

CONTACT INFORMATION

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PRINTED: 06-23-2010

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: SUNSET MINE

ALTERNATE NAMES:

MCKALOUFF AND GILBERT PROP. THOMAS MCAULIFFE GROUP THOMAS GIANMI CLAIMS GILBERT CLAIMS LAST DOLLAR CLAIM

PINAL COUNTY MILS NUMBER: 207

LOCATION: TOWNSHIP 3 S RANGE 11 E SECTION 10 QUARTER SE LATITUDE: N 33DEG 10MIN 55SEC LONGITUDE: W 111DEG 12MIN 05SEC TOPO MAP NAME: MINERAL MTN - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

GOLD SILVER LEAD COPPER SULFIDE COPPER OXIDE

BIBLIOGRAPHY:

ADMMR SUNSET MINE FILE ADMMR U FILE PINAL CU 12

RECEIVEI NIX AUG 1 1 1958 HAUG 7 F DEPT, MINERAL RESOURDES PHOENIX, ARIZONA 79 58 Dinclained Unclained Unknown Insufficient address Noved, Left no address No such office in state Pos LAGE DUE 2 OEN TS Mr. W. O. Key Sunset Mining Company Box 265 Superior, Arizona AS.

10.00

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

August 7, 1958

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

Sunset Mine (Pinal County) copper with some gold and silver (Property) (ore)

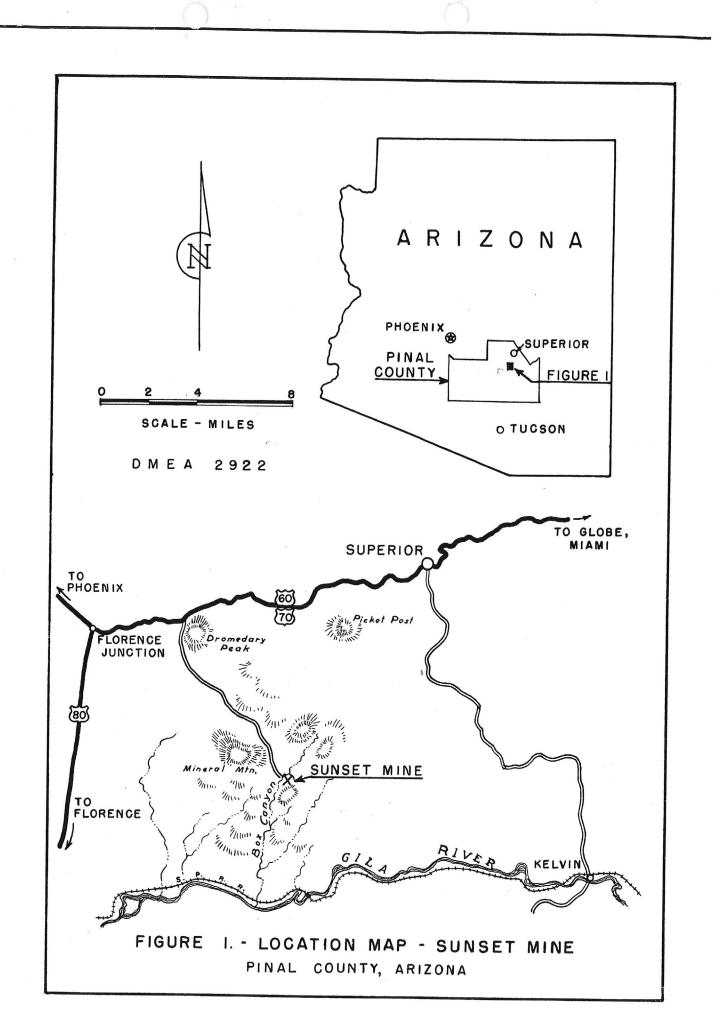
We have an old listing of the above property which we would like to have brought up to date.

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

Frank P. Knight

FRANK P. KNIGHT, Director.

Enc: Mine Owner's Report



5.

Sunset Mining Company

DEPT. MINERAL RESOURCE

JAN 22 1945

PHOEN.

ARIZON

Florence Junction, Arizona

INCORPORATED

1104 Bryant Street -- San Francisco 3, California. January 20-1945

Arizona Department of Mineral Resources 304 Home Builders Building Phoenix, Arizona.

Dear Mr. Dunning;

I was called here late last month and expected to remain here only couple of weeks, been delayed but will leave for the Mine around last of this month,

We are working the same crew we had when you and Mr. MacFarlane called upon us at the mine on the 1st of last month, we encountered some good ore and shipped a car of same on the 10th of December, also should soon ship another car, although lately we put three of the men working at another point where we hope to soon get good shipping ore, from letters received from the mine I can plainly see we will need more of the Non-Highway gasoline within the next couple of weeks, or maybe sooner, S0, am herewith enclosing the Application for an additional 1590 gallons.

This Application might be a couple of weeks earlier than we originally thought we might need more of this gasoline, but we SUFE have been doing considerable work at the mine, using both compressors some days and one compressor practically every day, also hoisting both ore and waste right along, we try to watch this very carefully and use the gasoline only when necessary, Am also enclosing herewith the last "Mileage Ration Identification Folder".

While at the Ration Board in Florence, Arizona on the 15th of last month, Miss Sims (in charge there) incidentally stated we should send you this Application "at least two weeks, before we needed the gasoline".

I will greatly appreciate it if you will forward to me here (W.O.Kay-1104 Bryant Street-San Francisco 3, California) your approval for this Non-Highway Gasoline and I then will forward same to the Florence Ration Board with request they mail the coupons direct to the Sunset Mine- box 265-Superior, Arizona, so our foreman can get them before he runs out of the few coupons he now has on hand.

Will call upon you just to say "hello" when enroute back to the mine, in the meantime please accept my best regards and thanks,

Yours very truly

W.O. T.

W.O.Kay Sunset Mining Company

August 28, 1944

Mr. Thomas Giannini 445 Myrtle Street Redwood City, California

Dear Sir:

The latest news we have concerning the Sunset Mine in Pinal County, Arizona is dated March 21, 1944 and is as follows:

> "It is expected that actual production will be started at the Sunset mine sometime in April and development work is proceeding. The 386-foot crosscut off the 310-foot level has just been completed at the Sunset, which is about 20 miles northeast of Florence, Arizona. Values are in copper, gold and silver, and five men are employed at present. The property is being operated by W. O. Kay, Florence Junction, Arizona, under lease from the Sunset Mining Company."

We will forward your letter to our field engineer in that district, Mr. Andrew Macfarlane of Globe, Arizona, and ask him to advise you direct if there is any later news.

Yours very truly,

Chas. H. Dunning Director

CHD:LP

CC: Mr. Andrew Macfarlane

Redwood City, Calif. August 25th 1944 DEPT. MINERAL RESOURCES RECEIVED AUG 28 1944 PHOLNER, ARLEONA

Arizona Bureau of Månes 413- Home Builders Building Phoenix, Ariz.

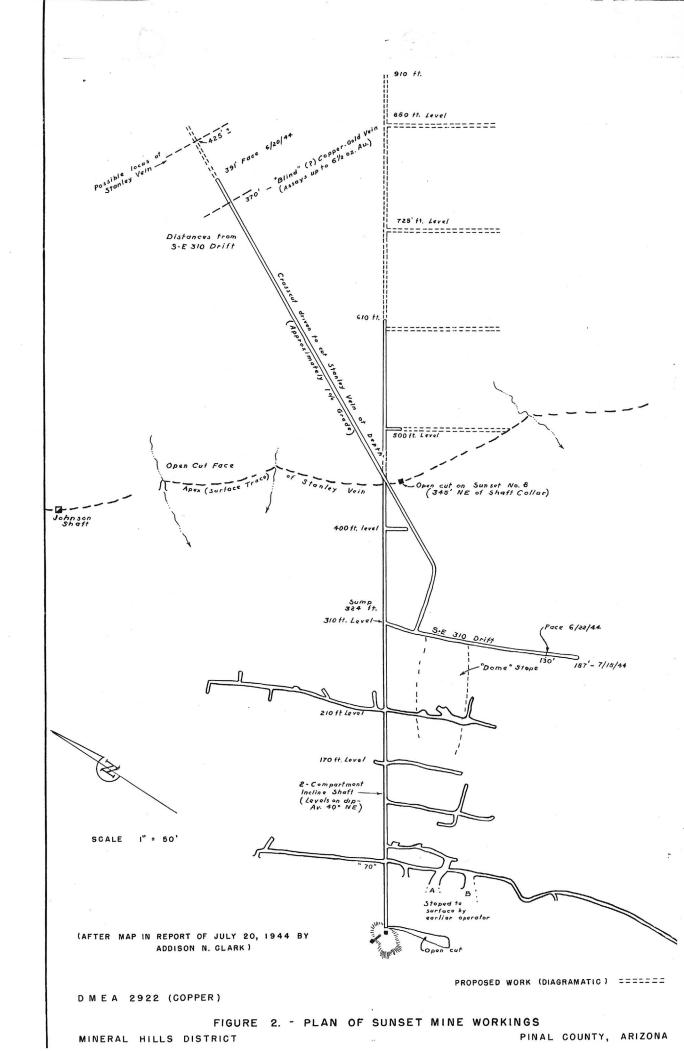
Gentlemen;

I would like to make an enquirelregarding some infomation on The Sunset Mining Corporation located a at Florence Junction; Arizona.

I wish to know if it is operating now at this present time, and if so what minerals do they or metals take from the mines. Any information that I may receive from you will be kept strictly confidential, and appreciated. Thanking you very kindly, I remain

Yours very truly. Thomas Giannini

445- Myrtle St. Redwood City, Calif.



January 23, 1945

Mr. W. O. Kay Box 265 Superior, Arizona

Dear Mr. Kay:

Sumart

We have received your letter of the 20th with gas application and take pleasure in approving same and returning herewith.

We trust your shipments turn out well and continue to increase and that you make a lot of money.

Yours sincerely,

Chas. H. Dunning Director

CHD:LP Enc.

August 28, 1944

MEMORANDUM

TO: Andrew Macfarlane

FROM: Chas. H. Dunning

Herewith inquiry regarding the Sunset Mine near Florence.

If you have any further data you might write this man and send copy for our file.

CHD:LP Enc. 2

SUNSET

COPPER COMPANY MINE OFFICE: BOX 265 SUPERIOR. ARIZONA • W.O.Kay 1104 Bryant Street San Francisco 3, California

> Department of Mineral Resources 304 Home Builders Building Phoenix, Arizona.

