will find Mr Owens on the claims at the present time.

I thank you in advance and extend my best of wishes for your success in this big undertaking.

Sincerely, J. B. Crosslin

Box 2213 Warren Ariz.



Starizona
Mining, Milling and Development Company
712 E. Beale St. Kingman, Ariz. 86401 602 753-5754

RECEIVED

APR 23 1979

DEPT. MINERAL RESOURCES
PHOENIX, ARIZONA

April 21 1979

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JSC-jrf
encl.

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I beg your pardon for being so much trouble, and taking granted that you were informed as to location.

Very respectfully.

P.S.

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Box 2213

Warren,

Ariz

Washington City 8-8-5
Department of Mineral Resources

Dear Sir:

I would like of you to seem as it
is possible to have your Engineers to make
a survey of the Packer group of claims
as there is a party who wishes to do
some development work with an
intent of taking it over if it passes
the satisfactory. But if it will not stand
test of the Engineers and he does not
think it worthy of further development.
Then I might be able to find such as
would satisfy them.
You will find Mr. Brown on the claims
at the present time.
I thank you in advance and I send
my best of wishes for your success in this big
undertaking.
Sincerely, J. B. Brewster
Box 2213, Wash. D.C.

Apr.
May 29, 1940

Subject: Rachel Mine, Gold Basin,
Mohave County.

Elgin B. Holt,
P. O. Box 288,
Kingman, Arizona.

Mr. J. B. Croslin,
Box 2213,
Warren, Arizona.

Dear Mr. Croslin:

Reference is made to your letter of April 18th regarding the examination I made of the Rachel mine, of this county, belonging to yourself and Henry A. Owens.

With reference to the development work recommended by me at this property, in a synopsis report dated April 9, 1940, which consists of retimbering the Lambert shaft and doing certain drifting and cross-cutting, I note you ask: "If the property were yours would you feel justified in making such an expenditure of money from what you saw on the surface?"

In answer to this question, I wish to call your attention to the fact that in the "Owners Mine Report", submitted by yourself and Mr. Owens, as of January 10, 1939, you made the following request: "Co-owner Croslin wants field engineer's report on this property as a guide in further development." Hence, the development work recommended by me was in compliance to this request, without reference to the merits of property.

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Very sincerely yours,

Elgin B. Holt.

cc - J. B. Coupal.

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Very sincerely yours,

Elgin B. Holt.

cc - J. S. Coupal.

Warren Ariz 4-12-40
Po Box 2213

Mr Edgin. B. Holt
Box 288
Kingman Ariz

Dear Sir:

I am very grateful to you and wish to thank you for making an examination of the Rachel claims for Mr. Beevers and myself and assure you I would be glad to cooperate in your suggestions if my finances were available to do so. I personally have never been down the Lambert shaft and can not verify those statements.

Now the question is Mr Holt and I wish you to frank for it will not hurt my feelings either way, if the property were yours would you feel justified in making such an expenditure of money from what you saw on the surface?

Do not consider this putting you on the spot by no means.

Wishing to thank you again for your cooperation
Sincerely and truly.

Respectfully

J. B. Crosslin

Box 2213

Warren Ariz

RACHEL CLAIMS

MOHAVE COUNTY

RRB WR 3/27/81: Richard L. Nielsen, Nielsen Geoconsultants Inc., Suite 9B, CSB Bldg, 3560 N. Highway 74, Evergreen, Colorado 80439, was in the office looking at several properties in Yuma, Maricopa, and Mohave Counties for Hecla. He had the files for Rachel Claims, Mohave County, copied.

NJN WR 8/14/87: Nerco Minerals (card) reported that they are active at one Arizona property in Mohave County, the Owens Mine (Rachel Claim - file).

R/H

August 7, 1958

Memo re Rachel Claims, Gold Basin Dist., Mohave County
(3 Unpatented)

Owner: J. W. Miller, Route 2, Box ⁸⁰⁶~~728~~, Tucson

29 mi NE from Hwy 93 on Pierce Ferry Rd., 5 mi NE Cyclopic, 61 mi from Kingman

Formerly owned by Henry A. Owens of Kingman (deceased), now owned by Miller, son-in-law of Owens

Assessment work maintained. Plan to core drill in 1959

See file w/report by Holt (1940) No work except assessment since then.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine RACHEL

Date April 9, 1940

District Gold Basin, Mohave Co.

Engineer Elgin B. Holt,
P. O. Box 288,
Kingman, Ariz.

Subject:

SYNOPSIS REPORT

OWNERS: Henry A. Owens, Box 311, Chloride, Arizona.
J. B. Croslin, Box 2213, Warren, Arizona.

METALS: Gold & copper.

LOCATION: Located in Gold Basin, Mohave County, 5 miles N. E. of the Cyclopic mine. Reached by fair road leading from Highway 93. Distance from Kingman, 61 miles.

GEOLOGY: Country rock consists of grano-diorite, associated with altered pre-Cambrian granite and other rocks, all so highly altered that it is difficult to determine their species.

VEINS: A number of parallel veins from 4 to 6 feet wide traverse property, forming a mineralized zone about 500 feet wide and traceable for a long distance. Area, so far prospected by test pits and one shaft 125 feet deep, approximates 700 feet in length by 500 feet wide.

DEV. WORK: Lambert shaft was sunk years ago on main vein to depth of 125 feet. Dip of vein and shaft about 58 deg. north; strike easterly and westerly. At bottom there is a drift on vein 10 feet east and another drift 20 ft. west, from which 50 feet of cross-cutting has been done. Though this shaft is untimbered and could not be entered due to ladders having been removed, it is in good condition and could be used as a prospect shaft, if timbered and ladders and skip-way installed.

RECOMMENDATIONS: I recommend that the said shaft be retimbered, a skip and ladder way installed, including a small hoist and head-frame, and that the following exploratory work be carried out:

1. The east drift should be continued about 40 feet, where a station should be cut and then cross-cuts should be run north about 150 feet and south the same distance, in order to intersect several veins outcropping on surface. After this is done, drifts should be run on all veins that may be cut, east and west, in order to prospect the same for sampling.
2. The west drift should be continued westward about 200 feet and then cross-cuts run north and south in order to cut several parallel veins, which should be explored by drifts, in the same manner outlined above.
3. Should the above work result in the uncovering of ore of milling grade, then and in that event the shaft should be deepened another hundred feet, and similar work described above carried out. While at property, I could form no opinion as to average

gold and copper values in the ore due to assay data not being available. However, Mr. Owens stated: "Lambert shaft said to have run from \$8.00 to \$14.00 gold on channel cuts taken at 10-ft. intervals on all four sides of shaft, to 60 ft. depth."

Furthermore, Mr. Owens took a number of samples from surface pits and panned the same, while I was visiting property, and all showed considerable free gold.

REMARKS: The property has all the ear-marks, when and if adequately developed, that it will supply a 50-ton mill with a goodly grade of ore over a long period of years. It is recommended for investigation to anyone looking for this type of a property.

WATER: Water for domestic use is now hauled from the Cyclopic mine, five miles distant. At the present time, there is no water at all near property for milling; but possibly water wells could be developed within five or six miles of mine. The nearest known water supply is the Colorado River, 12 miles north of the mine, which is located, at an elevation of 3,940 feet above sea level, in Sec. 1, T28N - R19W.

cc - J. B. Croslin, Box 2213,
Warren, Arizona.

Rachel Mine

Page #2

April 9, 1940.

E. B. H.

MR 1

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

Hold copy
Willis copy
over has copy

Date July 10, 1939.

Mine Rachel Claims

District Mohave Co.

Location 5 mi. NE of Cyclopic.

Former name Lambert Shaft.

Owner Henry A. Owens (& J. B. Croslin)
Box 2213, Warren

Address Box 311 Chloride, Ariz.

Operator Henry A. OWENS

Address Same

President No corp.

Gen. Mgr.

Mine Supt.

Mill Supt.

Principal Metals Copper, gold.

Production Rate Not established

Power: Amt. & Type None

Operations: Present Idle

RACHEL CLAIMS		
Cu, Au		
Mohave	8 - 6	T28 N, R 18 W
Henry Owens		'40

Operations Planned Depend on financing.

Number Claims, Title, etc. ^{3 1/2} Five unpatented lode claims on public domain. 40 acres leased Santa Fe R. R.

Description: Topog. & Geog. On a spur of small mountain. Vein crosses the ridge which rises about 70 ft. above level of wash.

Mine Workings: Amt. & Condition Lambert incline shaft is 120 ft. deep with a 10 ft. drift in bottom. Tunnel bearing S, length 70 ft. Numerous cutsand shallow shafts.

Geology & Mineralization Country rock diorite and other porphyritic rocks. Lambert shaft dips about 45 deg.

Ore: Positive & Probable, Ore Dumps, Tailings Lambert shaft said to have run from \$8.00 to \$14.00 in gold on channel cuts taken at 10 ft. intervals on all four sides of shaft, to 60 ft. depth.

Mine, Mill Equipment & Flow Sheet None.

Road Conditions, Route Hwy Kingman-Boulder Dam turn right 4 miles below Valley Station on Cyclopic Road. About ten miles out on Pearce Ferry Road, take left hand road to Cyclopic. Rachel claims about five miles down canyon.

Water Supply Water hauled from Cyclopic.

Brief History The Lambert shaft was sunk about 1890, and was included in 80 acres of mineral land excluded from a R R grant.

Special Problems, Reports Filed None

Remarks Co-owner Croslin wants field engineers report on this property as a guide in further development. Also requests owners report blank be sent to Mr. Owens for further information.

If property for sale: Price, terms and address to negotiate. Co-owner leaves question of sale, price and terms to Henry A. Owens, Box 311, Chloride, Ariz.

Signed..... J. B. Croslin.....

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

Date July 10, 1939

Mine Rachel Claims

District Mohave Co.

Former name Lambert Shaft

Owner Henry A. Owens (& J.B. Croslin, Box 2213
Warren, Arizona)

Operator Henry A. Owens

President No corp.

Mine Supt.

Principal Metals copper, gold

Production Rate not established

Power: Amt. & Type none

Operations: Present idle

Location 5 mi. NE of Cyclopic

Address Box 311, Chloride, Ariz.

Address Same

Gen. Mgr.

Mill Supt.

Men Employed

Mill: Type & Cap.

Operations Planned Depend on financing

Number Claims, Title, etc. ^{3/4} Five, unpatented lode claims on public domain. 40 acres leased
Santa Fe R.R.

Description: Topog. & Geog. On a spur of small mountain. Vein crosses the ridge which rises
about 70 ft. above level of wash.

*A series of 18 veins, forming
a mineral zone 700' wide
strike N E - S W.*

Mine Workings: Amt. & Condition Lambert incline shaft is ^{125'} 120 ft. deep with a 10 ft. drift in
bottom. Tunnel bearing S, length 70 ft. Numerous cuts and
shallow shafts.

*Running E of another drift W 20' from
which there is a cross-cut 51'.*

(over)

Geology & Mineralization Country rock diorite and other porphyritic rocks. Lambert shaft dips about ~~45~~ deg.

60

Ore: Positive & Probable, Ore Dumps, Tailings Lambert shaft said to have run from \$8.00 to \$14.00 in gold on channel cuts taken at 10 ft. intervals on all four sides of shaft, to 60 ft. depth. O.K.

Mine, Mill Equipment & Flow Sheet None

Road Conditions, Route Hwy Kingman-Boulder Dam turn right 4 miles below Valley Station on Cyclopic Road. About ten miles out on Pearce Ferry Road, take left hand road to Cyclopic. Rachel claims about five miles down canyon.

Water Supply Water hauled from Cyclopic.

Brief History The Lambert shaft was sunk about 1890, and was included in 80 acres of mineral land excluded from a R R grant.

Special Problems, Reports Filed None

Remarks Co-owner Croslin wants field engineers report on this property as a guide in further development. Also requests owners report blank be sent to Mr. Owens for further information.

If property for sale: Price, terms and address to negotiate. Co-owner leaves question of sale, price and terms to Henry A. Owens, Box 311, Chloride, Ariz.

Signed..... J. B. CROSLIN.....

Use additional sheets if necessary.

RACHEL GROUP

*from file
papers
no date*

The mine is located in T. 28 N., R. 19 W., in the Gold Basin mining district on a gently sloping hillside among the White Hills, north of the Cerbat Range. The country rock is a granite gneiss in which occurs a series of East-West fractures, dipping 50-60° N. and a few fractures striking N-S and dipping steeply west. In places the fractures carry a vein filling of quartz and crushed wall rock and are mineralized with gold and copper accompanied by specular hematite.

The only known production from the Rachel Group is a lot of ore shipped by Mr. Moore. The settlement sheet is not available but according to Mr. Moore the lot contained 31 tons and returned a net of \$35.62 per ton on material running 10% Cu; the balance of the value being in gold. The shipment was made by gathering up the accumulated sorted material from a great many scattered dumps on the property.

Development on the property consists of many shafts (the deepest 135 ft.), pits and cuts, and one tunnel 70 feet long. Most of the workings are on fractures which strike E-W. One shaft and several cuts are on N-S fractures. The work was done chiefly in the search for gold ore and work was usually begun upon surface exposures showing copper stains.

RACHEL CLAIMS

MOHAVE COUNTY

RRB WR 3/27/81: Richard L. Nielsen, Nielsen Geoconsultants Inc., Suite 9B, CSB Bldg, 3560 N. Highway 74, Evergreen, Colorado 80439, was in the office looking at several properties in Yuma, Maricopa, and Mohave Counties for Hecla. He had the files for Rachel Claims, Mohave County, copied.

NJN WR 8/14/87: Nerco Minerals (card) reported that they are active at one Arizona property in Mohave County, the Owens Mine (Rachel Claim - file).

August 7, 1958

Memo re Rachel Claims, Gold Basin Dist., Mohave County
(3 Unpatented)

Owner: J. W. Miller, Route 2, Box ⁸⁰⁶~~728~~, Tucson

29 mi NE from Hwy 93 on Pierce Ferry Rd., 5 mi NE Cyclopic, 61 mi from Kingman

Formerly owned by Henry A. Owens of Kingman (deceased), now owned by Miller, son-in-law of Owens

Assessment work maintained. Plan to core drill in 1959

See file w/report by Holt (1940) No work except assessment since then.

May 27, 1957

RACHEL CLAIMS

MOHAVE COUNTY
GOLD BASIN DIST.

No information on this property.

MARK GEMMILL

gold and copper values in the ore due to assay data not being available. However, Mr. Owens stated: "Lambert shaft said to have run from \$8.00 to \$14.00 gold on channel cuts taken at 10-ft. intervals on all four sides of shaft, to 60 ft. depth."

Furthermore, Mr. Owens took a number of samples from surface pits and panned the same, while I was visiting property, and all showed considerable free gold.

REMARKS: The property has all the ear-marks, when and if adequately developed, that it will supply a 50-ton mill with a goodly grade of ore over a long period of years. It is recommended for investigation to anyone looking for this type of a property.

WATER: Water for domestic use is now hauled from the Cyclopic mine, five miles distant. At the present time, there is no water at all near property for milling; but possibly water wells could be developed within five or six miles of mine. The nearest known water supply is the Colorado River, 12 miles north of the mine, which is located, at an elevation of 3,940 feet above sea level, in Sec. 1, T28N - R19W.

cc - J. B. Croslin, Box 2213,
Warren, Arizona.

Rachel Mine

Page #2

April 9, 1940.

E. B. H.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine RACHEL

Date April 9, 1940

District Gold Basin, Mohave Co.

Engineer Elgin B. Holt,
P. O. Box 288,
Kingman, Ariz.

Subject:

SYNOPSIS REPORT

OWNERS: Henry A. Owens, Box 311, Chloride, Arizona.
J. B. Croslin, Box 2213, Warren, Arizona.

METALS: Gold & copper.

LOCATION: Located in Gold Basin, Mohave County, 5 miles N. E. of the Cyclopic mine. Reached by fair road leading from Highway 93. Distance from Kingman, 61 miles.

GEOLOGY: Country rock consists of grano-diorite, associated with altered pre-Cambrian granite and other rocks, all so highly altered that it is difficult to determine their species.