STATE

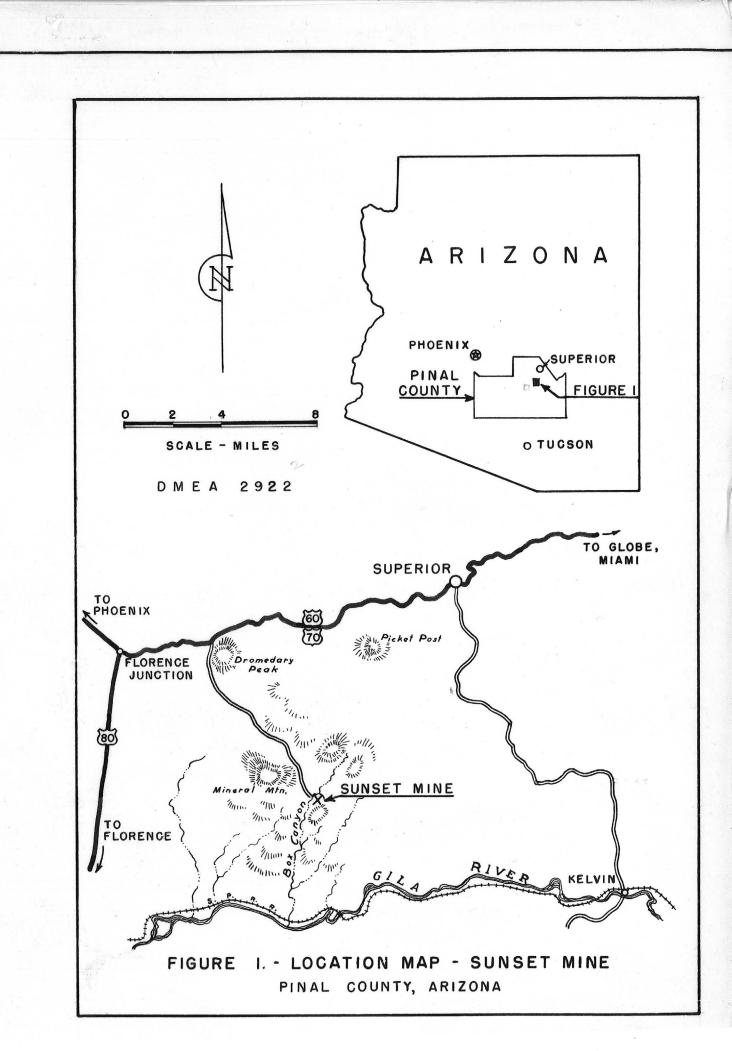
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WISELY

U.S. SAV

ATTN.Mr.Chas H.Dunning



DEPARTMENT OF	MINERAL	RESOURCES
STATE	OF ARIZONA	

OWNERS MINE REPORT

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Date January 11, 1940

A	,,
Mine Thomas McAuliffe Group	a substitution and the second second second
District Mineral Hill Mining District	Location 17 mi. N E of Florence
Former name	
Owner A. A. Brunenkaut	Address Box 162, Florence
Operator	Address
President	Gen. Mgr.
Mine Supt. Principal Metals Silver, lead, gold, coppe	Mill Supt. Noore boog stream of block story continued book or Men Employed . and it of it of the story of the
Production Rate	
Power: Amt. & Type	THOMAS MCAULIFFE GROUP
Operations: Present Property inactive a	Ag, Pb, Au, Cu
	Pinal 11-3 T3S, R 11 E
a sea anna an an ann an an Anna Anna an Anna An	A. A. Brunenkaut, Box 162, Florence
Operations Planned Further development	• I see a second s
	Special Problems, Reports Filed
Number Claims, Title, etc. 9 unpatented	alaima
Number Claims, Title, etc. 9 unpatented	claims.
	Remarks
Description: Topog. & Geog. Rather steep sparse.	but not very high hills and washes. Vegetation
	If property for sale: Price, terms and address to negotiate.
l - " l - Winze Approximate Various ste	ed shaft - approx. 300' deep - water stands 60' ""20'" (from collar. "45'" ely 600' of tunnel opes & shallow surface cuts gs open except deep shaft.
(over)	Use additional sheets if necessary.

AT-18 DEPARTMENT OF MIN	- Openal -
OUNTRY OF THIN STATE OF A OWNERS MINE	RIZONA montaviarentia a enotavit
	Date January 11, 1940
Mine Thomas McAuliffe Group	Ore: Positive & Probable, Ore Dungs, Tailings
District Mineral Hill Mining District	Location 17 mi. N E of Florence
Former name Owner A. A. Brunenkaut	
Operator	
President	
Mine Supt.	
Principal Metals Silver, lead, gold, coppe	
Production Rate	Mill: Type & Cap.
Power: Amt. & Type	Water Supply Connection supply about the
Operations: Present Property inactive at present	
s and . When one seal estimates, but facence	Brief History Iroperty located sector as seen
Operations Planned Further development.	
	Special Problems, Reports Filed
Number Claims, Title, etc. 9 unpatented claims.	

Remarks

Description: Topog. & Geog. Rather steep but not very high hills and washes. Vegetation sparse.

Mine Workings: Amt. & Condition 1 - Inclined shaft - approx. 300' deep - water stands 60' 1 - " " " 20' " (from collar. 1 - Winze " 45' " Approximately 600' of tunnel Various stopes & shallow surface cuts All workings open except deep shaft.

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APPRAISALS EXAMINATIONS VALUATIONS

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CONSULTING MINING ENGINEER AND GEOLOGIST 1440 BROADWAY, OAKLAND 12, CALIFORNIA ELECTRO-GEOPHYSICAL SURVEYS

Feb. 12 1 9 4 9

Mr. William O. Kay, Vice President and General Manager, SUNSET MINING COMPANY, 213 Minna Street, San Francisco/3.

Dear Mr. Kay:

Since writing you I have had a conference with Mr. George Cassar, who as your mine foreman during the time of your sinking the Sunset Shaft from the 310-foot to the 600-foot level, and your key-man at the mine during both of my surveys in 1944, is thoroughly conversant with underground conditions---and who knows his mining geology a hell of a lot better than a few men I know who term themselves geologists.

My talk with Cassar, during which I took copious notes that will be quite valuable to us when we resume operations, confirmed conclusions of mine which I had made long before I talked with him---in fact, I arrived at some of them clear back in the end of 1944 while I was sojourning on the property with yourself.

One was that the character of the covellite (rich copper-sulphide ore in that vein) would change from crumbly, "sooty" and hard-to-save powdery material which in that dry desert air ran out of every crack in your bin and the ore-cars on the railroad, to hard crystalline form, beneath the level of the "permanent water-level" or "table". At the point in the drift southeast from the 510-foot shaft-level which is just about beneath the place in the 310-foot level where I took my richest covellite specimensamples (and I have those samples yet, fortunately) Cassar stated that he found the hard, crystalline covellite in the rock-seams in the vein.

Since covellite in its purer form is 86% copper and 14% sulphur, that is very gratifying information indeed.

Another point on which I quizzed Cassar was: Does the calcite in the vein persist to depth?

Cassar's reply was to produce a small sample-sack, extract a finelooking specimen of crystalline calcite and hand it to me--from the 510-foot level. I promptly appropriated it, and now have it. You will recall my asking you in June of 1944 where the nearest limestone formations are, with relation to the mine; and your telling me that you knew of none at all near it; and the long face I pulled over that---till you casually mentioned that you had <u>calcite</u> in the Sunset Vein. Do you recall that I more or less mentally aviated at that----and told you that <u>calcite</u> is (a) the mother of limestone and (b) your <u>catalytic-precipitant</u> which is responsible for the deposition, out of up-flowing magmatic solutions in that and the other two fissure veins, of your sulphide copper ores?

Persistence of your calcite to depth, and presence at depth (below level of "permanent water-table") of rich covellite ore in hard crystalline form, are

about all the incentive you or any one else could need for aggressive refinancing and prosecution of operations on the property----and on as large a scale as the financial set-up will permit.

But when I asked Mr. Cassar some leading questions about the paralleling Stanley Vein, where it is cut by the 310-foot level crosscut and into which you (and Cassar himself, leasing) drove drifts and a winze, out of his sack of characteristic ore-samples came a sizeable chunk of "gray copper" ore of a character which made me borrow a hammer, whack it in two, and appropriate half of it---which is in my briefcase along with that calcite crystal.

Gray copper is <u>chalcocite</u>, one of the richest of the sulphide copper ores. I do not recall the exact copper-to-sulphur ratio, as my table-handbook is "on lendlease" to Miss Ashley at the moment; but it comes to me that it is in the neighborhood of 79% copper to 21% sulphur. A body of chalcocite, or a good plump sub-vein of it below the water-table (in the "sulphide-zone") will stand a few engineers I know on their ears. <u>Myself ditto</u>. And---you can expect it--because since it is present in that winze in the Stanley Vein only some 20-odd feet below permanent water-table level, it is sound logic to expect more of it, and richer, at lower levels in the Stanley Vein.

Reverting to the covellite: Cassar told me something which I previously had not known---or suspected: That in the covellite found in the Magma Mine are <u>appreciable silver values</u>. I shall have qualitative tests made at once on the 310-foot-level covellite samples I have, to see if silver is also present in Sunset covellite. If so, it will help your <u>gold</u> values to foot mining and concentrating costs of the copper ore.

I have purposely "soft-pedaled" on your personally-reported sample-assay of a sample, taken by yourself, from the winze in the Stanley Vein's sub-vein which you call "the gold vein", carrying 6.52 ounces of gold per ton (if you had a ton of it). At the Treasury-spiked \$35 price of gold (which is a high crime and misdemeanor against the mining industry, committed by the New Deal Administration) that means a dollar-value (gross) of \$228 per ton. With any such values, or a fraction of such values, of gold ore in your Stanley Vein as that---or even such values as the \$38 per ton return on your own personal sample taken there on St. Patrick's Day of 1945---you and your associates can b be definitely sanguine. However: It is highly probable that in the zone of that vein below water-table level the ores will become "baser", and such gold values as occur will be more locked up in and with the sulphides of iron and copper. But you have several hundred feet (more than 400) of oxidized-zone ore in that wein between that winze-level and its apex, and close to 3,000 feet of workable length. You can draw your own conclusions.

You may take the foregoing in connection with my letter of February 9. I am sending this also to you in duplicate.

My recommendation is that you and your associates take expeditious steps to get the property refinanced, pumped out, equipped with adequate hoisting and air-compressor facilities, and into full-scale operation. The copper shortage in this country----and abroad-----and the Government's stockpiling demands too, make this a key-time to get any such potential copper producer actually into commercial production.

Addison P. Clark

ANC/fv

APPRAISALS EXAMINATIONS VALUATIONS

CONSULTING MINING ENGINEER AND GEOLOGIST 1440 BROADWAY, OAKLAND 12, CALIFORNIA ELECTRO-GEOPHYSICAL SURVEYS

Feb. 9 1949

Mr. William O. Kay, Vice President and General Manager, Sunset Mining Company, 213 Minna Street, San Francisco 3, Calif.

Dear Mr. Kay: --

It is a matter of justifiable personal pride to me to learn that you have plans in hand to reactivate the Sunset Mine in Pinal County, Arizona, and to install more adequate machinery to sink its main (Sunset) shaft deeper and into the sulphide ore zone of the Sunset Vein. I say "personal pride" because in my 1944 report on your property I "pulled no punches" when I had surveyed it, surficially and underground, merely stating in it my technical findings and the inescapable conclusions I arrived at through close-up study of the property and adjacent and general regional geology.