VEINS: A number of parallel veins from 4 to 6 feet wide traverse property, forming a mineralized zone about 500 feet wide and traceable for a long distance. Area, so far prospected by test pits and one shaft 125 feet deep, approximates 700 feet in length by 500 feet wide.

DEV. WORK: Lambert shaft was sunk years ago on main vein to depth of 125 feet. Dip of vein and shaft about 58 deg. north; strike easterly and westerly. At bottom there is a drift on vein 10 feet east and another drift 20 ft. west, from which 50 feet of cross-cutting has been done. Though this shaft is untimbered and could not be entered due to ladders having been removed, it is in good condition and could be used as a prospect shaft, if timbered and ladders and skip-way installed.

RECOMMENDATIONS: I recommend that the said shaft be retimbered, a skip and ladder way installed, including a small hoist and head-frame, and that the following exploratory work be carried out:

1. The east drift should be continued about 40 feet, where a station should be cut and then cross-cuts should be run north about 150 feet and south the same distance, in order to intersect several veins outcropping on surface. After this is done, drifts should be run on all veins that may be cut, east and west, in order to prospect the same for sampling.
2. The west drift should be continued westward about 200 feet and then cross-cuts run north and south in order to cut several parallel veins, which should be explored by drifts, in the same manner outlined above.
3. Should the above work result in the uncovering of ore of milling grade, then and in that event the shaft should be deepened another hundred feet, and similar work described above carried out. While at property, I could form no opinion as to average

RACHEL GROUP

*From file
Referred
No date*

The mine is located in T. 28 N., R. 19 W., in the Gold Basin mining district on a gently sloping hillside among the White Hills, north of the Cerbat Range. The country rock is a granite gneiss in which occurs a series of East-West fractures, dipping 50-60° N. and a few fractures striking N-S and dipping steeply west. In places the fractures carry a vein filling of quartz and crushed wall rock and are mineralized with gold and copper accompanied by specular hematite.

The only known production from the Rachel Group is a lot of ore shipped by Mr. Moore. The settlement sheet is not available but according to Mr. Moore the lot contained 31 tons and returned a net of \$35.62 per ton on material running 10% Cu; the balance of the value being in gold. The shipment was made by gathering up the accumulated sorted material from a great many scattered dumps on the property.

Development on the property consists of many shafts (the deepest 135 ft.), pits and cuts, and one tunnel 70 feet long. Most of the workings are on fractures which strike E-W. One shaft and several cuts are on N-S fractures. The work was done chiefly in the search for gold ore and work was usually begun upon surface exposures showing copper stains.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT.

Date July 10, 1939

Mine Rachel Claims

District Mohave Co.

Location 5 mi. NE of Cyclopic

Former name Lambert Shaft

Owner Henry A. Owens (& J.B. Croslin, Box 2213
Warren, Arizona)

Address Box 311, Chloride, Ariz.

Operator Henry A. Owens

Address Same

President No corp.

Gen. Mgr.

Mine Supt.

Mill Supt.

Principal Metals copper, gold

Men Employed

Production Rate not established

Mill: Type & Cap.

Power: Amt. & Type none

Operations: Present idle

Operations Planned Depend on financing

Number Claims, Title, etc. ^{3 1/2} Five unpatented lode claims on public domain. 40 acres leased
Santa Fe R.R.

Description: Topog. & Geog. On a spur of small mountain. Vein crosses the ridge which rises
about 70 ft. above level of wash.

*A series of 18 veins, forming
a mineral zone 700' wide
strike NE-SW.*

Mine Workings: Amt. & Condition Lambert incline shaft is ^{125'} 120 ft. deep with a 10 ft. drift in
bottom. Tunnel bearing S, length 70 ft. Numerous cuts and
shallow shafts.

*2 running E & another drift W 20' from
which there is a cross-cut 50'.*

(over)

DEPARTMENT OF MINERAL RESOURCES
Geology & Mineralization Country rock diorite and other porphyritic rocks. Lambert shaft dips about 45 deg. 60

Ore: Positive & Probable, Ore Dumps, Tailings Lambert shaft said to have run from \$8.00 to \$14.00 in gold on channel cuts taken at 10 ft. intervals on all four sides of shaft, to 60 ft. depth. O.K.

Mine, Mill Equipment & Flow Sheet None

Road Conditions, Route Hwy Kingman-Boulder Dam turn right 4 miles below Valley Station on Cyclopic Road. About ten miles out on Pearce Ferry Road, take left hand road to Cyclopic. Rachel claims about five miles down canyon.

Water Supply Water hauled from Cyclopic.

Brief History The Lambert shaft was sunk about 1890, and was included in 80 acres of mineral land excluded from a R R grant.

Special Problems, Reports Filed None

Remarks Co-owner Croslin wants field engineers report on this property as a guid in further development. Also requests owners report blank be sent to Mr. Owens for further information.

If property for sale: Price, terms and address to negotiate. Co-owner leaves question of sale, price and terms to Henry A. Owens, Box 311, Chloride, Ariz.

Signed J. B. CROSLIN

MR 1

m m c has copy

Hold copy

willis copy - owner has copy

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

Date July 10, 1939.

Mine Rachel Claims

District Mohave Co.

Location 5 mi. NE of Cyclopic.

Former name Lambert Shaft.

Owner Henry A. Owens (& J. B. Croslin)
Box 2213, Warren

Address Box 311 Chloride, Ariz.

Operator Henry A. Owens

Address Same

President No corp.

Gen. Mgr.

Mine Supt.

Mill Supt.

Principal Metals Copper, gold.

Production Rate Not established

Power: Amt. & Type None

Operations: Present Idle

RACHEL CLAIMS			
Cu, Au			
Mohave	8 - 6	T28 N, R 18 W	
Henry Owens			40

Operations Planned Depend on financing.

Number Claims, Title, etc. ^{3 1/2} Five unpatented lode claims on public domain. 40 acres leased Santa Fe R. R.

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Mine Workings: Amt. & Condition Lambert incline shaft is 120 ft. deep with a 10 ft. drift in bottom. Tunnel bearing S, length 70 ft. Numerous cuts and shallow shafts.

DEPARTMENT OF MINERAL RESOURCES
Geology & Mineralization Country rock diorite and other porphyritic rocks. Lambert shaft dips about 45 deg.

Ore: Positive & Probable, Ore Dumps, Tailings Lambert shaft said to have run from \$8.00 to \$14.00 in gold on channel cuts taken at 10 ft. intervals on all four sides of shaft, to 60 ft. depth.

Mine, Mill Equipment & Flow Sheet None.

Road Conditions, Route Hwy Kingman-Boulder Dam turn right 4 miles below Valley Station on Cyclopic Road. About ten miles out on Pearce Ferry Road, take left hand road to Cyclopic. Rachel claims about five miles down canyon.

Water Supply Water hauled from Cyclopic.

Brief History The Lambert shaft was sunk about 1890, and was included in 80 acres of mineral land excluded from a R R grant.

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Remarks Co-owner Croslin wants field engineers report on this property as a guide in further development. Also requests owners report blank be sent to Mr. Owens for further information.

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Signed..... J. B. Croslin

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

Date July 10, 1939.

Mine Rachel Claims

District Mohave Co.

Location 5 mi. NE of Cyclops.

Former name Lambert Shaft.

Owner Henry A. Owens (& J. B. Groslin)
Box 2213, Warren

Address Box 311 Chino, Ariz.

Operator Henry A. Owens

Address Same

President No corp.

Gen. Mgr.

Mine Supt.

Mill Supt.

Principal Metals Copper, gold.

Men Employed

Production Rate Not established

Mill: Type & Cap.

Power: Amt. & Type None

Operations: Present Idle

Operations Planned Depend on financing.

Number Claims, Title, etc. Five unpatented lode claims on public land, 40 acres leased
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Description: Topog. & Geog. On a spur of small mountain. Vein crosses the ridge which rises
about 70 ft. above level of wash.

Mine Workings: Amt. & Condition Lambert incline shaft is 120 ft. deep with a 10 ft. drift in
bottom. Tunnel bearing S, length 70 ft. Numerous cut and
shallow shafts.

Geology & Mineralization

Country rock diorite and other porphyritic rocks. Lambert shaft dips about 45 deg.

Ore: Positive & Probable, Ore Dumps, Tailings

Lambert shaft said to have run from \$9.00 to \$14.00 in gold on channel cuts taken at 10 ft. intervals on all four sides of shaft, to 60 ft. depth.

Mine, Mill Equipment & Flow Sheet

None.

Road Conditions, Route

From Kingman-Boulder Dam turn right 4 miles below Valley Station on Cyclopic Road. About ten miles out on Pearce Ferry Road, take left hand road to Cyclopic. Rachel claims about five miles down canyon.

Water Supply

Water hauled from Cyclopic.

Brief History

The Lambert shaft was sunk about 1890, and was included in 80 acres of mineral land excluded from a R R grant.

Special Problems, Reports Filed

None

Remarks

Co-owner Croelin wants field engineers report on this property as a guide in further development. Also requests owners report blank be sent to Mr. Owens for further information.

If property for sale: Price, terms and address to negotiate.

Co-owner leaves question of sale, price and terms to Henry A. Owens, Box 511, Chloride, Ariz.

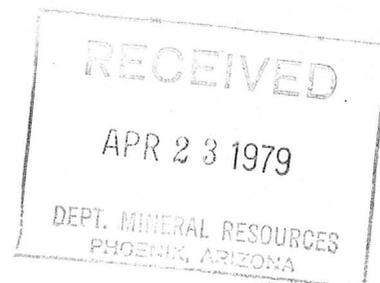
Signed..... J. B. Croelin.....

SUMMARY REPORT
of the
OWENS MINE
INDIANS' SECRET MINING DISTRICT
MOHAVE COUNTY, ARIZONA

by

Marion E. Price, P.E.
Geological Engineer

MARION E. PRICE
GEOLOGICAL ENGINEER
R. P. E. - NEVADA - NO. 974
1505 BENNETT ROAD
MOUNT VERNON, WASH. 98273
206 424-7735



January 15, 1979

Summary Report of the Owens Mine (aka "Mean Annie Group"), Indians' Secret Mining District, Mohave County, Arizona:

Description of the Area: The specific area under consideration is, in effect, the N/2 NW/4 of Section 1, T 28 N, R 19 W, G&SR B&M. It is technically described, however, as Government Lots Nos. 3 and 4 of Section 1. While these two Lots are within the Public Domain, they are bordered to the east and to the south by railroad grant lands. When conveyance was made to the AT&SF RR under the Land Grant Act, these two Government Lots were withheld under a Federal Mineral Withdrawal and the railroad received 80-acres of 'lieu land' elsewhere. The reason for the Withdrawal was that there were broad showings of copper mineralization within the limits of GL's Nos. 3 and 4, and it is possible that there were valid unpatented lode mining claims in existence at the time also. The general area is shown on Figure 1 and more specific details are given on Figures 2 and 3. The road distance from Kingman is 61.5-miles.

Also unusual with respect to adjacent lands is the conjunctive relationship of the State of Arizona Mineral Trust Lands in Section 2 of T 28 N, R 19 W, and also in Section 36, T 29 N, R 19 W. This relationship is shown on Figures 2 and 3, and the vertical relationship of Sections 1 and 36 is shown on Figure 4. The visible extent of the mineralization dips to the North toward Section 36 and it strikes to the West toward Section 2. The projections into each of these Sections is covered with alluvium, however.

District Name: Though the area is generally referred to as "Gold Basin", the proper name is the "Indian's (or Indians') Secret Mining District", and it comprises the northern extremity of the White Hills. This area is unquestionably the source of the auriferous gravels in the Gold Basin Mining District which lies mostly north and northeast a varying distance of one to five miles

from the Owens Mine. This writer has been working in both Districts and arbitrarily divides them according to the blue line (and long dashes) as shown on Figure 2. Also shown on Figure 2 is the Owens Mine (in red), State of Arizona Mineral Trust Lands in Sections 2 and 36 (shaded darkly), the roads into and through the area (highlighted in green), and the areas of this writer's activities in Gold Basin (highlighted in orange).

Property Name: For many years this property has been known as the "Owens Mine" and this name is not to be confused with the Owens Mining District which is located in southern Mohave County. During the current work in Gold Basin, this writer has talked to "old timers" who remember the Owens family and speak kindly of them. Owens did ship some high grade copper and gold, and possibly owners before them shipped also. Most of the work was done on mineralized structures, and the volume of the underground workings far exceeds the volume of the existing dumps.

The name "Mean Annie" was given to the property by the present locator and owner, Mr. Dick Hart of Kingman. This name has been perpetuated in the present conveyance to George Mc Devitt and his Associates, thus two names are in common use and appear in the Mohave County records. For purposes of this reporting, this writer prefers the name of "Owens" and it will be used selectively hereinafter.

Claims: The Mean Annie Group as now located comprises seven (7) lode mining claims, though it is not certain as of this writing just how these are located. It is believed that the present locator was not aware of the precise boundaries of Government Lots 3 and 4, thus he simply overlapped them onto Railroad ground and possibly onto State Mineral Trust lands also. Normally it would require four (4) full-size lode mining claims of 20.661-acres each to cover an 80-acre parcel. However the lesser configuration of 1500' x 600' is not concordant to the larger dimensions of 2640' x 1320' (approximately), thus some special set of dimensions must be adapted to remain within the areal limits of GI's 3 and 4 and yet conform to the maximum dimensions allowable for a lode mining claim.

Amended Locations: In order to remove any ambiguity and/or overlap onto surrounding lands which are not open for mineral entry, these claims must ultimately be amended. For practical purposes and for conformance to the existing regulations regarding the recording of unpatented lode mining claims with the Bureau of Land Management, it must be done before October 21, 1979. Though there are several ways in which this could be done, the arrangement shown in Figure 3 is the one especially recommended for the following reasons:

- (1) It conforms to the apical concept under the mining laws of 1872;
- (2) It precludes overlap onto adjoining State and/or railroad grant lands if surveyed according to the distances shown on the survey plat of T 19 N, R 28 W; and,
- (3) It provides for the minimum number of locations which conform to the apical concept as in (1) above.

As shown in Figure 3, there are four (4) lode mining claims of approximately 1320-feet (plus) long by 600-feet wide and two fractional lode mining claims of the same length but approximately 120-feet wide. The task of locating and/or amending a lode mining claim is much simplified under the new Arizona regulations which became effective on September 3, 1978. Inasmuch as McDevitt and Associates have already made a preliminary survey of the area and have located the pertinent GLO survey monuments which are extant, the matter of making the amended survey is a fairly simple task.

Filing: On or before October 21, 1979, there must be a filing of all unpatented claims and fractions (whether lode or placer) with the Bureau of Land Management, and the pertinent details are given hereinafter on pages 24-S through 27-S. The cost of this filing will be \$5.00 per claim or fractional claim, or a total of \$30.00 for the Mean Annie Group as shown on Figure 3. There is no charge for filing the survey plat.

Recent History: The narrative of the recent history of the Group has been obtained partly from the owner and partly from others in the Kingman area who, for one reason or another, have some background information regarding the situation. This writer has not made

a search of the records, however, and the background information is therefore presented at face value.

This writer first examined the Owens area on August 13, 1978, in company with George McDevitt and the owner, Dick Hart. Since that time he has made numerous trips to the vicinity, both to the Gold Basin and the Indians' Secret Districts. An especial effort has been made to relate the some of the auriferous gravels to the Owens as a source.

The Owens deposit has been the subject of more than casual interest to others, for rather recently (in 1975) the El Paso Natural Gas Company optioned the property and began a surface study which, judging from the surface-grid staking that was done, was intended to be extensive. This work continued into 1976 but was terminated prematurely when an adverse locator surfaced as claimant of the ground, for then El Paso aborted the project and disclaimed back to Mr. Hart. He then sued to quiet his title and won a default judgment which restored his possessory title to the claims to a status of good standing. El Paso provided him with copies of their works and these have been made available to this writer to be included as a Supplement to this report, and these appear hereinafter on pages 1-S through 14-S. The tenor of this work is optimistic and it does show that there are anomalous zones of copper, gold, and silver occurrences over a broad area of exposed outcrops. Two magnetometer traverses were made and three self-potential lines were run also over the area to the northeast of the exposed outcrop. Both methods displayed anomalies showing that the mineralized zone does project to the northeast and under the overlying gravels.

Supplement to El Paso Natural Gas Company's Work: Despite the subdued relief of the Owens area, the mineralized zone does outcrop prominently along the southern boundary of Government Lots 3 and 4, and, in fact, to a very minor extent within the limits of railroad grant lands to the south. This relationship is shown in Figure 4. Figure 4 also represents this writer's concept in idealized form of his interpretation of the Owens ore body. From what can be observed

on the ground, the mineralization occurs in a tabular zone which is generally conformable to the pseudo-stratification which is to be seen very clearly in the biotite gneiss along the White Elephant Wash. Nowhere is the upper limit of the mineralization visible, however, for along its entire exposure it disappears under surface sand and gravels which are, in part at least, auriferous. Some placering of ore has followed the drainage up to the Owens outcrop and stopped there.

The tabular or sill-like occurrence as idealized in Figure 4 is conjectural as far as the upper limit of the mineralization is concerned, though the lower limit is rather well established. It is this writer's concept that the deposit dips toward the north and that it may well project into Section 36. Inasmuch as it is apparently tabular with an elongate east-west dimension, it can strike into Section 1. As shown on Figures 2 and 3, both of these sections are State Mineral Trust lands and can be acquired for exploration under a prospecting permit or for operational purposes under a State Mineral Lease.

Reference to El Paso Natural Gas Company's magnetometer profile shown on Page 4-S and to the three self-potential profiles on Page 5-S indicate anomalous zones which extend well beyond the visible limits of the surface outcrops. This writer feels that in projecting far to the northeast they were run off-structure, however, for it appears to project more to the north. While the double-peaked magnetometer anomaly could be attributable to several different subsurface situations, the self-potential anomalies are more specifically attributable to the presence of metallic sulphides which are undergoing decomposition. In this case the sulphide would be chalcopyrite, and the importance of such mineralization at depth cannot be overstated.

Of further especial importance in this connection is the profusion of pitcher plants which prevails in the vicinity of the northwest corner of Section 1 and projecting westward into Section 2 and northward into Section 36. This writer has long used this plant as

an indicator for available soil sulphur and repeatedly has found it growing in and below the outcrops of sulphide veins. However the plant is partial to areas containing gypsum also, thus care must be exercised when determining the reason(s) for the plant's presence. The fact that big plants are growing in profusion over a substantial area is considered a favorable indicator, however.

Another interesting and perhaps important anomaly is observed in the suddenly-subdued topography which occurs immediately above the footwall contact of the mineralized zone. Here there is visible evidence of selective erosion which may be due to (1) the mechanical shattering of the host during the invasion of the dikes and sills and (2) a softening of the invaded rock by the chemical alteration incident to mineralization. Both influences tend to reduce the resistance of the hard granite gneiss country rock and thus make it more susceptible to erosion, and the apparent effect perpetuates down-dip and along strike to the west as well. It is not apparent to the east, however, where hard unaltered rocks are very much in evidence.

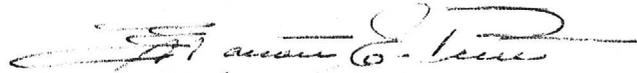
Recommendations: From everything that can be seen or reasonably inferred at the Owens, it is predicted that gold, silver, and copper mineralization prevails (1) in down-dip projections to the North and (2) along strike projections to the West. As shown in the idealized sketch in Figure 4, it is believed to have a flat dip which augurs well for open cut mining. In that light the following recommendations are made regarding the Owens property:

- (1) Property acquisitions: Sections 2 and 36 are available under a Prospecting Permit for \$2.00/acre/year for a period of 5-years and by Mineral Lease thereafter for 20-years (renewable) for the ground which is mineralized;
- (2) Geophysical Surveying: The lay of the surface and the projected flat dip make for an ideal situation to use an induced polarization (commonly referred to as "IP") survey. Nothing has been noted in the country rock surrounding the Owens which would give a false anomaly and the indicated shallow depth would promote good definition of the ore body using a close dipole spacing. An electromagnetic survey could also be considered; and

- (3) Development Drilling: As in (2), the lay of the land and a projected shallow target make an ideal situation for vertical exploratory and development drilling. Such drilling would probably consist of (a) churn drilling and casing through the sand and gravel overburden (and checking for placer gold values in the process) and (b) downhole hammer in the mineralized formation with coring optional to check against recovered cuttings. It is believed that a careful site selection for the first hole could produce a much-needed water well also.

In light of what can be seen, what has been done, and what can be projected reasonably, it is considered that the Owens is a very unusual prospect and worth much further exploration and development. If further indirect methods are used, an induced polarization survey is recommended. It is believed, however, that surface and indirect methods have been carried far enough to warrant a direct approach by drilling. It is emphasized here that the targets and mineral values under consideration are for an open cut operation, and the Owens gives early indication for satisfying both requirements.

Respectfully submitted:



Marion E. Price, P.E.
Geological Engineer

MEP:p

Index to Supplement

Geologic Report by El Paso Natural Gas Co.	Page:	1-S & 2-S
Geologic Sketch ditto		3-S
Magnetometer Survey ditto		4-S
Self Potential Survey ditto		5-S
Assay sheet missing ditto		6-S
Conversion Table		6-S
Geochemical Assays El Paso Natural Gas Co.		7-S & 8-S
Copper anomaly map ditto		9-S
Gold " " ditto		10-S
Silver " " ditto		11-S
Geochemistry maps: Copper, gold, silver (unknown source)		12-S -14-S
Random assays, various sources		15-S -23-S
Filing Regulations, U.S.B.I.M.		24-S -27-S