Since you and your affiliates have done me the honor to name me as consulting engineer to your older or "pioneer" corporation, you can depend upon me to place and keep at your disposal all of the data and intimate knowledge on and of the property which I have, and to co-operate with you in every way I can in your refinancing program and the ensuing re-equipment needful to deeper sinking on the Sunset Vein and such lateral ore-development as shall be deemed advisable during and after the shaft-deepening.

As to vein-exploration beyond the deepened shaft, as well as to the northwest and southeast of it in that vein: As I have told you, this winter I have been working out details, costs, etc., for a diamond drilling exploration program for the Giant Jumbo lead-silver-copper-gold property nine miles west of Battle Mountain, Nevada --- working "in closed circuit" with Mr. Stanley F. O'Leary, President of the Giant Jumbo Mining Corporation, who himself is an experienced mining engineer (Stanford University School of Mines 13). Details of that program, tied in as a supplement or "codicil" to the last report made by any engineer or geologist on the property (my own of 1938) show somewhat strikingly the saving over sinking and drifting which can and will be effected in that vein-exploration soon as weather conditions in Nevada permit our taking one of several bidding contractors to the property and "setting the green light".

My file copy of that report and the 1948 revisions and recommendations are, with Mr. O'Leary's sanction, at your disposal for study. I think that a perusal will give you some ideas as to considerable potential savings in exploration of the Sunset Vein. However: The Sunset Vein is only the smaller of two true fissure veins within the Sunset Mining Company property, and only about 700 feet from the Sunset Vein to the southwest, paralleling it, is the true-fissure Arizona Mining Company Group vein, which from surface comparisons appears to be as large as the Sunset Vein and Stanley Vein combined.

2/WOK / ur 3t/2-9-49

It is entirely practicable to explore both the Sunset Vein and its northeast and southwest paralleling neighbor fissure veins from a single drilling machine set-up at the bottom of the Sunset Shaft. And that means from either its present bottom, at 610 feet (incline-depth) or a sump say 300 feet deeper than asof now. Such a downward-ahead drill-test, with two-way "drift" drillholes, in the Sunset Vein, together with one or more drillholes from that set-up laterally into both the Stanley and the Arizona Mining veins (i.e., "crosscutting" holes) undoubtedly will disclose, at the respective vein-depths, vital and interesting knowledge. Knowledge, moreover, which can and probably will save thousands of dollars of operating capital.

In my estimate for the Giant Jumbo drilling program I am figuring, as you will note, on several holes that may exceed 1,000 feet in length. Test-holes at the Sunset will not have to be that long.

Bear in mind, too, the fact that a horizontal "crosscut hole" from the present (610-foot) bottom level of the Sunset Shaft would tap the Stanley Vein at an (inclined) depth of at least 800 feet; and, on the other side, tap the large Arizona Mining Group vein at an incline-depth in excess of a thousand feet down from the immense outcrop on the peak southwest of the collar of your Sunset Shaft.

For the reasons inherent in the foregoing, I definitely recommend that we include some diamond-drill exploration (and <u>con-</u> <u>tractual</u>, too---under our own engineering direction---and <u>not</u> <u>Government-bossed</u> Bureau of Mines drilling, at the time and pleasure of the USBM field men) in our Sunset program.

From perusal of my Giant Jumbo report-supplements you will see that the overall total of my cost estimate is \$50,000. That covers an estimated total of 5,000 feet (a mile) of drill-hole. Furthermore, the "breakdown" includes \$5,000 for rehabilitation of shaft and roads that we will not have to include in Sunset estimates. Also, that \$15,000 item can be pared down somewhat in the Sunset case. However, since underground drilling is powered by compressed air, an absolutely-dependable compressor is a <u>MUST</u> for Sunset. Ditto for a mine-ventilation blower and engine. And while that old 15-HP Fairbanks-Morse gas-powered hoist might get by in a pinch, I frankly do not recommend that.

I <u>do</u> recommend that you inaugurate steps, as expeditiously as you can, for enlistment of a minimum of \$50,000 operating capital to commence exploration and commercial development of the

3/WOK/5 15 /2-9-49

Sunset Vein itself, and to initiate supplementary diamond drilling exploration of that vein and both of the larger veins. It would be "better business" to set \$75,000 as the financing objective, with the added \$25,000 as a sensible contingency margin. O'Leary, incidentally, in his own Giant Jumbo financing plans is doing precisely that; and incidentally too, while it is not itemized, you will see my own compensation for engineering supervision in the bottom item of that "breakdown" on page 21-A of my report.

The Sunset property, and the co-controlled adjoining Arizona Mining Co. group, definitely warrant expenditure of the amount of capital named above. The Sunset Mining Company's property, exclusive of the sidelining Arizona Mining Company ground and its large fissure vein, alone well warrants that much capital expenditure. With the Sunset Shaft itself already 300 feet below the "permanent water-table", all-sulphide mineralization can be expected within moderate added sinking depth. As a matter of simple fact, that shaft is virtually within the sulphide zone now; and while I have not personally been below the 310-foot level in the shaft, at that depth you already were disclosing copper values in such forms as bornite and covellite. I found also spots of chalcocite at that depth, and evidence at one spot of cuprite and tetrahedrite. All rich copper ores. And they did not get there from above.

The Sunset has one thing in common with the famous Magma Mine--in the Sunset Vein there have been associated gold values of a magnitude to warrant belief that recovered byproduct gold will go far towards footing the bills for recovery of commercial copper values. And the gold values disclosed in the Stanley Vein 350 feet northeast of the Sunset Shaft, in that crosscut, warrant that belief for that vein as well. It probably will hold good also for the large Arizona Mining Group vein.

Recent sharp rises in the market prices of base metals are definitely a favorable factor for Sunset. Demands of Industry plus war-preparedness stockpiling make this a very favorable time to make a definite start towards getting Sunset into commercial production. And as to its paying worth-while financial returns to those who elect to "sit in" with you by co-investment, there is no doubt in my mind whatever---given adequate refinancing on the lines suggested, conservative business management, and sound engineering direction of operations.

You and your associates may count upon me to co-operate with you to the fullest in your getting such a program financed and under way. I said five years ago, and I repeat now, that the Sunset can be developed into a major Arizona producing mine. With your dead wood cleared, and an operating treasury set up, you will be definitely on your way to such a status.

Addison M. Glank

ANC/mm

Consult 1440 Br	dison N. Clark ting Mining En LA, roadway, d, California.		COPP NE ASSAY		ATE	FOR	SUNSET 1 June 23,	MINE 1944
No.	LOCATION	Cu. %	Ag. Oz.	Au. Oz.	Pb Fo%	Zinc%	.% Moisture	REMARKS
1-S	Johnson Sh/Stanley V	2.41	0.80	0.08	(Grab/F	led Oxid	le Ore)	\$11.56/Ton
2-S	11 12 11 17	2.21	0.40	0.20	(" /]	Black "	")	\$14.80/Ton
<u>3-S</u>	" Tun. 250 ' NW/Sh.	1.33	0.50	0.50	(Red.02	r/some s	sulph.)	\$22.37/Ton
4-S	22 23 27 29 29	5.75	0.80	0.16	(Hvy.b.	k.sul.8	c CO3)	\$25.72/Ton
5-S	S.V.Tun.350'SE Sh.	11.50	2.00	0.06	(" "	8 11 8	: Malach) \$42.62/Ton
6-S	Cut,SS#8,Stan. Vein	3.79	0.20	0.02	(Grab/S	ul.& Ca	arbs)	\$13.72/Ton
SS-1	Sunset Vein/210'Levl	0.39	0.10	0.02	(X-Fiss	sure N c	of Sh.)	\$ 1.76/Ton
SS-2	SS Vein/310'Lev.S.	20.75	3.00	0.02	(Covel:	lite & I	31.0x.)	\$73.38/Ton
SS-3	11 11 / 12 11 12	3.74	0.80	0.02	(Same/a	across 2	feet)	\$14.00/Ton
SS-4G	X-Cut 310'Lev.370'NE	1.92	0.40	1.00	(Au.Ve	in, top s	shoot)	\$41.80/Ton
SS-5	310' Lev.S., Face	2.90	0.60	0.02	(Grab 1	r. skij)load)	\$10.56/Ton
SS-6	tt tt tt tt	12.78	2.00	0.02	(1월 W	fr. H-	-W)	\$45.75/Ton
	17 TO 18 TO	0.20	0.10	0.02	(2' be]	ow F-W	Gouge)	\$ 0.70/Ton
SS-8L	Lead-Zinc V, S.S.#10	0.20	0.40	0.01	19.8	3.3		\$31.20/Ton
	Mine Examination Sam		u @17d :	incl.		W. 9	y. Sin	un.

Prem.;Ag @71¢; Au @ \$35/ Pb @ 62¢; Zn.@ 82d

ASSAYER

DEPARTMENT OF MINERAL RESOURCES News Items Date March 13, 1940. 6 Mine Mc Auliffe Group. Location /16 Mi. NE of Florence Brunenkant Owner A.H. Florence, Arizona Address Under option to Operating Co. Sunset Mining Co Address Florence, Arizona stin Pres. Stanley A. Wardle Genl. Mgr. Mine Supt. Mill Supt. Principal Metals Gold, copper, lead, silver ?? Men Employed Not producing Production Rate Mill, Type & Capacity Power, Amt. & Type Signed wal (Over)

Present Operations JANEMIM TO TNEMTRATEd Date March 13, 1940. Mine Me Auliffe Group. Location /16 Mi, NE of Florence Owner A.H. Brunenkant New Work Planned The Sunset people recently obtained a 60 day option on this property, which adjoins their own, and are doing quite extensive sampling at various points on the Miscl. Notes ground. It is reported that results obtained to date have been very encouraging. Stanley A. Wardle Genl. Mgr. Mill Supt. reagon TOVEPS BROT Men Employed Production Rate . 3. Pr Pr 2 to land Signed ("tevO)

ME Aulifle Group Florence ASSAY CERTIFICATE _19-10. an 25 Renton Holcow: TOTAL VALUE PER TON GOLD SILVER PERCENTAGE OF Sample No. Owner's Mark on Sample OZS. PER TON VALUE PER TON OZS. PER TON VALUE PER TON OP'R IBON TIN LEAD Fg Trac F 3.0% 12.85 3.44 53 60 -+ 3.30 10 .

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Assayer

	MINE: SUNSET			COUNTY: P DISTRICT: METALS; C	E Contraction	
DATE:	AND ADDRESS:	in the second state of the	MINE STA	rus		
5/1/44	W.O.Kay, Flor Box 265		5/1/44	Developing		
2. P1 3. C. 4. W. 5. Br 6. Lo 7. *)	mset Mine nal County, A E. Inskeep R. Jones camined Decemb ow grade coppe It is my opini he expenditure ill undoubted	er 22, 1948 r-gold ore on that there of a necessa	rily large	amount of m	t this time to oney in proving re."	justify up wha
			* * * *			
	E	resume work a lode claims non mine has been	plans of the	e on 17 nce. The 00-ft. in- sunk to . <i>149, No. 6</i> Sunset		

DEPARTMENT OF MINERAL RESOURCES state of arizona field engineers report

Mine Sunset

Date February 20, 1963

District Mineral Hill Dist., Pinal Co. Engineer LewisA. Smith

Subject:Brief mine visit and previous interview with Woody Nichols (Globe)

Location: Approximately Sections 1-2, T. 3 S., R. 11 E.