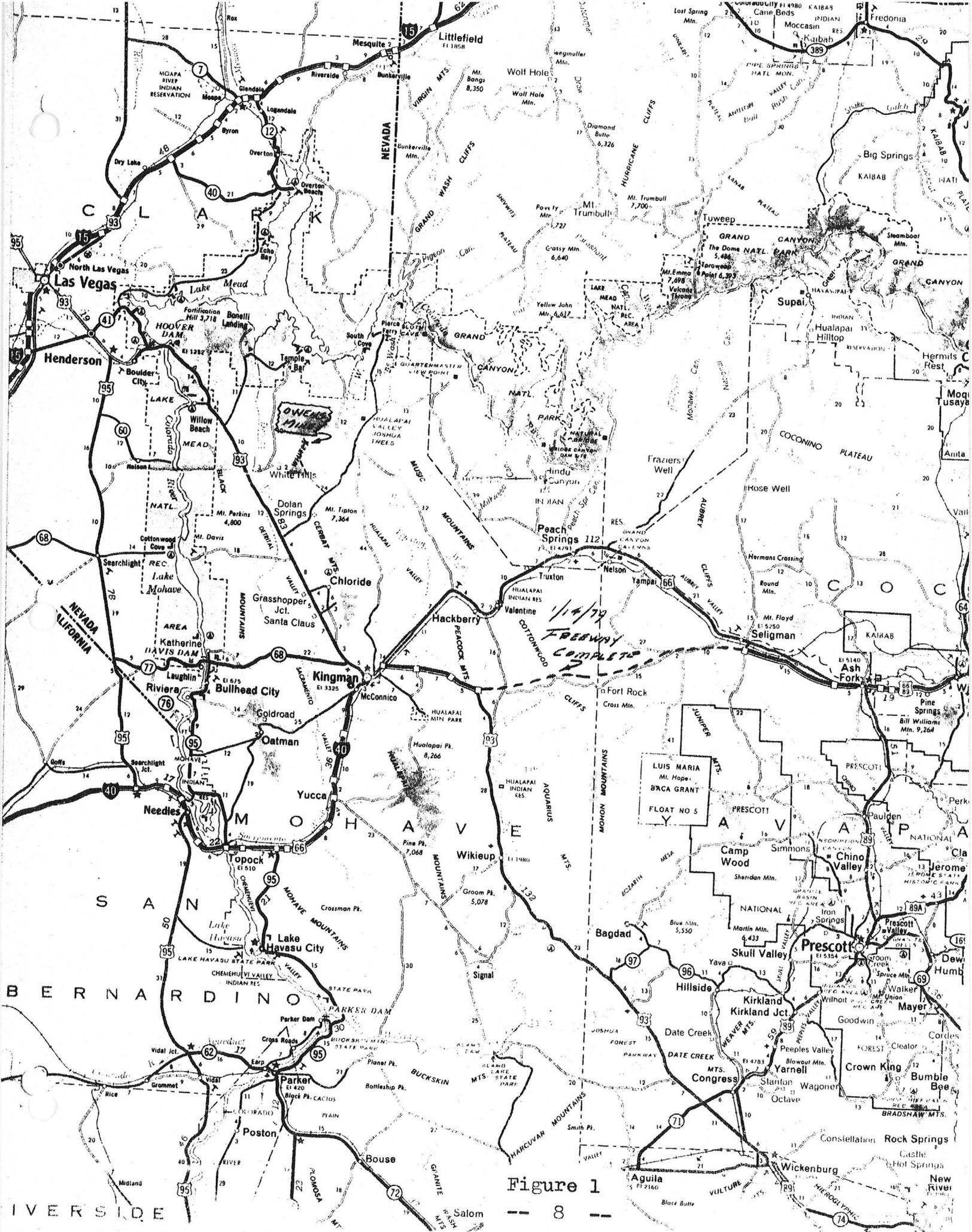


Figure 1

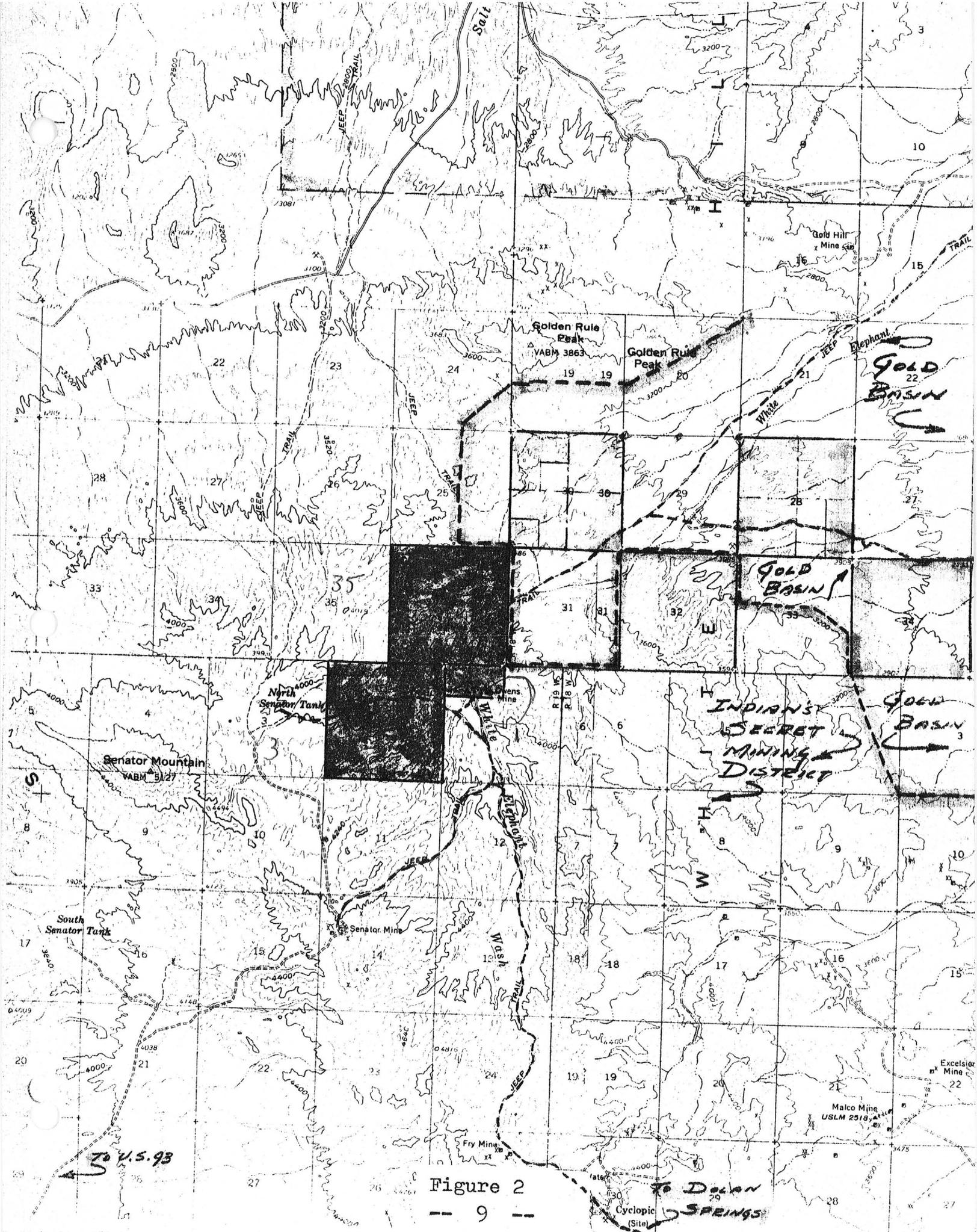


Figure 2

FIGURE 3

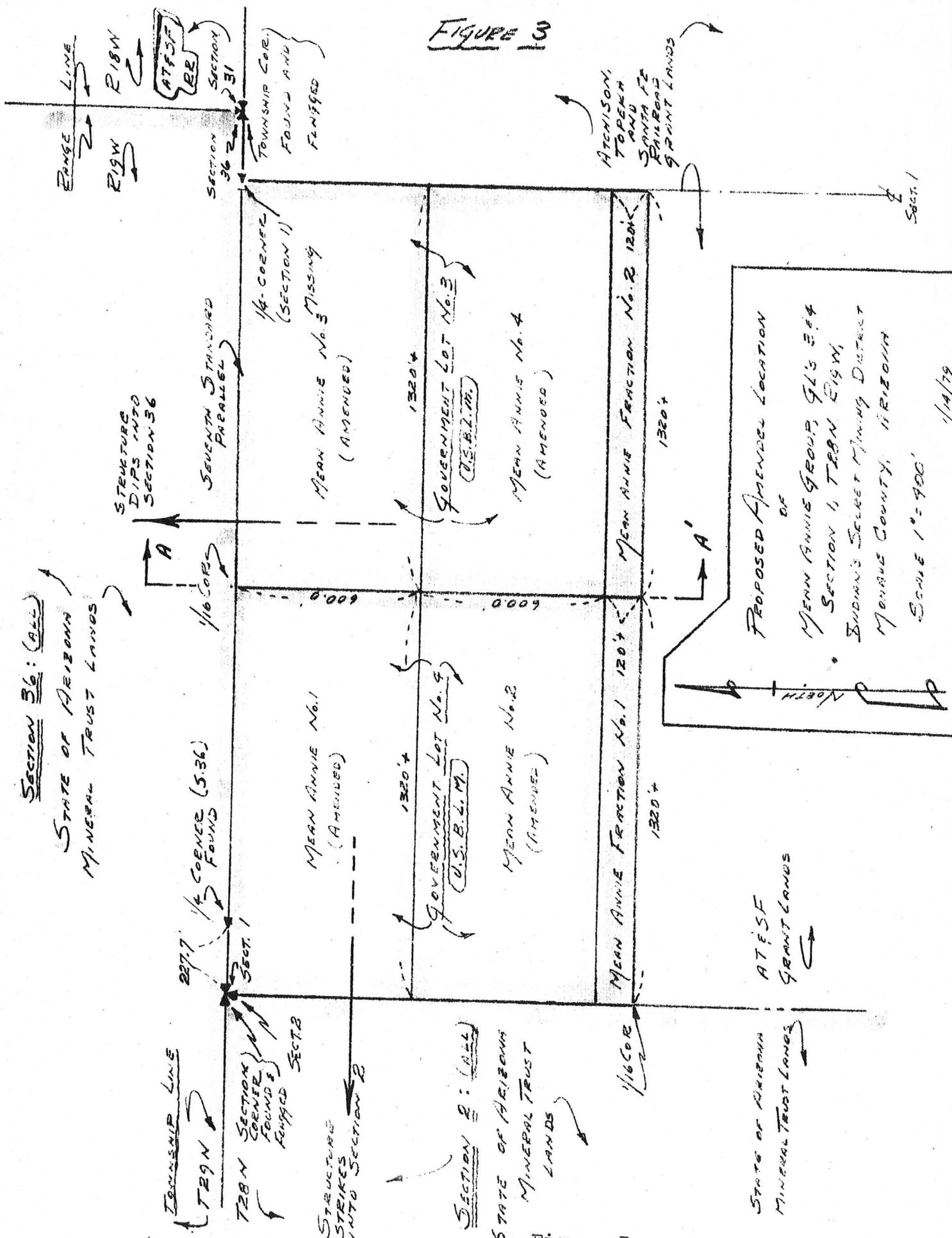
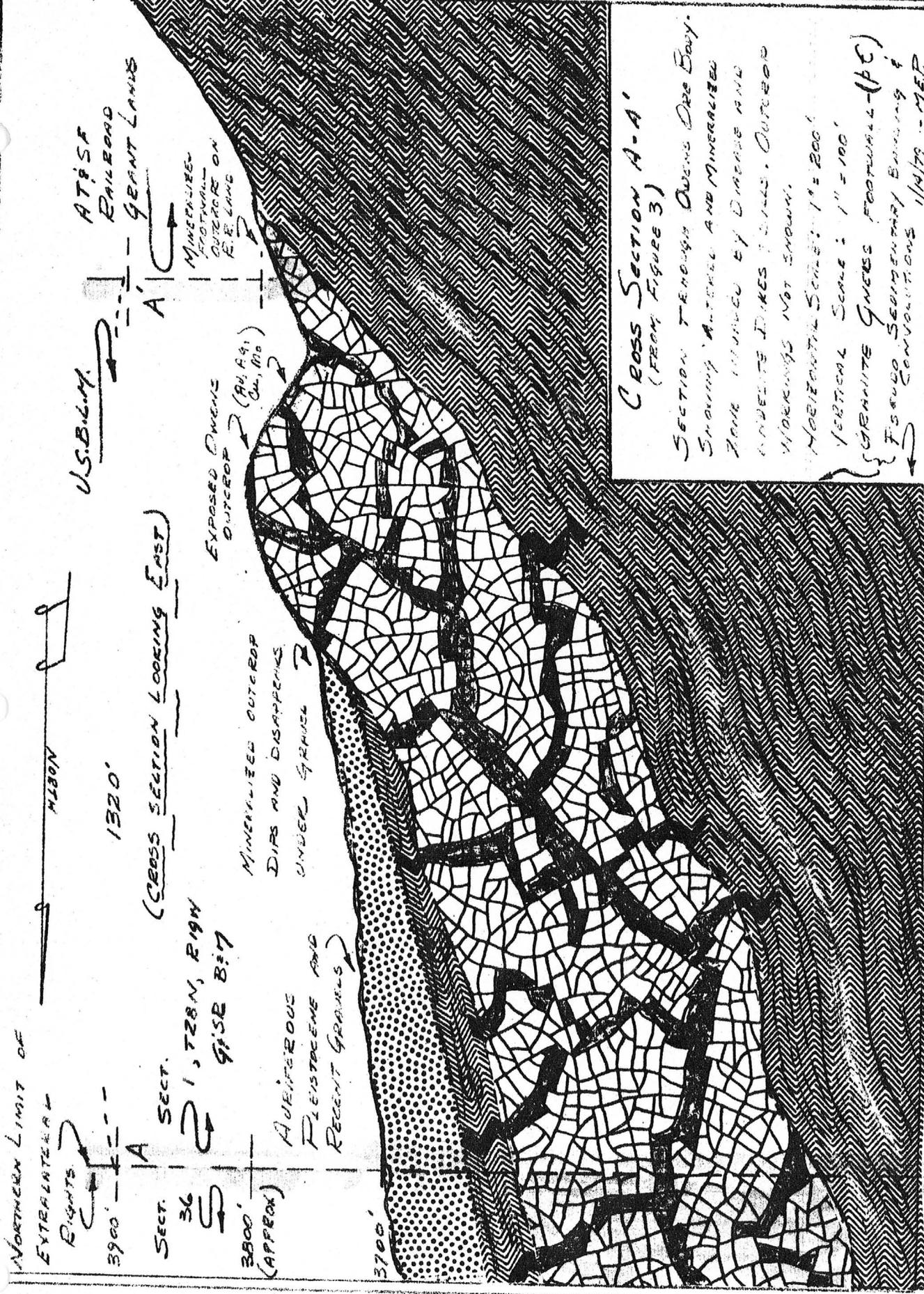


Figure 3

1/14/72



STRUCTURAL NOTE: STRUCTURE DIPS NORTH TOWARD S. 36, T. 28N, R. 19W AND STRIKES WEST INTO S. 2, T. 28N, R. 19W, BOTH OF WHICH ARE STATE MINERAL TRUST LANDS.

Figure 4
-- 11 --

SUPPLEMENT SECTION

Writer's Note: The materials appearing hereinafter have been provided by George McDevitt and his Associates for the full and free use by the writer in the preparation of this report. These, in prior turn, were provided by Mr. Dick Hart of Kingman, Arizona, to McDevitt & Associates. It is to be noted that they are copies of reduced copies, probably of an original scale of 1" = 100'. In the reduction and recopying some detail has been lost, though it is still sufficiently clear that the major details have been identified on the ground by this writer. Not mentioned in the 2-page report under "Geophysics" is that a Self-Potential Survey was run also (in addition to the Magnetometer Survey), and the results of three (3) profiles are plotted on Page 5-S. These indicate the chemical decomposition of sulphide mineralization underlying the surface gravels, and it is believed that this mineralization is chalcopyrite (CuFeS_2). The magnetometer anomaly probably indicates a diabase plug with which the copper mineralization is associated.

The writer did not have access to these early data when his first field work was done, however they are completely concordant with conclusions which were based on field work alone. Had El Paso Natural Gas Company proceeded with their proposed program, it is considered inevitable that they would have drilled the Owens structure long before this. Collecting and presenting the data hereinafter represents a substantial investment of both time and money on the part of El Paso Natural Gas Company, and there can be no gainsaying that McDevitt and Associates are indeed fortunate to be the beneficiaries of these constructive endeavors.

OWENS PROSPECT

Mohave County, Arizona (T28N R19W Sec 1)

The Owens prospect is located approximately 47 miles north-northwest of Kingman in Mohave County, Arizona. The claimed area is within the White Elephant Wash drainage of the White Hills. The elevation of the property averages 3750 feet above sea level with less than 100 feet of relief.

The property consists of 7 claims (Mean Annie Group) in the northwest quarter of Section 1 of Township 28 North, Range 19 West. The claims are held by Mr. K. N. Hart of Kingman.

Development on the property consists of five shafts, one tunnel, and numerous pits and open cuts; the work having been accomplished prior to 1942. The deepest shaft was sunk to a depth of 125 feet on an east-west striking vein that dips 58° north. The tunnel is approximately 90 feet in length.

Records of Arizona Department of Mineral Resources in Phoenix indicate that 31 tons of ore were shipped prior to 1942 and returned a net of \$35.62 per ton on material averaging 10% copper with the balance of the value being in gold. The year of the production is unknown.

GEOLOGY

The country rock of the area is Precambrian granite gneiss which has been intruded by diabase and andesite. Locally the granite gneiss contains a considerable amount of mafic minerals and for mapping purposes the term "gneissic diabase" was used. (See geologic

(2)

map with this report). The other mappable units are unaltered diabase (shown in blue) and andesite (shown in green) several pits exposed massive quartz fracture fillings. The relative ages of the andesite and diabase are uncertain.

Faults, fractures and foliation are plotted on the geologic map included with this report. The predominant directions of faulting are northwest and east-west. The predominant directions of fracturing are northwest and northeast. The mineralization observed consisted of hematite, chrysocolla, malachite and azurite with minor chalcopryrite observed at one pit. The mineralization, although fracture controlled, does not appear to follow any preferred direction of fracturing.

GEOCHEMISTRY

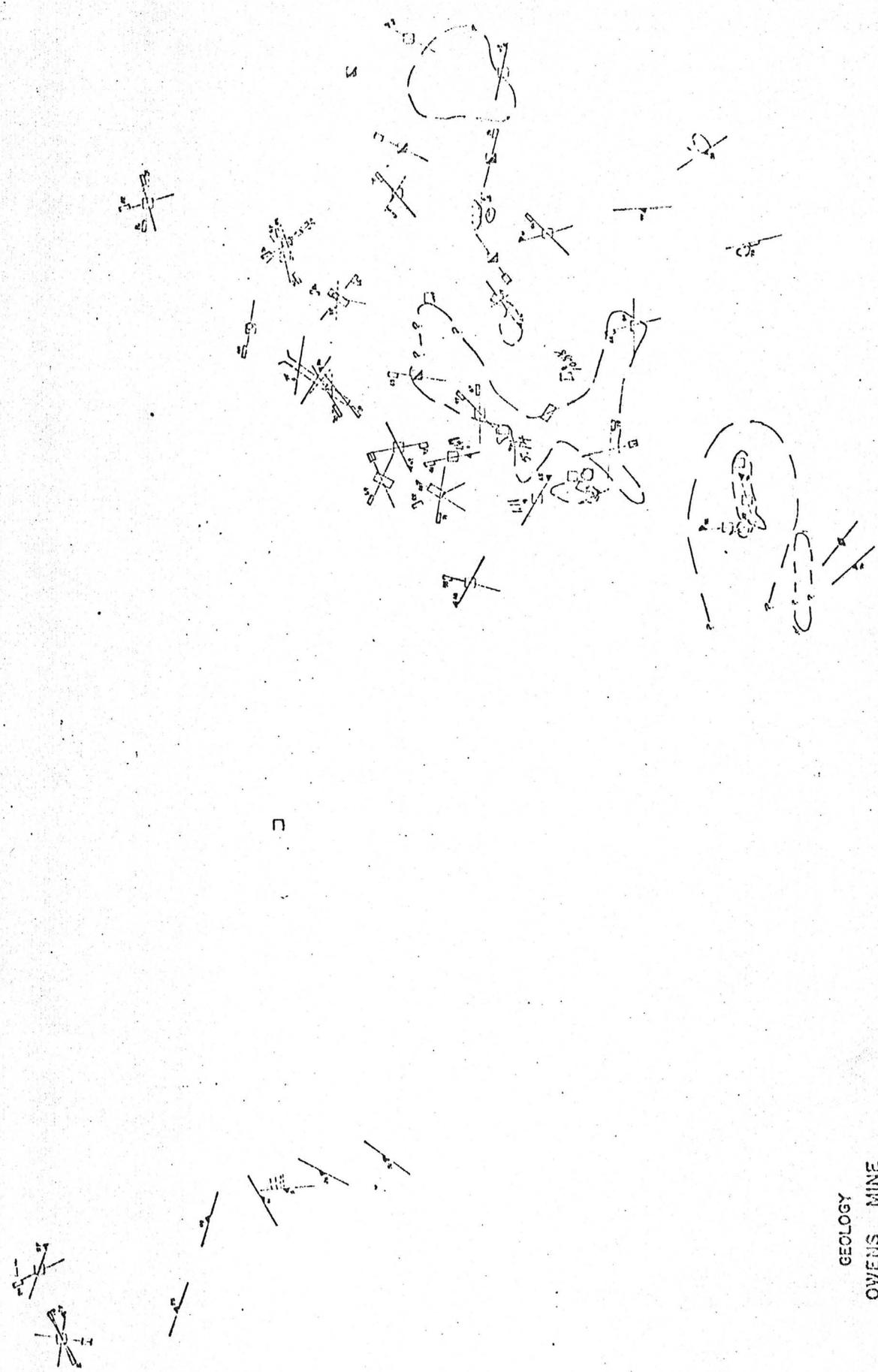
Sixty soil and 29 rock chip samples were collected. The three geochemical overlay maps show sample locations and values in parts per million for copper, silver and gold. The most interesting result of the soil sampling survey is the development of a N30W trending anomaly in copper and gold.

GEOPHYSICS

Two fluxgate magnetometer traverses were run across the property using soil sample lines for control. A double-peaked anomaly with values of 1177 and 862 gammas was recorded at the northeast end of traverse no. 2.

RECOMMENDATIONS

The geochemical anomaly is somewhat encouraging. Additional sampling across the western half of the copper-gold geochemical anomaly is advised. A northeast extension of the easternmost sample line to give soil sample coverage of the magnetic anomaly is also recommended.

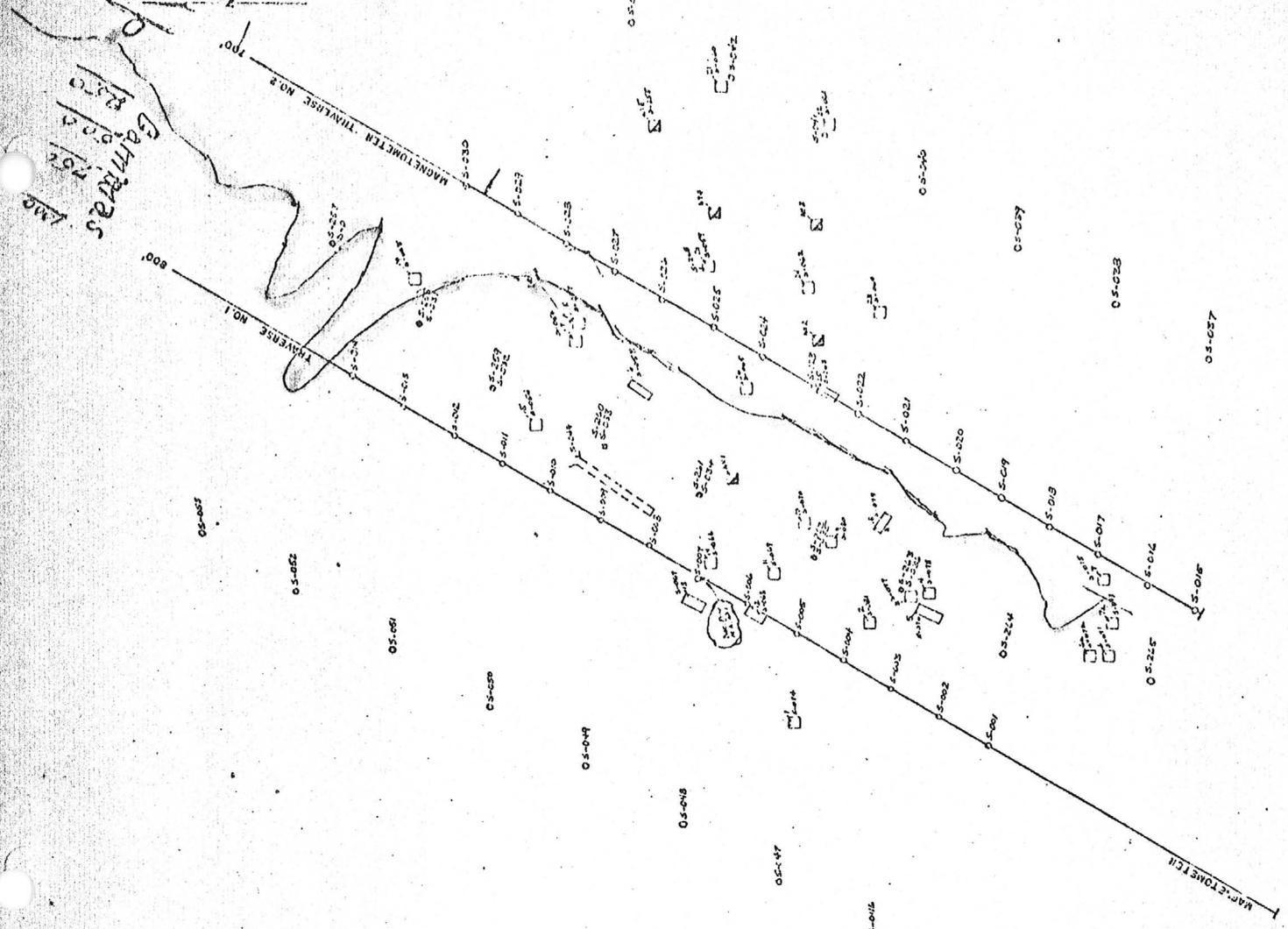


- FAULT
- FOLDS
- FOLDS
- FOLDS
- GREEN - MESOZOIC
- YELLOW - BULL CREEK
- BLUE - QUATERNARY DEPOSITS

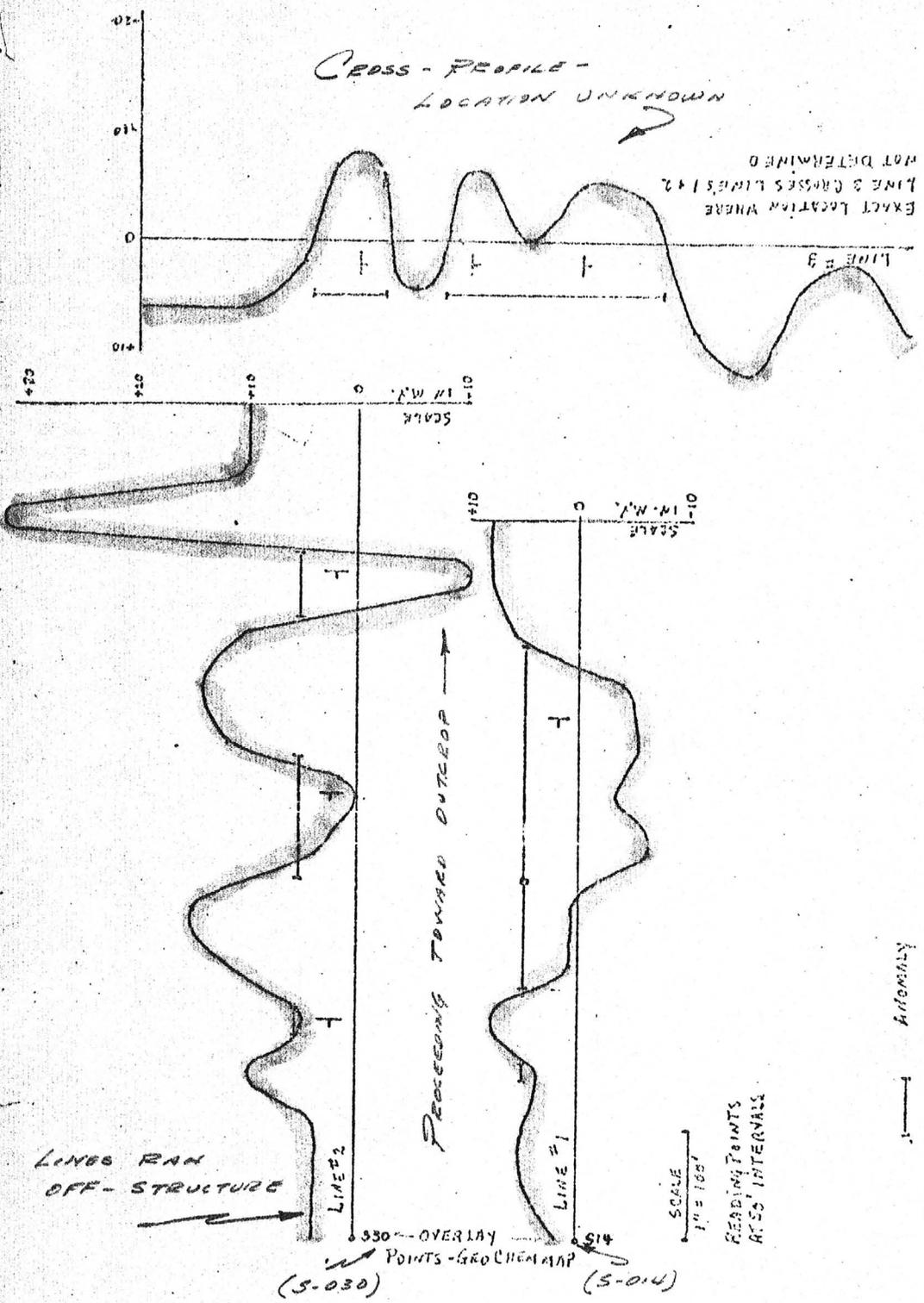
GEOLOGY
 OWENS MINE
 MOHAVE COUNTY, ARIZONA
 T28N R19W SEC. 1

Scale: 1/4" = 100'

SCALE: 1"=50'



MAGNETOMETER SURVEY
 OWENS MINE
 MORAVE COUNTY, ARIZONA
 T28N R19W SEC. 1



• STAKE DRIVEN IN GROUND.
 • SCALE FOR LINE # 3

LINES RUN OFF-STRUCTURE

PROCEEDING TOWARD OUTLETP

ANOMALY
 PROBABLE ANOMALY
 VERY WEAK POSSIBLE ANOMALY OR VERY NARROW VEINS
 APPARENT DIP OF STRUCTURE DETERMINED BY SHAPE OF CURVE

MEP NOTE: THIS SELF-POTENTIAL SURVEY IS NOT MENTIONED IN THE TEXT OF THE REPORT. IT BEGINS (LEFT TO RIGHT) AT THE NE END OF THE MAGNETOMETER SURVEY LINES AT STATIONS Nos. 5-014 AND 5-030 (ABOVE-MARKED 5-14 AND 5-30)

BASE PLOT LINE 1 & 2

(Self-Potential Survey)
 RECON S.P. SURVEY
 DICK HART COPPER CLAIMS
 BY D.H. FONNER MARCH-1975
 SCALE: 1"=150'

Writer's Note: (1) Sheet No. 1 of the Assay Data from which the anomalies in the following pages are plotted is missing, and an effort is ongoing at the time of this writing to replace it.

(2) The following table of conversions and equivalents is provided in order to interpret more easily the relationship between the averdupois, troy, and decimal assay presentations:

<u>Percent:</u>	<u>Parts per Million:</u>	<u>Short Ton:</u>	<u>Troy Ounces:</u>
100.00	1,000,000.	2000-lbs.	29,166.67
10.00	100,000.	200 "	2,916.67
1.00	10,000.	20 " **	291.67
0.10	1,000.	2 "	29.167
0.01	100.	0.2 "	2.917
0.001	10.	0.02 "	0.292
0.0001	1.	0.002 "	0.029

** : 1-percent is referred to as a "Unit" and 20-pounds is used in commerce as a "Short Ton Unit" and abbreviated "STU". A "Long Ton Unit" (LTU) is 22.4-pounds.

- (2) 1-part per million is approximately 0.03-troy ounces per ton which, at a price of \$200.00 per ounce for gold, would be approximately \$6.00. Conversely,
- (3) 1-troy ounce is equal to 34.2-parts per million.
- (4) It is noted in line 1 of the table above that a short ton (of 32,000-averdupois ounces) is equivalent to 29,166.67-troy ounces. By dividing, 1-troy ounce is equivalent to 1.097-averdupois ounces. By multiplying, 1-pound averdupois is equivalent to 14.585+ troy ounces.

Sample No.	PPM Copper	BG 0.2 PPM Molybdenum	BG 0.1 PPM Silver	BG 0.02 PPM Gold
S-036	210	<1	1.6	1.09
S-037	50	<1	1.2	0.58
S-038	29	1	1.3	0.52
S-039	26	<1	1.6	0.50
S-040	31	<1	1.3	0.35
S-041	198	<1	1.7	0.45
S-042	144	<1	1.6	0.45
S-043	98	<1	1.4	0.50
S-044	+1000	<1	1.9	0.87
S-045	145	<1	1.8	0.47
S-046	43	1	1.3	0.47
S-047	46	<1	1.7	0.47
S-048	56	<1	<1.0	0.50
S-049	+1000	6	1.2	7.70
S-050	110	<1	1.4	0.33
S-051	65	1	1.3	0.35
S-052	46	7	1.6	0.35
S-053	44	3	1.4	0.35
S-054	+1000	3	2.0	0.62
S-055	+1000	1	1.2	0.75
S-056	259	4	1.6	0.45
S-057	512	7	1.3	0.77
S-058	886	7	1.4	1.11
S-059	+1000	4	1.0	0.53
S-060	+1000	1	1.5	1.76
S-061	230	4	1.6	0.47
S-062	74	6	1.2	1.26
S-063	+1000	4	1.9	3.29
S-064	+1000	7	<1.0	2.65
S-065	+1000	7	1.7	0.45
S-066	+1000	6	1.3	0.45
S-067	70	4	1.1	0.10
S-068	+1000	3	<1.0	0.16
S-069	+1000	4	1.6	0.53
S-070	680	<1	2.0	<0.10
S-071	54	7	<1.0	<0.10
S-072	17	4	1.3	<0.10
S-073	55	10	1.2	0.15
S-074	+1000	4	1.4	0.18
S-075	176	4	1.1	0.19
S-076	+1000	1	1.9	0.90
S-077	+1000	4	1.8	0.79
S-078	36	4	1.3	<0.10
S-079	+1000	4	2.6	10.88
S-080	132	1	1.8	0.35
S-081	+1000	1	2.0	5.14
S-082	+1000	7	1.5	0.45
S-083	45	1	1.0	0.10
S-084	60	4	1.0	0.10

T
Rock chip

Rock chip

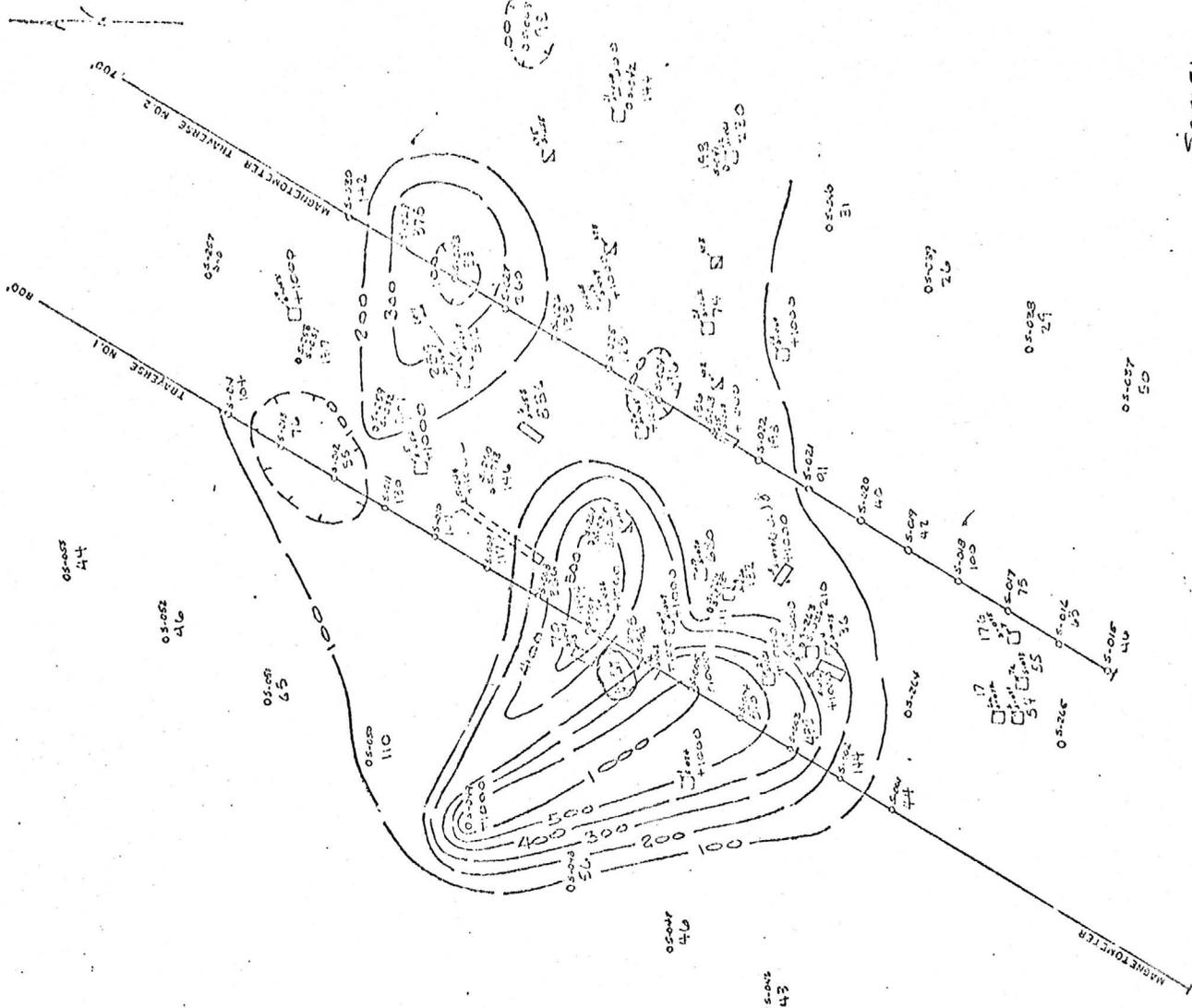
Sample No.	PPM Copper	PPM Molybdenum	PPM Silver	PPM Gold
S-085	36	1	1.4	<0.10
S-086	35	4	<1.0	0.18
S-087	41	1	1.0	0.10
S-088	30	<1	<1.0	<0.10
S-089	37	<1	1.1	0.10

GEOCHEMICAL ASSAY

Sample NO.	% Copper
S-005	0.52
S-044	0.23
S-049	0.15
S-054	0.30
S-055	0.11
S-059	0.50
S-060	0.78
S-063	0.43
S-064	0.67
S-065	0.24
S-066	0.37
S-068	0.14
S-069	0.79
S-074	0.17
S-076	0.13
S-077	0.69
S-079	0.59
S-081	0.93
S-082	0.38

19.6000

Mary McArthur
 Signed

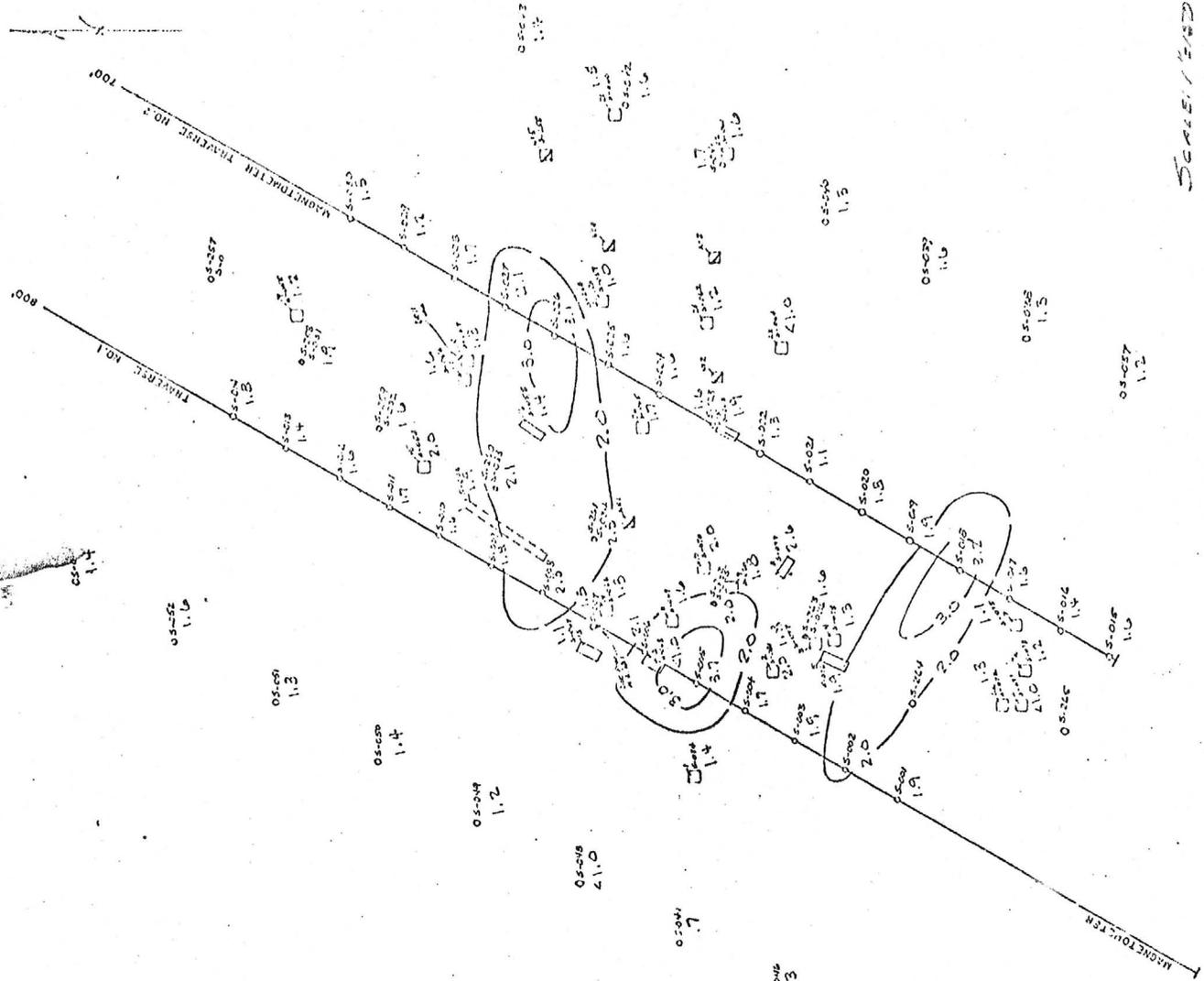


Scale:
 1" = 150' 00"
 1" = 180' 00"