Access: 4 miles E of Florence Junction on Hwy. 60-70, thence 12 miles on a graded county road to the southeast. This county road continues on south to Price and Florence via Martinez Canyon. (It is 2 miles south of the Ajax and Woodpecker mines and is adjoined on the south by the Gilbert Group, also owned by Nichols.) The road was severely gutted by recent torrential rains.

Owner: Woody Nichols, Globe, Arizona.

Minerals: (1) lead-silver (2) copper, gold and silver

Work: The main shaft is reported to be 200 feet deep but is partially filled by water at present. According to the caretaker who had worked in the mine, the mine had several hundred feet of lateral workings and some stopes.

<u>Geology:</u> From the meager outcrops the main vein traverses schists that are strongly iron stained near the outcrops. It strikes about NW-SE and is intermittently exposed under a strong gossan or "iron cap."

The dumps show some quartz, galena, anglesite, cerussite and calcite, and these dumps are extensive.

North of the 200 foot shaft, approximately 300 feet, there is an undeveloped vein that is somewhat transverse to the main vein. This vein is exposed on a sharp ridge in a few separated small outcrops and from these it was estimated that it trends NW but at a greater angle than the main vein. It appears where observed to be about 3-5 feet wide and contains chrysocolla, malachite and calcite with some quartz. Nichols reported that it runs up to 22 per cent copper, but would average much less. He plans to open it up before long.

It is planned to visit this area later when the roads are more accessible.

Conference with Woodrow Nichols, owner, 11/9/66 - Mine Visit afterward.

Nichols reported further bulldozer work north of the old Sunset workings and the making of a road to the ridge crest. At the top a bulldozer cut exposed oxidized copper in a vein that is transverse to the main Sunset vein. The exposed part of this vein appears to be about 4 feet wide. Nichols plans more work before the winter is over. The cut is up to 6 feet deep now, whereas in February it was shallower.

MEMO LAS 11/9/66

Faul: Have no idea what area de ris tacting a bout. Perhaps an in quilly to him would clear it up.

P. O. Box 1074 Dominion Hotel Globe, Arizona March 4, 1964

57 mour

Shattock Den Mining Corporation Humbolt Arizona

ATTENTION: Mr. D. M. Kentro

Dear Sir:

I am writing in regard to mining property I have in the Mineral Hills Mining District. I have one of the old mining holds in that area. It lays west of the Silverbelt Martinez mine. The property is unpatented mining claims dating back behind the first World War, set by two of my brothers and one half-brother. The property covers the Old Sunset Mine the McKalouff and Gilbert property. I have around 35 claims I am in on.

The Old Sunset working at the present time. I have 15 or 18 tons of good Malacite and Pyrite ore stacked up off of the big ore vein, I have uncovered with my tractor, which I think is the main ore lead instead of the vein the Sunset works is on. I have it proven in place for a good one-half or three-quarter mile by tractor.

This property lays in a southerly direction from the old Raymart-Wood Pecker and Ajax mines, a very highly mineralized area. The Gilbert property, my half-brother's, was set on a 7 to 11 oz. gold vein is still in place and not much work on it. There are also lead and silver,

From the old shipping records on the Sunset I saw at the Magma office, the gold carried that property.

If interested in this property, I would appreciate your contacting me.

Yours very truly,

Woodie J. Withols

Mr. Add Consult	ison N. Clark	GMA	COPP	ER C)I PA	FOR	SUNSET 1	MINE
	roadway, I, California.	Catal	IE ASSAY	WWW	SAP		une 23,	
No.	LOCATION	Cu.%	Ag. Oz.	Au. Oz.	PD To%	Zinc%	.% Moisture	REMARKS
1-S	Johnson Sh/Stanley V	2.41	0.80	0.08	(Grab/F	led Oxic	le Ore)	\$11.56/Ton
2-S	22 22 22 11	2.21	0.40	0.20	(" /]	Black "	")	\$14.80/Ton
3-S	" Tun.250'NW/Sh.	1.33	0.50	0.50	(Red.02	r/some a	ulph.)	\$22.37/Ton
4-S	12 12 12 17 TT	5.75	0.80	0.16	(Hvy.b]	k.sul.8		\$25.72/Ton
5-S	S.V.Tun.350'SE Sh.	11.50	2.00	0.06	(11 1	8	: Malach	
6-5	Cut,SS#8,Stan. Vein	3.79	0.20	0.02	(Grab/S	ul.& C	arbs)	\$13.72/Ton
SS-1	Sunset Vein/210'Levl	0.39	0.10	0.02	(X-Fiss	ure N	of Sh.)	\$ 1.76/Ton
SS-2	SS Vein/310'Lev.S.	20.75	3.00	0.02	(Covel:	ite & 1	Bl.Ox.)	\$73.38/Ton
<u>55-3</u>	11 11 / 11 11 11	3.74	0.80	0.02	(Same/a	across :	2 feet)	\$14.00/Ton
<u>SS-4</u> G	X-Cut 310'Lev.370'NE	1.92	0.40	1.00	(Au.Ve:	in, top	shoot)	\$41.80/Ton
<u>55-40</u> SS-5	310' Lev.S., Face	2.90	0.60	0.02		r. skij		\$10.56/Ton
<u>55-6</u>		12.78	2.00	0.02	(1분' W	fr. H	-W)	\$45.75/Ton
<u>55-0</u> \$5-7	17 11 11 11	0.20	0.10	0.02	(2' be	ow F-W	Gouge)	\$ 0.70/Ton
SS-8L	Lead-Zinc V, S.S.#10		0.40	0.01	19.8	3.3		\$31.20/Ton

Sunset Mine Examination Samples: Cu @17¢ incl. Frem.;Ag @71¢; Au @ \$35/ Pb @ 62¢; Zn.@ 82¢ W. W. Simon ASSAYER

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MIS Autifite Group Florence

ASSAY CERTIFICATE _19=1-0. Jan 25

M. Newton Holcow:

Sample No. Owner's Mark on Sample	GOLD		S	ILVER	TOTAL VALUE	PERCENTAGE OF	
	OZS. PER TON	VALUE PER TON	OZS. PER TON	VALUE PER TON	PER TON	COP'R IRON TIN LEAD	
		Trace		13.44	19.55	12.85	3,0
					, j) = 60-lb-per
							= 3.30 per Jon
			RY MERIPHICKEN CONTRACTOR OF A STATE OF A STA		Loss (?	7. 1/2	Assayer

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harges \$ 150

Addison N. Plant

APPRAISALS EXAMINATIONS VALUATIONS

CONSULTING MINING ENGINEER AND GEOLOGIST 1440 BROADWAY, OAKLAND 12, CALIFORNIA

ELECTRO-GEOPHYSICAL SURVEYS Feb. 1949

Mr. William O. Kay, Vice President and General Manager, Sunset Mining Company, 213 Minna Street, San Francisco 3, Calif.

Dear Mr. Kay :--

It is a matter of justifiable personal pride to me to learn that you have plans in hand to reactivate the Sunset Mine in Pinal County, Arizona, and to install more adequate machinery to sink its main (Sunset) shaft deeper and into the sulphide ore zone of the Sunset Vein. I say "personal pride" because in my 1944 report on your property I "pulled no punches" when I had surveyed it, surficially and underground, merely stating in it my technical findings and the inescapable conclusions I arrived at through close-up study of the property and adjacent and general regional geology.

Since you and your affiliates have done me the honor to name me as consulting engineer to your older or "pioneer" corporation, you can depend upon me to place and keep at your disposal all of the data and intimate knowledge on and of the property which I have, and to co-operate with you in every way I can in your refinancing program and the ensuing re-equipment needful to deeper sinking on the Sunset Vein and such lateral ore-development as shall be deemed advisable during and after the shaft-deepening.

As to vein-exploration beyond the deepened shaft, as well as to the northwest and southeast of it in that vein: As I have told you, this winter I have been working out details, costs, etc., for a diamond drilling exploration program for the Giant Jumbo lead-silver-copper-gold property nine miles west of Battle Mountain, Nevada --- working "in closed circuit" with Mr. Stanley F. O'Leary, President of the Giant Jumbo Mining Corporation, who himself is an experienced mining engineer (Stanford University School of Mines '13). Details of that program, tied in as a supplement or "codicil" to the last report made by any engineer or geologist on the property (my own of 1938) show somewhat strikingly the saving over sinking and drifting which can and will be effected in that vein-exploration soon as weather conditions in Nevada permit our taking one of several bidding contractors to the property and "setting the green light".

My file copy of that report and the 1948 revisions and recommendations are, with Mr. O'Leary's sanction, at your disposal for study. I think that a perusal will give you some ideas as to considerable potential savings in exploration of the Sunset Vein. However: The Sunset Vein is only the smaller of two true fissure veins within the Sunset Mining Company property, and only about 700 feet from the Sunset Vein to the southwest, paralleling it, is the true-fissure Arizona Mining Company Group vein, which from surface comparisons appears to be as large as the Sunset Vein and Stanley Vein combined.

It is entirely practicable to explore both the Sunset Vein and its northeast and southwest paralleling neighbor fissure veins from a single drilling machine set-up at the bottom of the Sunset Shaft. And that means from either its present bottom, at 610 feet (incline-depth) or a sump say 300 feet deeper than asof now. Such a downward-ahead drill-test, with two-way "drift" drillholes, in the Sunset Vein, together with one or more drillholes from that set-up laterally into both the Stanley and the Arizona Mining veins (i.e., "crosscutting" holes) undoubtedly will disclose, at the respective vein-depths, vital and interesting knowledge. Knowledge, moreover, which can and probably will save thousands of dollars of operating capital.

In my estimate for the Giant Jumbo drilling program I am figuring, as you will note, on several holes that may exceed 1,000 feet in length. Test-holes at the Sunset will not have to be that long.

Bear in mind, too, the fact that a horizontal "crosscut hole" from the present (610-foot) bottom level of the Sunset Shaft would tap the Stanley Vein at an (inclined) depth of at least 800 feet; and, on the other side, tap the large Arizona Mining Group vein at an incline-depth in excess of a thousand feet down from the immense outcrop on the peak southwest of the collar of your Sunset Shaft.

For the reasons inherent in the foregoing, I definitely recommend that we include some diamond-drill exploration (and <u>con-</u> <u>tractual</u>, too---under our own engineering direction---and <u>not</u> Government-bossed Bureau of Mines drilling, at the time and pleasure of the USBM field men) in our Sunset program.