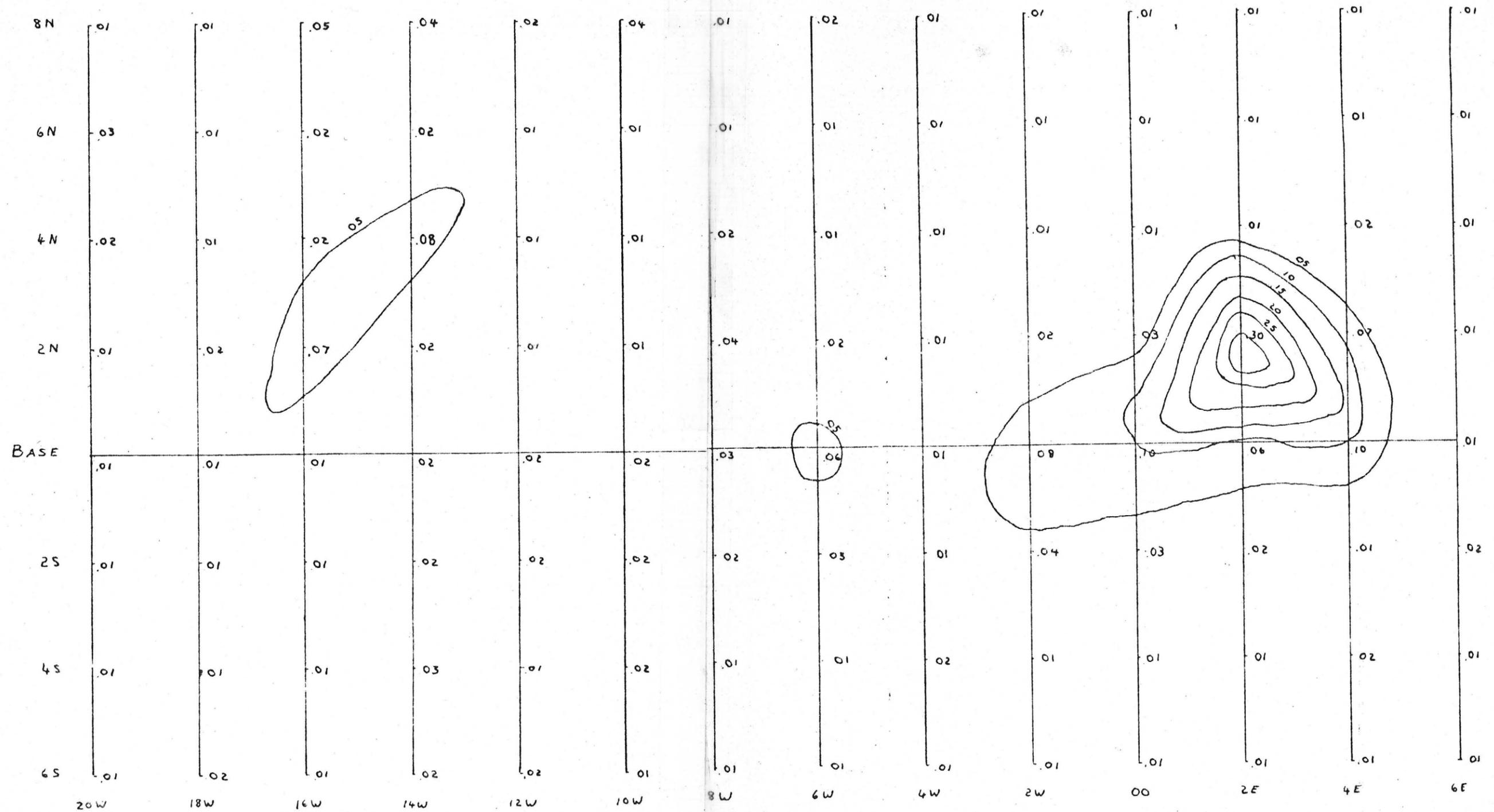
OWENS MINE
 MOHAVE COUNTY, ARIZONA
 T23N R19W SEC. 1

C. W. P. M.

SCALE 1/2" = 100'



OWENS MINE
MOHAVE COUNTY, ARIZONA
T 23 N R 19 W SEC. 1



VALUES IN PPM
 CI = .05 ppm

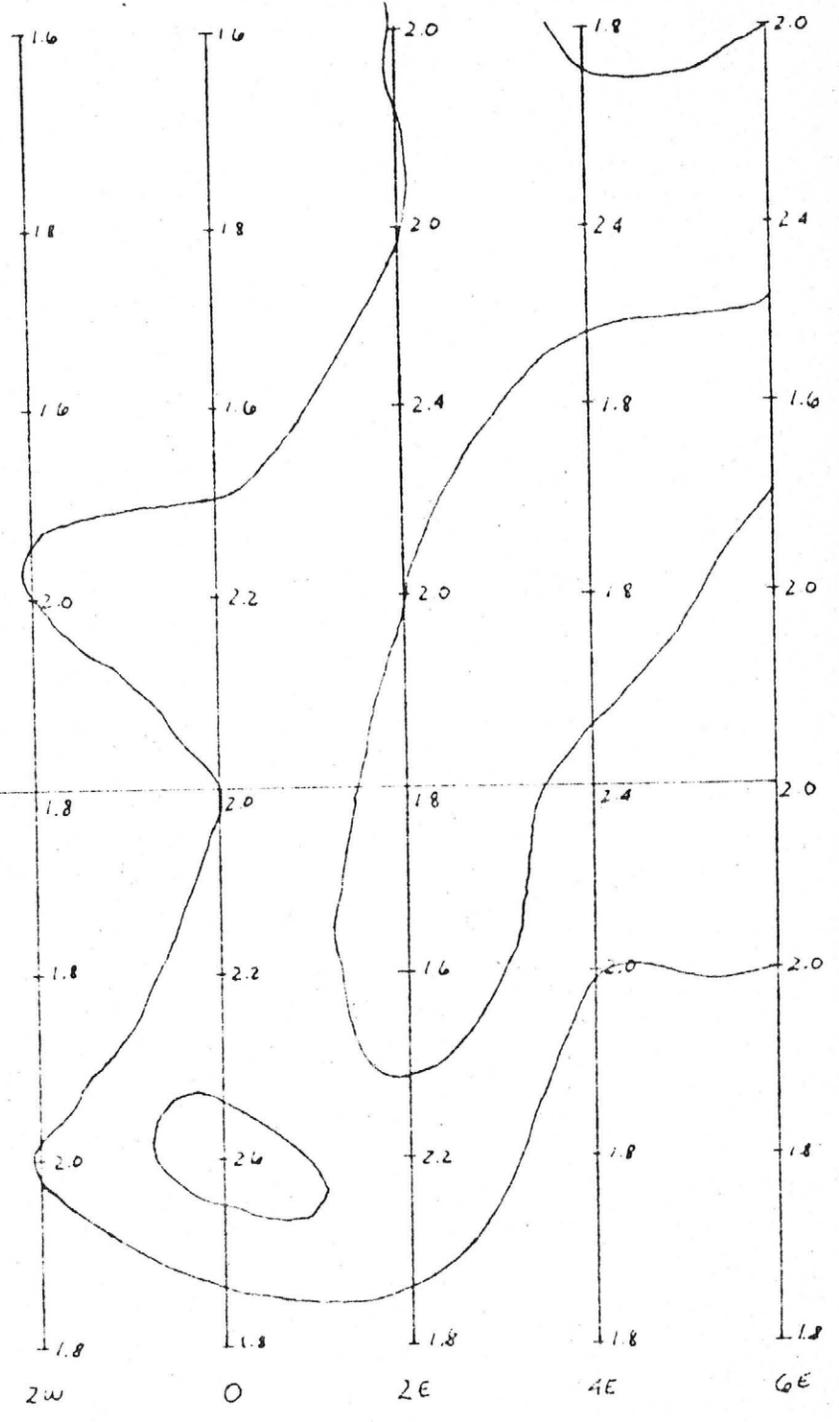
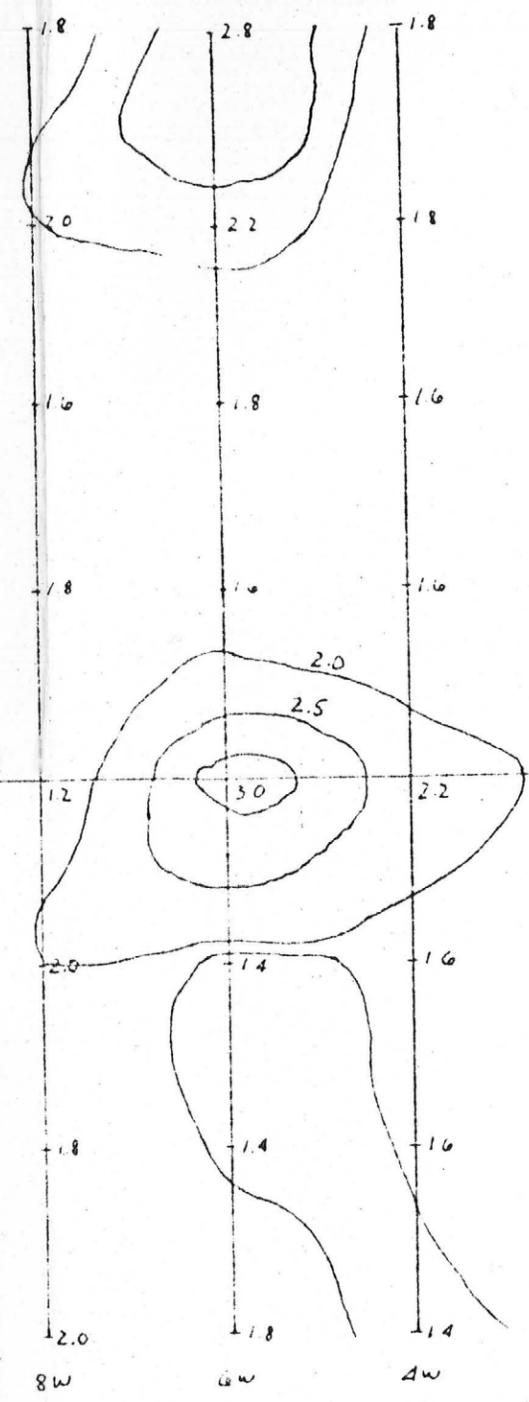
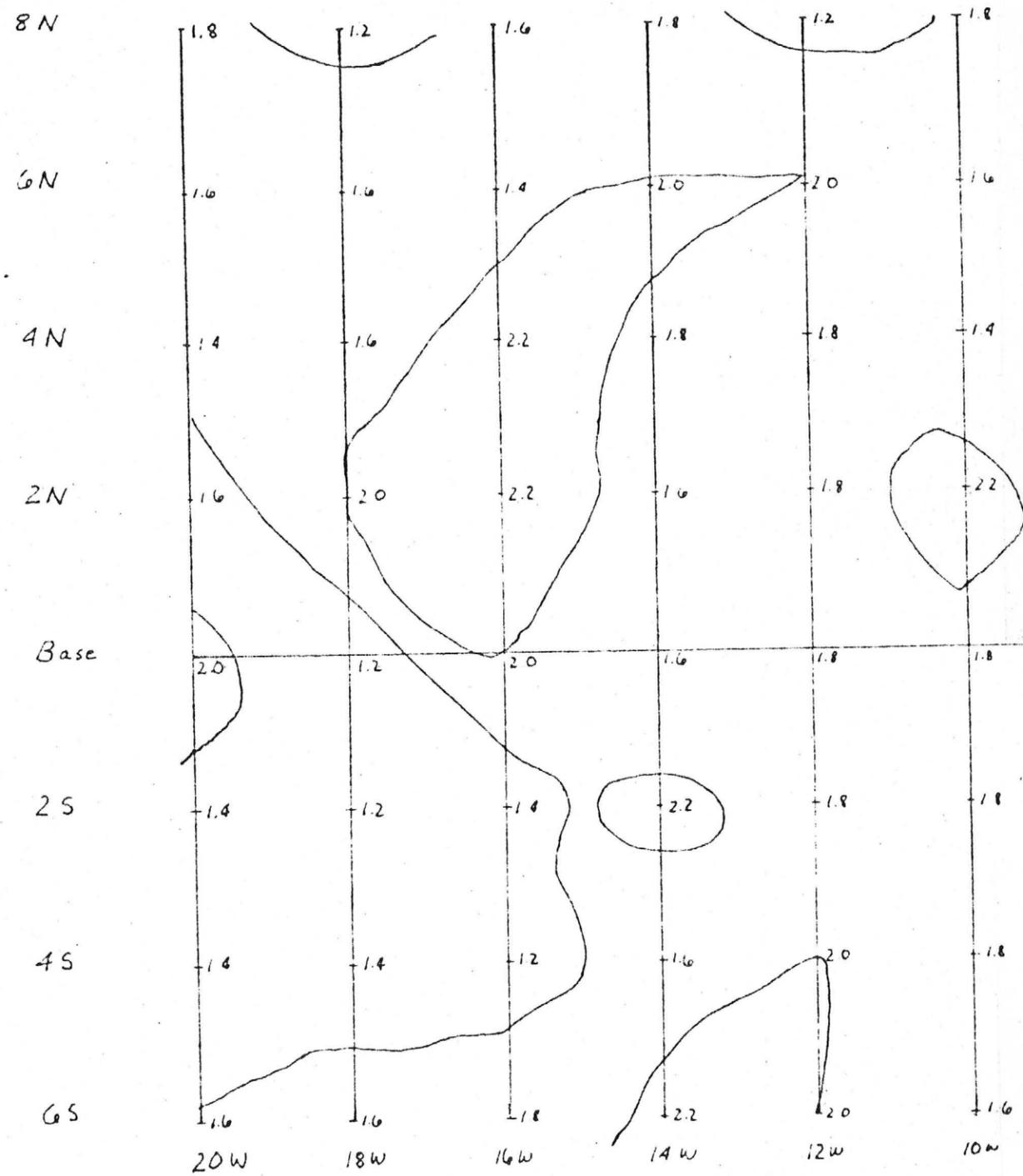
Scale: 1" = 100'