From perusal of my Giant Jumbo report-supplements you will see that the overall total of my cost estimate is \$50,000. That covers an estimated total of 5,000 feet (a mile) of drill-hole. Furthermore, the "breakdown" includes \$5,000 for rehabilitation of shaft and roads that we will not have to include in Sunset estimates. Also, that \$15,000 item can be pared down somewhat in the Sunset case. However, since underground drilling is powered by compressed air, an absolutely-dependable compressor is a <u>MUST</u> for Sunset. Ditto for a mine-ventilation blower and engine. And while that old 15-HP Fairbanks-Morse gas-powered hoist <u>might</u> get by in a pinch, I frankly do not recommend that.

I <u>do</u> recommend that you inaugurate steps, as expeditiously as you can, for enlistment of a minimum of \$50,000 operating capital to commence exploration and commercial development of the Sunset Vein itself, and to initiate supplementary diamond drilling exploration of that vein and both of the larger veins. It would be "better business" to set \$75,000 as the financing objective, with the added \$25,000 as a sensible contingency margin. O'Leary, incidentally, in his own Giant Jumbo financing plans is doing precisely that; and incidentally too, while it is not itemized, you will see my own compensation for engineering supervision in the bottom item of that "breakdown" on page 21-A of my report.

The Sunset property, and the co-controlled adjoining Arizona Mining Co. group, definitely warrant expenditure of the amount of capital named above. The Sunset Mining Company's property, exclusive of the sidelining Arizona Mining Company ground and its large fissure vein, alone well warrants that much capital expenditure. With the Sunset Shaft itself already 300 feet below the "permanent water-table", all-sulphide mineralization can be expected within moderate added sinking depth. As a matter of simple fact, that shaft is virtually within the sulphide zone now; and while I have not personally been below the 310-foot level in the shaft, at that depth you already were disclosing copper values in such forms as bornite and covellite. I found also spots of chalcocite at that depth, and evidence at one spot of cuprite and tetrahedrite. All rich copper ores. And they did not get there from above.

The Sunset has one thing in common with the famous Magma Mine--in the Sunset Vein there have been associated gold values of a magnitude to warrant belief that recovered byproduct gold will go far towards footing the bills for recovery of commercial copper values. And the gold values disclosed in the Stanley Vein 550 feet northeast of the Sunset Shaft, in that crosscut, warrant that belief for that vein as well. It probably will hold good also for the large Arizona Mining Group vein.

Recent sharp rises in the market prices of base metals are definitely a favorable factor for Sunset. Demands of Industry plus war-preparedness stockpiling make this a very favorable time to make a definite start towards getting Sunset into commercial production. And as to its paying worth-while financial returns to those who elect to "sit in" with you by co-investment, there is no doubt in my mind whatever---given adequate refinancing on the lines suggested, conservative business management, and sound engineering direction of operations.

You and your associates may count upon me to co-operate with you to the fullest in your getting such a program financed and under way. I said five years ago, and I repeat now, that the Sunset can be developed into a major Arizona producing mine. With your dead wood cleared, and an operating treasury set up, you will be definitely on your way to such a status.

Addison M. Plank

ANC/mm

THOMSEN LABORATORIES 425 Potrero Avenue San Francisco 10, California

HEmlock 1086

January 25, 1947

Mr. Joe Balocchi East Bay Glass Company 621-6th Street Cakland, California

My dear Joe:

Pursuant to your request for a written statement covering my various trips to your Pinal County property and my opinion as to its merits I am embodying such matters in what is actually a synopsis of what has already been conveyed to you by word of mouth.

The property embrases a block of ground approximately a mile in length with a width of about half as much. It is situated in the western foothills of the Pinal Mountains, and occupies approximately the center of a small area of Pinal Schist some three miles in diameter from which the covering rocks have been removed by erosion. This small area has been subjected to a very thorough scrutiny and it is in every way similar to the nearby copper mines, though necessarily the actual type of ore deposit presents its own characteristics and is quite diverse from that of either Niami, Ray, or its nearest neighbor, Magna.

The genesis of the ore deposits is quite simple. The bedding planes of the Shist constituted lines of weakness in the strate and in the volcanic disturbances to which the entire terrain has been subjected such lines of weakness became the seat of extensive movement with consequent shattering of the rock and the formation of extensive zones of brecelation. Such shattered rock was then infiltrated by the ore bearing on pas with consequent deposition of cooper-lead zinc minerals accompanied at times by considerable quartz and at times virtually without such silicification. It follows that these zones, properly called "veins" conform in strike and dip with the Pinal Schist. Where by caprice of nature much quartz accompanied said mineralization the resultant veins crop boldly and form the only really distinctive feature of the landscape. Where said quartz is sparingly present the veins do not crop but instead are reprosented by intensely leached and altered wein matter from which the copper has all but vanished. Contrariwise, the quartz croppings often show in addition to the customary oxidized copper minerals vestigial rermants of primary sulphides of copper, lead and zinc, accidentally preserved by an impervious envelope of silica. At this point it may be well to reiterate a statement which I have frequently made to you to the effect that when there is evidence of the former presence of copper in an outcrop the complete removal of said copper is one of the best "indications" of good ore in the zone of secondary enrichment. Such removal of copper is everywhere in evidence in the present surface exposures of the veins in this arous

I wish to point out the sellent subtications between the nearby mines and your property. The Dog-balan type is a manualization of the county rock itself result to be were the contract of the case of supplementary voin. These voins are roughly vertical and cut the badding planes of the Schist, while yours conform to said badding planes.

The presence of lead and zinc minerals in the outcrops of your veins suggest, as in the case of Magma, that we are considering the top rather than the bottom phase or ore deposition, and this observation together with the great horizontal extent of the veins augur that exploration will reveal large and permanent bodies of ore. Again, unlike Magma, you are confronted with the presence of a great many veins, at least eight having been found sofar. I confidently predict that many more of the same type will be encountered for, as already stated, the surface exposure is determined by the caprice of quartz deposition, not by mineralization in general.

Another distinction between these large copper producers and your own property is the relatively large gold content everywhere encountered. It is rather phenomenal that in the shipments from the ore pocket, accidentally preserved for you above the 310 level, the economic value of the gold is roughly on a par with the copper content. A high silver value, such as gave the original name of "Silver Queen" to Magma, was the result of secondary enrichment and accidental preservation of pockets of said secondary zone in what had become a leached and empoverished zone. In your case we are dealing with residual gold forming a part of the primary deposition of ore. In only one place have I seen any sign of secondary enrichment, namely in a small pocket of pur copper glance extracted from the Stanley Vein just below the 310 level.

If I seem to speak with some degree of familiarity about the large nearby copper mines in making such comparisons, please bear in mind that I was part of such early Arizona development and 'now the surface of said properties as they were before extensive development. I traversed Ray while in the initial diamond drilling stage and before and an associate of mine actually hold a contract on the "Silver Queen" which is now Magma. In view of such familiarity I cannot help but say that in spite of the very small amount of development on your property you have every right to believe that you have the makings of a major Arizona Copper mine, and that is high praise indeed. I also believe that gold will form a more important part of the value in said one than in any of the present Arizona producers of magnitude, if not better, than was the case in any of the nearby copper mines.

Thus reading the history of ore deposition from the original stage through leaching and secondary enrichment I am confident that the secondary zone at or near water level will not fail to produce ores of economic value. What the primary ores will show is more dubious, but Arizona has yet to produce a single exception to the rule that such "indications" as you have mean pay ore at water level.

Below such water level I believe that you will encounter a complex of copperlead-zinc with supplementary values in silver and above all, in gold. At still greater depth you will probably experience a gradual elimination of silver, lead and finally zinc with the orebodies taking on a simpler character and with values chiefly in gold and copper. It is not saying too much to state that the phenomenon of secondary enrichment has been the dominant factor in preparing <u>ALL</u> of Arizona's copper mines for man's exploitation even though extensive work in the primary zone has also disclosed primary orebodies of workeble grade.

All this leads to the question: "Where may we expect this secondary zone?" To put it otherwise, how deep is "water lever?" To this I must answer that no man can tell, it is only ascertainable by work. When we stood at the Sunset shaft on our first visit together, I said: "It may be found very soon, or it may be down a thousand feet, or it may be deeper." On the accompanying maps that give a profile through the Sunset shaft you will see that you are even now but 300 ft. vertical below the deepest point laid bare by nature's erosion. That is not very much.

Of course the cheapest way, and the fastest, to determine the depth of this sulphide zone is by the use of the diamond drill. On the other hand it is not too promising as a means of showing up ore, that is, unless it be used in a very extended and expensive campaign. The testimony of a few cores can give a black eye to any property or can make the owner oversanguino. Orebodies are extremely irregular both as to size and value when taken by the foot and a core is a poor sampling tool compared to drift or raise. Therefore, it you elect to use the drill I would say to use it only to determine the depth to which you must go to intersect one of your veins in the sulphide zone. After that it is time to sink your shaft to that pre-determined depth and go after your ore in orthodox fashion. If you elect to do this, I further recommend that you purchase a drill, a matter of but some \$2,000.00. and do your own drilling. By contract, you are not able to vary your campaign as may be indicated by the drill from day to day. I also suggest that you spond some \$500.00 for an assay outfit so that one of your own men can follow the "sludge" daily and report directly, thus oliminating the publicity attendant upon connercial work as well as the liability of carelessness and delay. In this manner you can do drilling at perhaps as low as \$2,00 per foot or even less.

However, the cost of this work is really money lost. There is no substitute for the plan I gave you on our initial visit, namely, to sink deeper where you are. In doing this, every dollar expended is permanently well invested towards the ultimate goal of taking out pay ore. In doing such work there is nothing more important than to provide proper equipment. Tour past high costs are due principally to the fact that your machinery is either inadequate as to size or else worn out. Portable equipment is very handy at the start but there is no substitute for heavy duty machinery when there is a job of any length ahead.

I would avoid all electrification. That is too expensive. Instead I would install an over-size Diesel driven compressor, and put your hoist on air. Any good steam hoist can than be installed and will function very well for both raising and lowering men on power. That the electric hoist does not do, and I am a crank on underground safety. I priced a "government surplus" hoist, brand new, and good for 2500 ft. for \$1,000.00. A compressor with a capacity of 650 ft. of air per min. at \$1,500.00. These prices are f. o. b. San Francisco. Hoist and Diesel are not new but in excellent shape. These are your principal items.

With such equipment you can go to water lever, and the ore will be there waiting for you, for be assured nature took care of that a long, long time ago. It is the long way to look at things, but it is the only right way. The drill will give you some facts and perhaps encouragement. This latter way will get you to your ore in shape to begin taking it out. It is the only way I personally have ever used.

If there is any additional information I may possess, be assured that it is always at your disposal.

Sincerely

m 3 ===

INCORPORATED UNDER THE LAWS OF CALIFORNIA HOME OFFICE TELEPHONE TEMPLEBAR 8646 MINE OFFICE, BOX 265 SUPERIOR, ARIZONA

OFFICERS JOSEPH L. BAIOCCHI PRESIDENT WILLIAM O. KAY VICE PRESIDENT AND GENERAL MANAGER F. D. GUILES SECRETARY-TREASUREF SUNSEI COPPER COMPANY 621 SIXTH STREET OAKLAND 7, CALIFORNIA DIRECTORS JOSEPH L. BAIOCCHI F. D. GUILES HARRY F. HUBER CLAUDE E. INSKEEP WILLIAM O. KAY

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1045

1104 Bryant Street-San Francisco 3, California.Nov.23-1946

Department of Mineral Resources 304 Home Builders Building Phoenix, Arizona.