OWENS MINE

SCALE 1" = 200'	APPROVED BY	DRAWN BY HJH
DATE 2-27-1976		

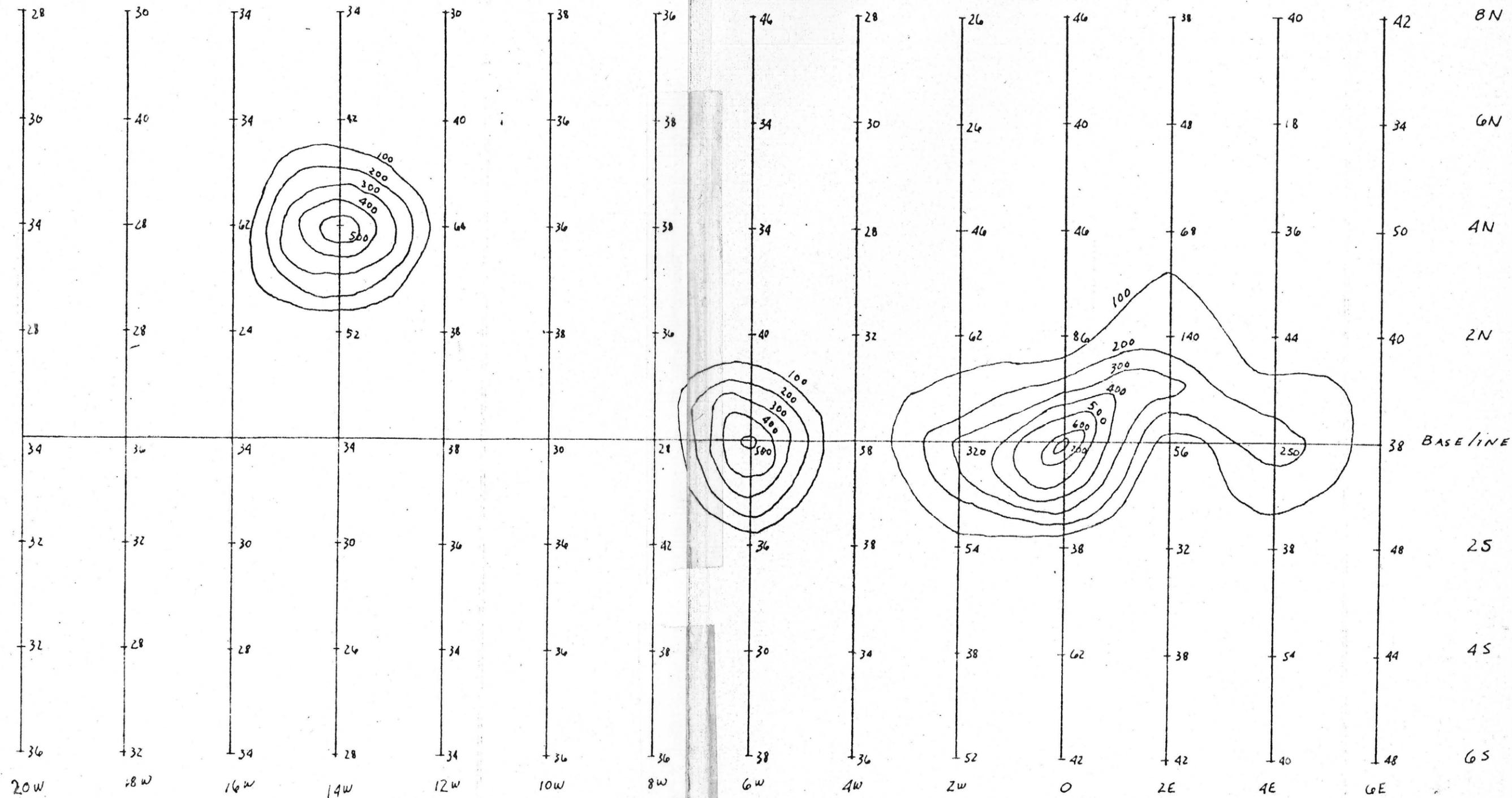
Soil Geochemistry - Gold

DRAWING NUMBER



Values in PPM
 Page 13-S C.I. = 0.5 ppm

OWENS MINE		
SCALE 1" = 200'	APPROVED BY	DRAWN BY
DATE 2/28/76		
SOIL GEOCHEMISTRY - SILVER		
		DRAWING NO.

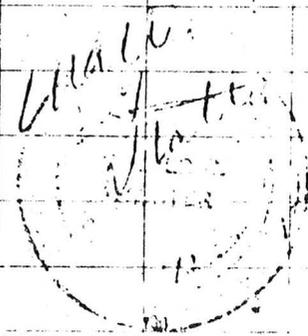


Scale: 1" = 100'
 Page 14-S
 Values in PPM
 CI = 100 PPM

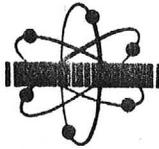
OWENS MINE		
SCALE: 1" = 100'	APPROVED BY	DRAWN BY MB
DATE 2/28/75		
SOIL GEOCHEMISTRY - COPPER		
		DRAWING NUMBER

Dec. 22, 1975

of no.	SAMPLE DESCRIPTION	Gold oz/ton	Silver oz/ton	Lead %	Zinc %	Copper %
12-17-1	#101	.006	0.42			0.04
12-17-2	#102	.004	0.44			0.42
12-17-3	#103	.004	0.40			0.47
12-17-4	#104	.004	0.44			0.13
12-17-5	#105	.006	0.50			0.08
12-17-6	#106	.080	0.63			1.05
12-17-7	#107	.068	0.13			0.69
12-17-8	#108	.004	0.20			0.06
12-17-9	#109	.244	0.10			1.47
12-17-10	#110	.006	0.22			0.05
12-17-11	#111	.004	0.24			0.06
12-17-12	#112	.064	0.24			0.46
12-17-13	#113	.004	Tr			0.10
12-17-14	#114	Tr	0.54			0.05
12-17-15	#115	.004	0.50			0.06
12-17-16	#116	Tr	0.41			0.11
12-17-17	#117	.006	0.20			0.05
12-17-18	#118	.038	0.17			0.07
12-17-19	#119	.020	0.28			0.06
12-17-20	#120	.088	0.48			0.76
12-17-21	#121	Tr	0.14			0.05
12-17-22	#122	Tr	0.30			0.16
12-17-23	#123	.004	0.50			0.23
12-17-24	#124	.010	0.47			0.28



REED ENGINEERING
2166 COLLEGE AVENUE
COSTA MESA, CALIF. 92627



CERTIFICATE OF ANALYSIS
QUALITATIVE SPECTROGRAPHIC

+
McCorkle Mining
Attn: George Bell
111 S. Orange St
+ Orange, CA 92666

+ Date: OCT 19 1978
Sample: Drift Dump, Muck Pile
Lab.No: 09 Mean Annie Group
+ Tests recommended:

	Percent	Lbs. per ton
Aluminum	2.1	42
Antimony*		
Arsenic*		
Barium		
Beryllium		
Bismuth		
Boron*		
Cadmium		
Calcium	1.6	32
Cesium		
Chromium		
Cobalt		
Columbium		
Copper		
Gallium		
Germanium**		
Gold**		
Hafnium		
Indium		
Iridium**		
Iron	.9	18
Lead		
Lithium	tr	
Magnesium	.02	.4
Manganese		
Mercury*		
Molybdenum		
Nickel		
Osmium**		
Palladium		
Phosphorus*	detected	
Platinum**		
Potassium	.3	6
Rhenium**		
Rhodium**		
Rubidium**		
Ruthenium**		
Scandium**		
Silver		
Sodium	.9	18

	Percent	Lbs. per ton
Strontium		
Tantalum		
Tellurium*		
Thallium		
Thorium		
Tin		
Titanium		
Tungsten		
Uranium(e)*		
Vanadium		
Zinc		
Zirconium		

RARE EARTH ELEMENTS

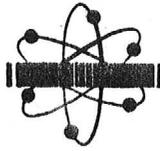
	Percent
Cerium	
Dysprosium	
Erbium	
Europium	
Gadolinium	
Holmium	
Lanthanum	
Neodymium	
Lutecium	
Praseodymium	
Samarium	
Terbium	
Thulium	
Ytterbium	
Yttrium	

OTHER ELEMENTS

Carbon, Silicon, nondetectable
volatiles, gases, total 94.1 Percent

*special test included.

**small amounts not detected.



CERTIFICATE OF ANALYSIS
QUALITATIVE SPECTROGRAPHIC

+

McCorkle Mining

+

Date: OCT 19 1978

Sample: PT. C

Mean Annie Group

Lab.No: 11

+

+

Tests recommended:

	Percent	Lbs. per ton
Aluminum	.9	18
Antimony*		
Arsenic*		
Barium	tr	
Beryllium		
Bismuth		
Boron*		
Cadmium		
Calcium	2.8	56
Cesium		
Chromium	.1	2
Cobalt		
Columbium		
Copper		
Gallium		
Germanium**		
Gold**		
Hafnium		
Indium		
Iridium**		
Iron	3.5	70
Lead		
Lithium	tr	
Magnesium	4.1	82
Manganese		
Mercury*		
Molybdenum		
Nickel		
Osmium**		
Palladium		
Phosphorus*	detected	
Platinum**		
Potassium	.2	4
Rhenium**		
Rhodium**		
Rubidium**		
Ruthenium**		
Scandium**		
Silver		
Sodium	.7	14

	Percent	Lbs. per ton
Strontium	tr	
Tantalum		
Tellurium*		
Thallium		
Thorium		
Tin		
Titanium	.03	.6
Tungsten		
Uranium(e)*		
Vanadium		
Zinc		
Zirconium		

RARE EARTH ELEMENTS

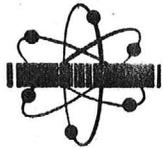
	Percent
Cerium	
Dysprosium	
Erbium	
Europium	
Gadolinium	
Holmium	
Lanthanum	
Neodymium	
Lutecium	
Praseodymium	
Samarium	
Terbium	
Thulium	
Ytterbium	
Yttrium	

OTHER ELEMENTS

Carbon, Silicon, nondetectable
volatiles, gases, total 87.6 Percent

*special test included.

**small amounts not detected.



CERTIFICATE OF ANALYSIS
QUALITATIVE SPECTROGRAPHIC

+ McCorkle Mining

+ Date: OCT 19 1978
+ Sample: East of PT.C
+ Lab.No: 10 Mean Annie Group
+ Tests recommended:

	Percent	Lbs. per ton
Aluminum	.9	18
Antimony*		
Arsenic*		
Barium		
Beryllium		
Bismuth		
Boron*		
Cadmium		
Calcium	2.3	46
Cesium		
Chromium	.02	.4
Cobalt		
Columbium		
Copper		
Gallium		
Germanium**		
Gold**		
Hafnium		
Indium		
Iridium**		
Iron	7.9	158
Lead		
Lithium	tr	
Magnesium	.9	18
Manganese		
Mercury*		
Molybdenum		
Nickel		
Osmium**		
Palladium		
Phosphorus*	detected	
Platinum**		
Potassium	.5	10
Rhenium**		
Rhodium**		
Rubidium**		
Ruthenium**		
Scandium**		
Silver		
Sodium	1.1	22

	Percent	Lbs. per ton
Strontium		
Tantalum		
Tellurium*		
Thallium		
Thorium		
Tin		
Titanium	.1	2
Tungsten		
Uranium(e)*		
Vanadium		
Zinc		
Zirconium		

RARE EARTH ELEMENTS

	Percent
Cerium	
Dysprosium	
Erbium	
Europium	
Gadolinium	
Holmium	
Lanthanum	
Neodymium	
Lutecium	
Praseodymium	
Samarium	
Terbium	
Thulium	
Ytterbium	
Yttrium	

OTHER ELEMENTS

Carbon, Silicon, nondetectable
volatiles, gases, total 86.2 Percent

*special test included.
**small amounts not detected.

REED ENGINEERING
2166 COLLEGE AVENUE
COSTA MESA, CALIF. 92627

ANALYSIS
CERTIFICATE

McCorkle Mining

Date: OCT 19 1978

Sample No.: PT.C Mean Annie Group

	Oz/Ton	Oz/Cu Yd	Value/Ton	Value/Cu Yd
Gold	Less than 0.005			

Silver Less than .05

Platinum

CURRENT MARKET PRICES

Gold \$ 240 /Oz
Silver \$ 6 /Oz
Platinum \$ 350 /Oz
Charges/fees paid for
above test: \$ 5

NOTES: This report is based
on a submitted sample only.

We have not examined
the source of that sample, or
the property to which it may
relate. No warranty is made.

P. Reed
Assayer

REED ENGINEERING
2166 COLLEGE AVENUE
COSTA MESA, CALIF. 92627

ANALYSIS
CERTIFICATE

McCorkle Mining

Date: OCT 19 1978 Mean Annie Group

Sample No.: Drift Dump, Muck Pile

	Oz/Ton	Oz/Cu Yd	Value/Ton	Value/Cu Yd
Gold	Less than 0.005			

Silver Less than .05

Platinum

CURRENT MARKET PRICES

Gold \$ 240 /Oz
Silver \$ 6 /Oz
Platinum \$ 350 /Oz
Charges/fees paid for
above test: \$ 5

NOTES: This report is based
on a submitted sample only.

We have not examined
the source of that sample, or
the property to which it may
relate. No warranty is made.

P. Reed
Assayer

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Sample No.: East of PT.C Mean Annie Group

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Assayer

BUREAU OF LAND MANAGEMENT

Evidence of Assessment Work or Notice
of Intent to Hold Requirements

Mining Claims Located on or Before October 21, 1976

If Mining Claims Were Recorded in the Proper BLM Office During One of the Following Calendar Years	Then the First Filing of Evidence of Assessment Work or Notice of Intent to Hold Must be Filed on or Before These Dates	Subsequent Filing of Either Evidence of Assessment Work or Notice to Hold Must be Filed on or Before These Dates
1976	On or before December 30, 1977	On or before December 30, 1978, and on or before December 30 of each subsequent year thereafter
1977	On or before December 30, 1978	On or before December 30, 1979, and on or before December 30 of each subsequent year thereafter
1978	On or before October 22, 1979	On or before December 30, 1980, and on or before December 30 of each subsequent year thereafter
January 1 through October 22, 1979	On or before October 22, 1979	On or before December 30, 1980, and on or before December 30 of each subsequent year thereafter

Mining Claim Located After October 21, 1976

If Mining Claims Were Located During One of the Following Calendar Years	Then the First Filing of Evidence of Assessment Work or Notice of Intent to Hold Must be Filed on or Before These Dates	Subsequent Filing of Either Evidence of Assessment Work or Notice to Hold Must be Filed on or Before These Dates
1976	On or before December 30, 1977	On or before December 30, 1978, and on or before December 30 of each subsequent year thereafter
1977	On or before December 30, 1978	On or before December 30, 1979, and on or before December 30 of each subsequent year thereafter
1978	On or before December 30, 1979	On or before December 30, 1980, and on or before December 30 of each subsequent year thereafter

Evidence of Assessment Work or Notice of Intent to Hold Claim should be mailed to:

Bureau of Land Management
2400 Valley Bank Center
Phoenix, Arizona 85073
Telephone: (602) 261-3706

No fee required.

Title 43—Public Lands: Interior
CHAPTER II—BUREAU OF LAND MAN-
AGEMENT, DEPARTMENT OF THE IN-
TERIOR

[Circular No. 2419]

PART 3830—LOCATION OF MINING
CLAIMS

Recordation of Mining Claims and Filing
Evidence of Annual Assessment Work
or Notice of Intention to Hold Mining
Claims

Part 3830 is amended by adding Sub-
part 3833 to read:

**Subpart 3833—Recordation of Mining Claims and
Filing Proof of Annual Assessment Work or
Notice of Intention To Hold Mining Claims**

- Sec.
- 3833.0-1 Purpose.
 - 3833.0-2 Objectives.
 - 3833.0-3 Authority.
 - 3833.0-5 Definitions.
 - 3833.1 Recordation of mining claims.
 - 3833.1-1 Manner of recordation—National
Park System.
 - 3833.1-2 Manner of recordation—other Fed-
eral lands.
 - 3833.1-3 When recordation not required.
 - 3833.2 Evidence of assessment work/no-
tice of intention to hold claim.
 - 3833.2-1 When filing required.
 - 3833.2-2 Form—evidence of assessment
work.
 - 3833.2-3 Form—notice of intention to hold
claim.
 - 3833.2-4 When evidence or notice not re-
quired.
 - 3833.3 Notice of transfer of interest.
 - 3833.4 Failure to file.
 - 3833.5 Effect of recording and filing.