ATTN.Mr.Chas.H.Dunning;

Replying to yours of the 7th inst (delayed account absence from the office), in the matter of an extension of a premimum price plan for metals.

Should this "extension" be given the mine operators it would facilitate the mining of MORE so called "low Grade" Copper-lead-zinc ores, of which the SUNSET undoubtedly has quite an abundance, and the same goes for MANY other mines throughout the United States.

The copy you mailed us (and appearing in the November PAY DIRT) is well written and explains the situation very thoroughly (and truthfully).

As to the SUNSET mine, had we been in a position to receive this guarantee of the "premimum" we would have shipped considerable ore this year to the Smelter at Hayden.

As it is we have been doing considerable development, have sunk or Sunset shaft an additional 300 feet (now down 600 feet), with drifts on the 400 and 500 feet levels.

It is our intention to start a diamond drilling campaign next month to try to contact the Sulphide zone.

Best regards to you, Mr.Dunning, and here is wishing you GREAT success in your endewors in this line, I will be at the Sunset mine soon after the first of next month, SO, please

bear in mind that should you have occasion to get up that way we will see to it there will be a good dinner awaiting you,

Sincerely yours,

W.O.Kay

NAME OF MINE: SUNSET		DISTRICT: METALS: CU /		
OFERATOR AND ADDRESS:	MINE STA		//	
DATE:	DATE:			
5/1/44 W.O.Kay, Florence	5/1/44	Developing		
Box 265, Superior		•		
		i -		
•				
1. Sunset Mine		and the second sec		
2. Pinal County, Arizona	in the second			
3. C. E. Inskeep	,			
4 W. S. Jones				
5. Examined December 22, 1948				
5. Low grade copper-gold ore			enta titta to	iustify
5. Low grade copper-gold ors 7. "It is my opinion that the	ere is noth	ing exposed at	aw is proving	up what
	SUCTION TOTAL	C Garrie	-	• •
will undo stedly be a smal	Ll tonnage o	I TOM REACH OIS	•	
9.				

★• The Sunset Copper Co. expects to resume work at an early date on 17 lode claims northeast of Florence. The mine has been opened by a 600-ft. inclined shaft which will be sunk to contact the sulphide zone.

1

contact the sulphide zone. Gune, QL Engineering and Mining Durnal-Vol. 149, No. 6

> ★Reactivation plans of the 'Sunset Mining Co. near Superior in Pinal County call for unwatering the lower half of the 610-ft. Sunset shaft and purchase of more adequate machinery and equipment at the shaft collar. Operators plan to drive at least another 300 ft. in and around the Sunset vein, and conduct further diamonddrill exploration to prove up orebodies in depth in the Sunset vein and the Stanley vein which intersects it.

> in depth in the Sunset vein and the Stanley vein which intersects it. ENGINE THE INC. THE START START OPERATION AND A START START OPERATION AND A START START START START START START START START OPERATION START START OPERATION START START START START OPERATION START STAR

American Copper Co. Project: Exploration for new orebodies on 17 claims of old Sunset Mine near Superior. Plans call for the unwatering of a 600-ft. shaft and sinking an additional 300 ft. E. A. J. - 4-57

NAME	OF COMPANY SUNSET COPPER COMP	ANY	
	OF MINE SUNSET		
	Production - January 1st to June 30, 1	.946, inclusive.	
(1)	Producers Shipping ore direct to smelte producers operating their own mill use	ers or to custom mills use Column	No. 1;
	COLUMN NO. 1	COLUMN NO. 2	
	Tons % Cu % Pb % Zn	Tons % Cu % I	pb % Zn
	Crude Ore Only development work	Copper Conc. Lead Conc. Zinc Conc.	
(2)	Average Price Received for Metals in	Above Production	
(~)	This to be the total of the ceiling ;		
	Copper d/lb.	Conn. Valley as base N.Y. as base East St. Louis as base	
(3)	What do you estimate your production 30, 1946, if the metal price had bee Cu 14 3/8¢/1b. Conn. Valley; Lead St. Louis (with no premiums)		
	COLUMN NO. 1	COLUMN NO. 2	
	Crude Ore Tons	Copper Conc. Lead Conc. Zinc Conc.	Tons Tons Tons
(4;	30, 1946, if the metal prices had s		June
	Cu $16 \neq /1b$. Conn. Valley; Lead $11 \neq$ St. Louis (with no premiums)	×	
	COLUMN NO. 1	COLUMN NO. 2	
	Crude Ore Tons	Copper Conc. Lead Conc. Zine Conc.	Tons Tons Tons
((b) Would such a plan cause you development program? If (c) What effect would such a pl	to expand your exploration-	ES Le eserves? lthy

DEPARTMENT OF MINERAL RESOURCES STATE OF ARIZONA FIELD ENGINEERS REPORT

Mine Gilbert Claims (Nichols)

Date 1-30-63

District Mineral Hill District, Pinal County

Engineer Lewis A. Smith

Subject: Interview with Woody Nichols in Globe.

Mr. Nichols is preparing to do assessment and other development work on his Gilbert Claims south and east of the Ajax. He plans to do some development work on a vein containing copper oxides in the outcrop. The principal mineral is chrysocolla. The property also has veins showing lead-silver and one that shows fair gold. The veins are in schist cut by porphyry dikes which look like andesite. The veins generally strike NW-SE at small angles. Mr. Nichols says there is a belt, with the Reymert at the north and his at the south, in which the mineralization is generally similar. This includes the Reymert, Apache, Woodpecker, Ajax, Tom Boy, Sunset, and Nichols from north to south. The belt to the east of this includes the Talley-Wall, Silver Belle, Martinez and others. Nichols thinks the east belt may have been faulted from the south end of the west belt. (This would involve a tremendous horizontal component.) Nichols has a tentative arrangement with Waughtel to mill his lead-silver ore, if the new mill proves successful.

			Filing Information
te January 20-1945		Tile Su	stem
me of Mine Sunset Mini	ng Company	File No)
wner or Operator W.O.K	ay	mi in al	art to be used for gallons of gas- equired per month.
ddress Box 265- Superior,	Arizona		
ine Location Mineral Hil	ls-Pinal Coun	zy- Arizona.	
RESENT OPERATIONS: (check X))	~	
ProductionX.; Developme			
Experimental (sampling)	; Owner's occasional	trip;	
Other (specify)	eloping and sh	ipping copper.	<u>o re</u>
		Tons	
RODUCTION: Past and Future.	000		ITT monto
	200	tons ore- 100	H Waste
Approx. tons last 3 months		tons ore- MUC	
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Owner or Operator Sumper Ma	aning of the line	This chart to oline require	be used for gallons of g d per month.
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Mine Location			
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Experimental (sampling)	; Owner's occasional tr	ip;	
Other (specify)			
Other (specify)			
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1/20/45		Fi	ling Information
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STATUS OF DORMANT MINES

MINE NAME:	the process industrial to the Party	SUNSER LINE	ant Standard - America Campania Campania and America Antonio Antonio Antonio America America America America A
LOCATION:	11T	NERAL HILLS DISTRICT PINAL COURTY-ARIZO	Web, charge concernent algorithm and the second statistical second statistics
OWNER AND/O	R LEA	SEE: SUNSET MINING COMPANY	والمعمولية والمعاولة والمعاولة والمعاولة والمعاولة والمعاولة والمعاولة والمعاولة والمعاولة والمعاولة
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		DUCTION (Year of 1945):	
С	COPFEF	R NONE Lbs. LEAD NONE	
Z	ZINC	NONE Lbs. (OT LER) NONE	14445-2019(*****1-17)11
CHECK THE C	CHIEF	CAUSE OF YOUR DISCONTINUED PRODUCTION: INSUFF	ICIENT FINANCES
((((name each to get star amount with	(B) [(C) [(D) [(] e ore meta rted) h a l	Easily available ore worked out. NO Increased costs, but have quantity similar to pas Foo close a margin to develop more cre. NO We shipped approximately \$46,000.00 Ore G American Smelting & Refining Co, Plant- Ha Including 5 cars to Magna Smelter) from 1 ready to mine please give your estimate of the a 1) that you could produce in one year (after allo if there were premiums above present market pric ow premium, and amount at a high premium; such as	FROSS to yden, Arizona 939 to 1943 amount of metal owing 60 days ces. Name s:
(Coppe Coppe	r at $22\frac{1}{2}$ ¢ plus 5¢ premium 1,000,000 r at $22\frac{1}{2}$ ¢ plus 10¢ premium 1,500,000) Lbs. O Lbs.
() [*]	t pr	tisfied could ship MORE then 1,000,000 Co esent price (24g cts) plus 5 cts 1b prem: mum lo cts 1b.	opper within a year imum-and DOUELE if
If you do	not h	ave ore ready to mine please discuss the followi	ng:
	(A)	Do you think a reasonable development program wo a justified tonnage of commercial ore at above m	uld produce ine?
X	ms-	Most CEBTAINLY-	Service, when the service of the
	(B)	With a premium price (guaranteed for one year) c carry out such a development program yourself? premium?	ould you What
		if had a 10 ots 1b preminum guaranteed f	<u>or ONE</u> year an

If had a 10 cts 10 preminum guaranteed for unke year and satisfied we could arrange to start operations at once (probably within not more than 60 days from now) would install a larger compressor and Hoist and take less than 60 days to unwater the shaft (C) If you could not do this yourself, would a quick drilling program by some government agency (at government expense) be sufficient? TES-

Would HIGHLY recommend Diamond Drill from bottom of our present

610 Sunset Shaft- ALSO continue develop from faces of our FOUR Levels.

(D) Or would you prefer a loan plan similar to the arrangements during World War II?

The loan "Plan" might bring QUICKER results, although personally would prefer the BONUS plan and we try to secure the necessary finances, we are open to ANY suggestion along this line, we KNOW we have the ORE and want to get busy QUICK.

How about a combination plan in two stages such as follows?

- Stage 1: Government engineers review project and, if a little drilling appears to be justified and a preliminary key to the situation, such drilling program to be agreed upon by owner and government engineer, paid for by the government, but let by contract. Thats a GOOD idea,
- Stage 2: If results of drilling (or without drilling) justify underground development and/or production equipment, same to be obtainable via a mortgage loan on property. THAT would be G.K.