§ 3833.0-1 Purpose.

One purpose of these regulations is to establish procedures for the recordation in the proper BLM office of unpatented mining claims, mill sites, or tunnel sites on Federal lands, and for the filing in the same office of evidence of performance of annual assessment work or of a notice of intention to hold an unpatented mining claim. Another purpose is to notify the proper BLM office of the transfer of an interest in unpatented mining claims, mill sites or tunnel sites.

§ 3833.0-2 Objectives.

An objective of these regulations is to determine the number and location of unpatented mining claims, mill sites, or tunnel sites located on Federal lands to

assist in the management of those lands and the mineral resources therein. Other objectives are to remove the cloud on the title to these lands because they are subject to mining claims that may have been abandoned and to keep the BLM abreast of transfers of interest in unpatented mining claims, mill sites or tunnel sites. These regulations are not intended to supersede or replace existing recording requirements under State law, except when specifically changed by the provisions of the Federal Land Policy and Management Act of 1976 (43 U.S.C. 1701), and are not intended to make the BLM office the official recording office for all ancillary documents (wills, liens, judgments, etc.) involving an unpatented mining claim, mill site or tunnel site.

§ 3833.0-3 Authority.

(a) Subsections (a) and (b) of section 314 of the Act require the recordation of unpatented mining claims and the filing of information concerning annual assessment work performed or a notice of intention to hold such a claim in the proper BLM office within specified time periods. Subsection (c) sets forth the consequences of the failure to file such information or documents within the time limits prescribed.

(b) Section 8 of the Act of September 28, 1976 (16 U.S.C. 1901-1912), requires that all unpatented mining claims within the boundaries of the National Park System shall be recorded with the Secretary within one year after the date of the Act and provides penalties for failure to record.

(c) Section 2319 of the Revised Statutes (30 U.S.C. 22) provides that the exploration, location, and purchase of valuable mineral deposits shall be "under regulations prescribed by law," and sec-

tion 2478 of the Revised Statutes, as amended (43 U.S.C. 1201), provides that those regulations will be issued by the Secretary.

(d) The Secretary has general responsibility and authority concerning public lands under 43 U.S.C. 2 and section 310 of the Act.

§ 3833.0-5 Definitions.

As used in this Subpart:

(a) "The Act" means the Federal Land Policy and Management Act of 1976 (Pub. L. 94-579; 90 Stat. 2743).

(b) "Unpatented mining claim" means a lode mining claim or a placer mining claim located under the General Mining Law of 1872, as amended (30 U.S.C. 21-54), for which a patent under 30 U.S.C. 29 and 34 CFR 3860 has not been issued.

(c) "Mill site" means any land located under 30 U.S.C. 42.

(d) "Tunnel site" means a tunnel located pursuant to 30 U.S.C. 27.

(e) "Owner" means any person who holds a recorded possessory interest in all or any part of an unpatented lode or placer mining claim, mill site, or tunnel site whether such interest was obtained by location, purchase, gift, inheritance, or other means recognized under law for transfer of the right of possession and enjoyment recognized in the holder of the claim or claims under the General Mining Law of 1872, as amended, *supra*.

(f) "Federal lands" means any land or interest in land owned by the United States as defined by subparagraph (e) of section 103 of the Act and any other land or interest in land owned by the United States which is subject to location and purchase under the General Mining Law of 1872, *supra*, and 43 CFR Subpart 3811 including, but not limited to, those lands within units of the National Park System, forest reservations within the National

Published in 42 F.R. 5298, January 27, 1977 - Effective January 20, 1977.

Circular Distribution List

Forest System and wildlife refuges within the National Wildlife Refuge System.

(g) "Proper BLM office" means the Bureau of Land Management State Office having jurisdiction over the area in which the lands subject to the regulations are located. (See 43 CFR 1821.2-1 for office location and area of jurisdiction.)

(h) "Date of location" means the date indicated on the notice of location or discovery posted on an unpatented mining claim, mill site, or tunnel site under state law, or, if state law does not require the posting of a notice of location or discovery for unpatented mining claims or tunnel sites the date that the notice of location of the claim was posted in accordance with 43 CFR Parts 3830 and 3840 or if state law does not require the posting of a notice for mill sites, the date that the person who located the site began using or occupying the site for mining or milling purposes.

(i) "Official record of the notice or certificate of location" means the official document of recordation and all accompanying maps, papers or other documents filed for record with the recorder or other officer now authorized to record such instruments under state law in the local jurisdiction where the unpatented mining claim, mill site, or tunnel site is located and any amendments thereof which may change or alter the location of the claim or site.

§ 3833.1 Recordation of mining claims.

§ 3833.1-1 Manner of recordation—National Park System.

The owner of an unpatented mining claim, mill site, or tunnel site located within the boundaries of units of the National Park System must comply with the requirements of the Notice of October 13, 1976, entitled "Claimants of Mining Claims," published on October 20, 1976, at 41 FR 46357, and the requirements of Park Service regulations concerning recordation in 36 CFR Part 9, and copies of all material received by the National Park Service pursuant to that Notice will be given by the Park Service to the proper BLM office. Compliance with the requirements of that Notice will be deemed full compliance with the requirements of section 314 of the Act for all owners of unpatented mining claims, mill sites, or tunnel sites within the boundaries of any unit of the National Park System.

§ 3833.1-2 Manner of recordation—other Federal lands.

(a) The owner of an unpatented mining claim, mill site, or tunnel site located on or before October 21, 1976, on Federal land, excluding land within units of the National Park System, shall file (file shall mean being received and date stamped by the proper BLM office), before October 22, 1979, in the proper BLM office a copy of the official record of the notice or certificate of location of the claim or site filed under state law, or, if state law does not require the recordation of a notice or certificate of location of the claim or site, a certificate of loca-

tion containing the information in paragraph (c) of this section.

(b) The owner of an unpatented mining claim, mill site, or tunnel site located after October 21, 1976, on Federal land shall file (file shall mean being received and date stamped by the proper BLM office), within 90 days after the date of location of that claim in the proper BLM office a copy of the official record of the notice or certificate of location of the claim or site filed under state law or, if the state law does not require the recordation of a notice or certificate of location of the claim or site, a certificate of location containing the information in paragraph (c) of this section.

(c) The copy of the notice or certificates filed in accordance with paragraphs (a) and (b) of this section shall be supplemented by the following additional information unless it is included in the copy:

(1) The name or number of the claim, or both, if the claim has both;

(2) A reference by book and page or other identification number to the county or other local public record of the notice or certificate and, if amended, of the last recorded amendment thereof;

(3) The name, and current mailing address, if known, of the owner or owners of the claim;

(4) The type of claim or site;

(5) The date of location;

(6) For all claims of sites located on surveyed or unsurveyed lands, a legal description shall be furnished. This description shall recite the approximate location of all or any part of the claim or site with a 160 acre quadrant of a section (quarter section) or sections, if more than one is involved. In addition, there must be furnished the township, range, meridian and state obtained from an official survey plat or other U.S. Government map showing either the surveyed or protracted U.S. Government grid, whichever is applicable;

(7) A map with a scale of not less than 1/4 inch to a mile showing the survey or protraction grids on which there will be depicted the location of the claim or site. Contiguous claims or sites and groups of claims or sites in the same general area may be depicted on this single map so long as the individual claims or sites are clearly identified;

(8) If the individual claim or site or group of claims or sites are located on unsurveyed land and it is not a part of or included in the notice or certificate, there shall also be furnished either a narrative or a sketch describing the individual claim or site or group of claims or sites in reference to some topographic, hydrographic or man-made feature. Such narrative description or sketch shall set forth the boundaries and position of the individual claim or site or group of claims or sites with such accuracy as will permit the authorized officer of the agency administering the surface of the lands to identify and locate the claimed lands on the ground;

(9) Nothing in the requirements for a map and description found in this sec-

tion shall require the owner of a claim or site to employ a professional surveyor or engineer; and

(10) For claims on O & C lands located pursuant to 43 CFR subpart 3821 and claims located pursuant to Public Law 359, 43 CFR Part 3730, the notice or certificate shall be so marked.

(d) Each claim or site filed shall be accompanied by a \$5 service fee which is not returnable.

§ 3833.1-3 When recordation not required.

If the owner of an unpatented mining claim or mill site had on file in the proper BLM office on October 21, 1976, an application for a mineral patent which complies with 43 CFR Part 3860, except the requirements for publication and payment of purchase price (43 CFR 3862.4), or if the owner of an unpatented mining claim or mill site located on or before October 21, 1976, shall file in the proper BLM office an application for a mineral patent, as described above, before October 22, 1979, the filing of the application will be deemed full compliance with the recordation requirements of section 314 of the Act and the owner of that claim or site shall be exempt from the filing requirements of § 3833.1.

§ 3833.2 Evidence of assessment work/notice of intention to hold claim.

§ 3833.2-1 When filing required.

(a) (1) The owner of an unpatented mining claim located on Federal land, excluding land within units of the National Park System, on or before October 21, 1976, shall file before October 22, 1979, and prior to December 31 of each calendar year following the calendar year of recording in the proper BLM office pursuant to this subpart evidence of annual assessment work performed during the preceding assessment year or a notice of intention to hold the mining claim.

(2) The owner of a mill site or tunnel site located on Federal land, excluding land within units of the National Park System, on or before October 21, 1976, shall file before October 22, 1979, and prior to December 31 of each calendar year following the calendar year of recording pursuant to this subpart, in the proper BLM office a notice of intention to hold the mill or tunnel site.

(3) The owner of an unpatented mining claim located within the boundaries of units of the National Park System must comply with the requirements of 36 CFR 9.5(d) for annual filing and copies of all those annual filings received by the National Park Service pursuant to that regulation will be given by the National Park Service to the proper BLM office. Compliance with the requirements of that regulation will be deemed full compliance.

(b) (1) The owner of an unpatented mining claim located after October 21, 1976, shall, prior to December 31 of each year following the calendar year in which such claim was located, file in the proper BLM office evidence of annual assessment work performed during the pre-

ceding assessment year or a notice of intention to hold the mining claim.

(2) The owner of a mill site or tunnel site located after October 21, 1976, shall, prior to December 31 of each year following the calendar year in which such mill or tunnel site was located, file in the proper BLM office a notice of intention to hold the mill or tunnel site.

§ 3833.2-2 Form—evidence of assessment work.

Evidence of annual assessment work shall be in the form of either:

(a) An official copy of the affidavit of assessment work performed filed in the local jurisdiction of the State where the claim or group of contiguous claims are located setting forth the following information:

(1) The serial number assigned to each claim by the authorized officer upon filing of a copy of the official record of the notice or certificate of location or patent application in the proper BLM office;

(2) Any change in the mailing address, if known, of the owner or owners of the claim or claims; or

(b) An official copy of the detailed report concerning geological, geochemical, and geophysical surveys filed in the office of the local jurisdiction in which the claim is located pursuant to the Act of September 2, 1958 (30 U.S.C. 28-1), setting forth the following additional information:

(1) The serial number assigned to each claim by the authorized officer upon filing in the proper BLM office of a copy of the official record of the notice or certificate of location or patent application; and

(2) Any change in the mailing address, if known, of the owner or owners of the claim.

§ 3833.2-3 Form—notice of intention to hold claim.

A notice of intention to hold a mining claim or group of mining claims or mill or tunnel sites shall be in the form of a letter signed by the owner or owners of such claim or site or their agent setting forth the following information:

(a) The serial number assigned to each claim by the authorized officer upon filing in the proper BLM office or a copy of the official record of the notice or certificate of location;

(b) Any change in the mailing address, if known, of the owner or owners of the claim;

(c) A statement that the claim is held and claimed by the owner(s) for the valuable mineral contained therein;

(d) A statement that the owner(s) intend to continue diligent exploration or development of the claim;

(e) The reasons that physical, legal, or other impediments, beyond the control of the owner(s), have prevented his

filing an affidavit of assessment work performed or a detailed report of geological, geochemical, and geophysical surveys under 43 CFR 3833.2-2 (such impediments may include, but are not limited to, deferral of annual assessment work, in which case the notice must be accompanied by a copy of petition for deferral and the order or decision disposing of such petition); and

(f) As required by section 314(a)(1) of the Act, the date on which a copy of the notice of intention to hold the mining claim, was filed in the office of the local jurisdiction in which the claim is located.

§ 3833.2-4 When evidence or notice not required.

Evidence of annual assessment work performed or a notice of intention to hold a mining claim need not be filed on unpatented mining claims or mill sites for which application for mineral patent which complies with 43 CFR Part 3860 has been filed and final certificate has been issued. (See 43 CFR 3851.5). The filing of an application and issuance of the final certificate will be deemed full compliance with the requirements of section 314(a) of the Act and the owner of that claim or site shall be exempt from the filing requirements of § 3833.2-1.

§ 3833.3 Notice of transfer of interest.

(a) Whenever the owner of an unpatented mining claim, mill site or tunnel site, which has been recorded in accordance with § 3833.1-2, sells, assigns, or otherwise conveys all or any part of his interest in the claim, his transferee shall file in the proper BLM office within 60 days after the completion of the transfer the following information:

(1) The serial number assigned to the claim by the authorized officer upon filing of a copy of the official record of the notice or certificate of location in the proper BLM office; and

(2) The name and mailing address of the person(s) to whom an interest in the claim has been sold, assigned, or otherwise transferred.

(b) Whenever any person acquires an interest through inheritance in an unpatented mining claim, mill site, or tunnel site recorded in accordance with § 3833.1, he shall file in the proper BLM office within 60 days after completion of the transfer the information required by paragraph (a) of this section.

§ 3833.4 Failure to file.

(a) The failure to file such instruments as are required by §§ 3833.1 and 3833.2 within the time periods prescribed therein, shall be deemed conclusively to constitute an abandonment of the mining claim, mill site, or tunnel site and it shall be void.

(b) The fact that an instrument is filed in accordance with other laws per-

mitting filing or recording thereof and is defective or not timely filed for record under those laws, or the fact that an instrument is filed for record under this subpart by or on behalf of some, but not all of the owners of the mining claim, mill site, or tunnel site, shall not be considered failure to file an instrument under this subpart.

§ 3833.5 Effect of recording and filing.

(a) Recordation or application involving an unpatented mining claim, mill site, or tunnel site by itself shall not render valid any claim which would not be otherwise valid under applicable law and does not give the owner any rights he is not otherwise entitled to by law.

(b) Nothing in this subpart shall be construed as a waiver of the assessment work requirements of section 2324 of the Revised Statutes, as amended (30 U.S.C. 28), and compliance with the requirements of this subpart shall be in addition to and not a substitute for compliance with the requirements of section 2324 and with laws and regulations issued by any State or other authority.

(c) Filing of instruments pertaining to mining claims under other Federal law with the BLM or any other Federal agency will not excuse the filings required by this subpart and filings under this subpart will not excuse the filing of instruments pertaining to mining claims under any other Federal law, except for filing a notice or certificate of location under this subpart which is marked by the owner as required by section 3833.1-2(c) (10) hereof, which filing shall satisfy the recording requirement for O & C lands under 43 CFR subpart 3821 and Public Law 359 lands under 43 CFR Part 3730.

(d) In the case of any action or contest affecting an unpatented mining claim, mill site or tunnel site, only those owners who have recorded their claim or site pursuant to § 3833.1-2 or filed a notice of transfer of interest pursuant to § 3833.3, will be considered by the United States as the record owners of such claim or site and will be personally notified of such action or contest. Owners who have not recorded a claim or site or filed a notice of transfer will not be personally served but will be put on notice only by publication and will be bound by any contest proceeding even though they have not been personally served. Diligent search and inquiry for the purposes of contesting the validity of a mining claim under this Title shall only require a search of the records of the proper BLM office and shall not require any other search or inquiry.

(e) Actual notice of an unpatented mining claim or mill or tunnel site by any employee or officer of the United States shall not exempt the claim or site from the requirements of this subpart.

Signed at Washington, D.C. on January 19, 1977.

CHRIS FARRAND,
Deputy Assistant
Secretary of the Interior.

[FR Doc.77-2315 Filed 1-19-77;3:49 pm]

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