Please discuss the above: ____As the majority stockholder I really

would like to have the Government come in with us on a loan basis

RECAUSE am satisfied we would produce the ore in LARGE Quantity	MCAUSE am satisfied we would produce the ore in LARGE quanti	1716
---	--	------

and pay off the mortgage in a VERY reasonable time .Private

capital is "Cautious" and VERY "Delaying" I SHOULD know from

my past THREE years experience trying to get "Capital"

IF the Government REALLY wants COPPER and LEAD, they MOST certainly

 can GET it out of the SUNSET MINE and VERY economically - FIRST ,
 SUGGESTIONS: Many Mining Engineers state we HAVE the ore-SECOND, needs practically NO Timbering, THIRD , Close to Smelters, FOURTH, Miners AVAILABLE as living conditions BETTER than at ordinary mines.
 We will cooperate in EVERY manner possible. We NOW have Jack-Hammers-Stoppers, Pumps, Rails- Cars, Pipe-good Mess Hall-Shower Room and sufficient "Bunk Houses" What we need is a larger Compressor, say a 315 cu, ft, or 500 cu, ft. and a larger Hoist.
 DATE September 5-1950 SIGNATURE MAXAMENT

Manager

SURSHT LINE

DEPARTMENT OF MINERAL RESOURCES
News Items
Date March 13, 1940,
Mine Mc Auliffe Group.
Location 16 Mi. NE of Florence
Owner A.H. Brunenkant
Address Florence, Arizona.
Under option to
Operating Co. Sunset Mining Co.
Address Florence, Arizona,
Entry (
Pres.
Genl. Mgr. Stanley A. Wardle
Mine Supt.
Mill Supt.
Principal Metals Gold, copper, lead, silver
Men Employed ??
Production Rate Not producing
Mill, Type & Capacity
Power, Amt. & Type

Signed -23 (Over)

DEPARTMENT OF MINERAL RESOURCES STATE OF ARIZONA OWNERS MINE REPORT

	Date January 11, 1940
Mine Thomas McAuliffe Group	and a space of the second second of the second s
District Mineral Hill Mining District	Location 17 mi. N E of Florence
Former name	
Owner A. A. Brunenkaut	Address Box 162, Florence
Operator	Address
President	Gen. Mgr.
Mine Supt.	Mill Supt.
Principal Metals Silver, lead, gold, copper	Men Employed
Production Rate	Mill: Type & Cap.
Power: Amt. & Type	
Operations: Present Property inactive at presen	at.

Operations Planned Turther development.

osesial tradama Revenue Find

Number Claims, Title, etc. 9 unpatented claims.

Description: Topog. & Geog. Rather steep but not wery high hills and washes. Vegetation sparse.

Mine Workings: Amt. & Condition 1 - Inclined shaft - approx. 300' deep - water stands 60' 1 - " " " 20' " (from collar. 1 - Winze " 45' " Approximately 600' of tunnel Various stopes & shallow surface cuts All workings open except deep shaft. and the second second

Automa Thirese The second states were an active second as a second second second second second second second se

all Handle borrs.

Geology & Mineralization Schist is the predominating country rock. The veins are formed along shear zones in the schist. Width of veins is from 5 to 20 feet. Values are in lead, silver, gold and copper.

Ore: Positive & Probable, Ore Dumps, Tailings Tonnage is undoubtedly large, although not blocked out.

Mine, Mill Equipment & Flow Sheet No equipment.

Malle Luque en elleve

Road Conditions, Route Road to property good except in rainy season. Inquire from owner for directions.

Water Supply Domestic supply available. No attempt has been made to develop any additional supply.

Brief History Property located about 45 years ago. Ore has been shipped, but records of shipments were destroyed by fire.

Special Problems, Reports Filed

Remarks

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

*Se studies where a construction of the state of the state of a produced where the state of the

Competence in the second territory second

Signed Alva A, Brunenkaut

Use additional sheets if necessary.

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MT-30+3

DEPARTMENT OF MINERAL RESOURCES STATE OF ARIZONA OWNERS MINE REPORT

January 11, 1940 Date Mine Thomas ME Auliffe Group Location 17 Miles N.E. of Florence District Mineral Hill Mining District Former name A.A. Brunenkant Address Box 162, Fr Wy utermine Another March Ma Owner Operator Address President Gen. Mgr. Mine Supt. Mill Supt. Principal Metals Silver, lead, gold, copper Men Employed **Production Rate** Mill: Type & Cap. Power: Amt. & Type

Operations: Present

Property inactive at present

Operations Planned

Further development.

Number Claims, Title, etc.

9 Unpatented claims

Description: Topog. & Geog.

Rather steep but not very high hills and washes. Vegetation ppanse,

Mine Workings: Amt. & Condition

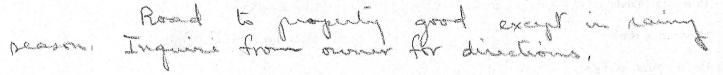
1- Indined Shaft- approx. 300' deep - water stands 60 1- Winze Approximately 600' of Tunnal Varyovers ploples + placely purposes ento All workings open except deep placet.

Ore: Positive & Probable, Ore Dumps, Tailings

Mine, Mill Equipment & Flow Sheet



Road Conditions, Route



Water Supply

Remarks

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

tor preclasson on prese oursing for these

Bundary 9.1 Signed.

Use additional sheets if necessary.

Sunset Mining Company

INCORPORATED

Atorence Junction, Asizonaxxx

213 Minna Street-San Francisco 3, California- September 4-1950

Mr.Chas.H.Dunning Department of Mineral Resources Mineral Building, Fairgrounds, PHOENIX, ARIZONA.

Dear Mr. Dunning;

Herem it is-more than a MONTH- since your letter "To Operators of Formerly Productive Small Mines" and dated July 29,1950 was received at my office. I have been out of the City for about six weeks and JUST to-day came across your letter.I have been trying for the past THREE years to interest capital in the SUNSET MINE- this last trip was also for THAT purpose- have had all sorts of promises etc, in fact one partystates he will go to the property last of this month t@ "look it over" and he has "\$60,000.00 Backing", BUT I have had several concerns and individuals tell me they were interested and would "SOON" come in with us, and HERE, you have HIT the nail on the head, so to speak, that is, IF your Department can persuade the POWERS THAT BE to SINCERELY investigate the SUNSET MINE, located in the Mineral Hills District, Pinal County, Arizona, I am confident we can show them we HAVE JUST the Property that justifies their financial aid.

Since you and Mr.McFarland visited the SUNSET MINE, I think it was the Fall of 1944, we have completed our cross cut off the 310 Level ALSO continued our SUNSET Shaft an additional 300 feet, so that we are now down to a depth of 610 feet (on an ancline of approximately 40 Degrees).

We started operations at the mine early in 1939-and up to December 1940 had shipped about \$36,000.00 of ore to the American Smelting & Refining Company Plant at Hayden, Arizona. This was from the surface to the 210 Level. After we reached the 310 level the money "ran out"-Then I arrived at the property the afternoon of December 7-1941 (Pearl Harbor Day)-took several weeks to get the machinery "repaired" etc, but within ninety days (or sooner) I had unwatered the mine and from a stope from the 310 to 210 level I shipped about \$10,400.00 Ore to the Hayden Smelter. Then the "Usual" thing insufficient financehowever, we did finish the Cross Cut for a distance of 420 feet, and at a point about \$70 feet in this cross cut we found a good vein of GOLD assaying 6.52 OUNCES, with a little Silver and Copper.

All we need NOW is a better Compressor (either 315 cu,ft or 500 cu.ft,Diesel operated) also a larger Hoist with sufficient power and Cable to go at least 1500 feet, and THEN sink our shaft to the SULPHIDE ZONE, this may be an additional 50 feet or 250 feet, we should Diamond Drill from the bottom of the 610 shaft to locate this SULPHIDE ZONE-I am SURE that with \$25,000.00 we can make a BIG Dividend Payer out of the Sunset Mine-better, of course, to have double that, viz \$50,000.00 and IF you can help us secure that money we will give any one furnishing same a ONE-THIRD Interest in the mine.

DEPARTMENT OF MINERAL RESOURCES STATE OF ARIZONA FIELD ENGINEERS REPORT

Mine Sunset

Date February 20, 1963

District Mineral Hill Dist., Pinal Co.

Engineer LewisA. Smith

Subject: Brief mine visit and previous interview with Woody Nichols (Globe)

Location: Approximately Sections 1-2, T. 3 S., R. 11 E.

Access: 4 miles E of Florence Junction on Hwy. 60-70, thence 12 miles on a graded county road to the southeast. This county road continues on south to Price and Florence via Martinez Canyon. (It is 2 miles south of the Ajax and Woodpecker mines and is adjoined on the south by the Gilbert Group, also owned by Nichols.) The road was severely gutted by recent torrential rains.

Owner: Woody Nichols, Globe, Arizona.

Minerals: (1) lead-silver (2) copper, gold and silver

Work: The main shaft is reported to be 200 feet deep but is partially filled by water at present. According to the caretaker who had worked in the mine, the mine had several hundred feet of lateral workings and some stopes.

Geology: From the meager outcrops the main vein traverses schists that are strongly iron stained near the outcrops. It strikes about NW-SE and is intermittently exposed under a strong gossan or "iron cap."

The dumps show some quartz, galena, anglesite, cerussite and calcite, and these dumps are extensive.

North of the 200 foot shaft, approximately 300 feet, there is an undeveloped vein that is somewhat transverse to the main vein. This vein is exposed on a sharp ridge in a few separated small outcrops and from these it was estimated that it trends NW but at a greater angle than the main vein. It appears where observed to be about 3-5 feet wide and contains chrysocolla, malachite and calcite with some quartz. Nichols reported that it runs up to 22 per cent copper, but would average much less. He plans to open it up before long.

It is planned to visit this area later when the roads are more accessible.

Conference with Woodrow Nichols, owner, 11/9/66 - Mine Visit afterward.

Nichols reported further bulldozer work north of the old Sunset workings and the making of a road to the ridge crest. At the top a bulldozer cut exposed oxidized copper in a vein that is transverse to the main Sunset vein. The exposed part of this vein appears to be about 4 feet wide. Nichols plans more work before the winter is over. The cut is up to 6 feet deep now, whereas in February it was shallower.

MEMO LAS 11/9/66

Have no idea what area de is talting about. Perhaps an inquire, to him Or the)

P. O. Box 1074 Dominion Hotel Globe, Arizona March 4, 1964

Gr/mour

Shattock Den Mining Corporation Humbolt Arizona

ATTENTION: Mr. D. M. Kentro

Dear Sir:

Vaul:

I am writing in regard to mining property I have in the Mineral Hills Mining District. I have one of the old mining holds in that area. It lays west of the Silverbelt Martinez mine. The property is unpatented mining claims dating back behind the first World War, set by two of my brothers and one half-brother. The property covers the Old Sunset Mine the McKalouff and Gilbert property. I have around 35 claims I am in on.

The Old Sunset working at the present time. I have 15 or 18 tons of good Malacite and Pyrite ore stacked up off of the big ore vein, I have uncovered with my tractor, which I think is the main ore lead instead of the vein the Sunset works is on. I have it proven in place for a good one-half or three-quarter mile by tractor.

This property lays in a southerly direction from the old Raymart-Wood Pecker and Ajax mines, a very highly mineralized area. The Gilbert property, my half-brother's, was set on a 7 to 11 oz. gold vein is still in place and not much work on it. There are also lead and silver.

From the old shipping records on the Sunset I saw at the Magma office, the gold carried that property.

If interested in this property, I would appreciate your contacting me,

Yours very truly,

Warding Michola Woodie &. Michols

INCORPORATED UNDER THE LAWS OF CALIFORNIA HOME OFFICE TELEPHONE TEMPLEBAR 8646 MINE OFFICE, BOX 265 SUPERIOR, ARIZONA

OFFICERS JOSEPH L. BAIOCCHI PRESIDENT WILLIAM O. KAY VICE PRESIDENT AND GENERAL MANAGER F. D. GUILES SECRETARY-TREASURER

SUNSET COPPER COMPANY 621 SIXTH STREET OAKLAND 7, CALIFORNIA DIRECTORS JOSEPH L. BAIOCCHI F. D. GUILES HARRY F. HUBER CLAUDE E. INSKEEP WILLIAM O. KAY

NOV 25 1946

846

1104 Bryant Street-San Francisco 3, California.Nov.23-1946

Department of Mineral Resources 304 Home Builders Building Phoenix, Arizona.

ATTN. Mr. Chas. H. Dunning;

Replying to yours of the 7th inst (delayed account absence from the office), in the matter of an extension of a premimum price plan for metals.

Should this "extension" be given the mine operators it would facilitate the mining of MORE so called "low Grade" Copper-lead-zinc ores, of which the SUNSET undoubtedly has quite an abundance, and the same goes for MANY other mines throughout the United States.

The copy you mailed us (and appearing in the November PAY DIRT) is well written and explains the situation very thoroughly (and truthfully).

As to the SUNSET/mine, had we been in a position to receive this guarantee of the "premimum" we would have shipped considerable ore this year to the Smelter at Hayden. As it is we have been doing considerable development,

As it is we have been doing considerable development, have sunk of Sunset shaft an additional 300 feet (now down 600 feet), with drifts on the 400 and 500 feet levels.

It is our intention to start a diamond drilling campaign next month to try to contact the Sulphide zone.

Best regards to you, Mr.Dunning, and here is wishing you GREAT success in your endeavors in this line, I will be at the Sunset mine soon after the first of next month, SO, please bear in mind that should you have occasion to get up that way we will see to it there will be a good dinner awaiting you,

Sincerely yours

W.O.Kay

NAME OF COMPANY SUNSET COPPER COMPANY

NAME OF MINE SUNSET

(1) Production - January 1st to June 30, 1946, inclusive.

Producers Shipping ore direct to smelters or to custom mills use Column No. 1; producers operating their own mill use Column No. 2.

COLUMN NO. 1	COLUMN NO. 2
Tons % Cu % Pb % Zn	Tons % Cu % Pb % Zn
Crude Ore Only development work	Copper Conc. Lead Conc.

Zinc Conc.

(2) Average Price Received for Metals in Above Production

This to be the total of the ceiling price plus premiuns.

Copper	¢/lb. Conn.	. Valley as base	
Lead	¢/1b. N.Y.	as base	
Zinc	¢/lb. East	St. Louis as base	

Cu 14 3/8¢/1b. Conn. Valley; Lead 8.25¢/1b. N.Y.; Zinc 8.25¢/1b East St. Louis (with no premiums)

COLUMN NO. 1		COLUMN NO. 2	
Crude Ore	Tons	Copper Conc.	Tons
		Lead Conc.	Tons
		Zinc Conc.	Tons

(4) What do you estimate your production would have been, January 1st to June 30, 1946, if the metal prices had been: 500 tons (or more)

Cu $16\frac{q}{lb}$. Conn. Valley; Lead $11\frac{q}{lb}$. N.Y.; Zinc $9.50\frac{q}{lb}$. East St. Louis (with no premiums)

Crude Ore Tons Copper Conc. Tons Lead Conc. Tons	COLUMN NO. 1		COLUMN NO. 2		
Lifte Colle.	Crude Ore	Tons			

- (5) If a metal Conservation Price Plan, similar to the present Premium Price Plan, were made permanent for at least five years,
 - (a) What would your yearly production of ore or concentrates be:
 - (b) Would such a plan cause you to expand your exploration- YES development program? If so, how much? at least double
 - (c) What effect would such a plan have in increasing your ore reserves?
 - (d) In view of low tariffs, how would such a plan promote a healthy
 - mining industry? making it possible to make at small profit on our proven tonnage of low grade ore

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DEPARTMENT	OF	MINERAL	RESC	DURCES	. 7
		TO OPA O			

Date January 20-1945	Filing Informa
Name of Mine Sunset Mining Company	File System
Owner or Operator W.O.Kay	File No.

Address Box 265- Superior, Arizona.

Filing	Information

- 1 C C	
3	This chart to be used for gallons of gas
	oline required per month.

Mine Location Mineral Hills-Pinal County- Arizona.

PRESENT OPERATIONS: (check X)

Production...X.; Development X....; Financing.......; Sale of mine......;

Experimental (sampling); Owner's occasional trip.....;

Other (specify) Developing and shipping copper ore

PRODUCTION: Past and Future.

Approx. tons last 3 months	200
Approx. present rate per 3 months	We thi
Anticipated rate next 3 months	 Hope n
If in distant future check (X) here	

200 ton:	s ore.	- MUCI	H was	te	
We think	more	than	300	tons	ore
Hope many	time	more	than	abot	re

Tons

EQUIPMENT OPERATED:

Туре	Quantity or Horse Power	Miles or Hours Per Month	Gallons Required Per Month
Personal Cars Bui	lck Sedan	varies	varies
Light or Service Trucks	Ford	11	11
Ore Hauling Trucks	We contract f	rom others to	haul our ore
Compressors		d and Sulliva	<u>n</u>
Other Mine or Mill Eqpt.	Hoist and Blo	wer .	

PRODUCT PRODUCED OR CONTEMPLATED: Name metals or minerals.

Copper with some Gold and Silver

REMARKS:

We expect to contine ACTIVE development, in two

good ore and expect same in a third operation within laces

the next few weeks , or less.

ARIZONA DEPARTMENT OF MINERAL RESOURCES

	REPORT TO ACTIVE MINING		
1/20/40	alignar		Filing Information
ate	An in Co		m
ame of Mine	manory -0		<u></u>
wner or Operator	Chi P	This chart	to be used for gallons of gas ired per month.
ddress	superior on	J onne requ	
ine Location Manaral	Kulls, J.	not bearly	Closing
			*
RESENT OPERATIONS: (check X			1
Production; Developm			and the second s
Experimental (sampling)			
Other (specify)			
RODUCTION: Past and Future.		Tons	
Approx. tons last 3 months	20	0	
Approx. present rate per 3		0	
Anticipated rate next 3 mor	ths	0	
If in distant future check (X) here	<u>/</u>	
OVERATIVE OPERATED			
QUIPMENT OPERATED: Type	Quantity or Horse Power	Miles or Hours Per Month	Gallons Required Per Month
	Horse Fower	rer month	i er month
Personal Cars		······	
Light or Service Trucks			}
Ore Hauling Trucks	9R J Sulling		k 1400
Compressors	Houst J Bl		man had
Other Mine or Mill Eqpt.	110000 \$ 40108	a <u>nna</u>	
RODUCT PRODUCED OR CONTE	MPLATED: Name meta	als or minerals.	
EMARKS:			
Constration in	2 good p	welnes ano	mary
The Course was and and	product	the Company Company	lise blig
milleans configer			1
mitesee coffee			

DEPART		ERAL RESOURCES	
	REPORT TO ACTIVE MINING		
Name of Mine Sunset	18/44	File System	Filing Information
Owner or Operator	Superio	This chart	to be used for gallons of gas- red per month.
Mine Location	1 miles ous	t of Superior	
PRESENT OPERATIONS: (check X)			
Production X., Developmen	ntX; Financing	; Sale of mine;	
Experimental (sampling)	; Owner's occasional	trip;	
Other (specify)			
PRODUCTION: Past and Future.		Tons	
Approx. tons last 3 months			
Approx. present rate per 3 m	onths		
Anticipated rate next 3 mont	hs		
If in distant future check (X			
EQUIPMENT OPERATED:			
Туре	Quantity or Horse Power	Miles or Hours Per Month	Gallons Required Per Month
Personal Cars		100	<u> </u>
Light or Service Trucks	<u> </u>	·	
Ore Hauling Trucks			·
Compressors			
Other Mine or Mill Eqpt.	·		
product produced or contem	PLATED: Name met	als or minerals.	
REMARKS:	is an a	where dive	lo prosent
thend textstore for	radicers -	to Pharman	ine frequest
	<u></u>		

ARIZONA DEPARTMENT OF MINERAL RESOURCES

DEPARTMENT OF MINERAL RESOURCES

REPORT TO OPA ON ACTIVE MINING PROJECT

Date 2111 14 - 1	944		Filing Information
l. it	1	File System	n
Name of Mine	· 10 114 11	File No	
Owner or Operator Sumper Mu	muy Co- W. OI		to be used for gallons of gas red per month.
Address P. D. Buy 265-	Sampensor a	M	
Mine Location			
•			
PRESENT OPERATIONS: (check X)			
Production; Developmen	nt; Financing	; Sale of mine;	
Experimental (sampling)			
Other (specify)			
PRODUCTION: Past and Future.		Tons	
Approx. tons last 3 months	· · · · · · · · · · · · · · · · · · ·		
Approx. present rate per 3 m	onths		
Anticipated rate next 3 mont			
If in distant future check (X			
	,		
EQUIPMENT OPERATED:	A	M:'l	Collong Promined
Туре	Quantity or Horse Power	Miles or Hours Per Month	Gallons Required Per Month
Personal Cars			
Light or Service Trucks	~	<u></u>	<u></u>
Ore Hauling Trucks	1		300
Compressors	1.R. 216	60	115-
Other Mine or Mill Eqpt.	13-	120	115
PRODUCT PRODUCED OR CONTEM	DIATED. Nome met	als or minerals	5-30
PRODUCT PRODUCED OR CONTEM	Aber - Si	lvin - gold	
		J	
REMARKS:	0 0	1	1. 1-
This propert	g has be	en on a der	clogment-
program	for the pa	st year,	1 11
Reccom	mend to	· appleand-	be allowed
530 Galip	in has a		
0	ARIZONA DI	EPARTMENT OF MIN	FRAL RESOURCES
	ANILONA DI	THE PRODUCT OF WILLY	MANTAL ALLOUGULUUUU

Theld Engines

STATUS OF DORMAN'T MINES

MINE NAME:SUNSET MINE
LOCATION: MINERAL HILLS DISTRICT PINAL COUNTY-ARIZONA.
OWNER AND/OR LEASEE: SUNSET MINING COMPANY
ADDRESS: 213 Minna Street-San Francisco 3, California.
APPROXIMATE PRODUCTION (Year of 1945):
COPFER NONE Lbs. LEAD NONE Lbs.
ZINC NONE Lbs. (OTHER) NONE
CHECK THE CHIEF CAUSE OF YOUR DISCONTINUED PRODUCTION: INSUFFICIENT FINANCES
 (A) Easily available ore worked out. NO (B) Increased costs, but have quantity similar to past grade of ore. YES (C) Too close a margin to develop more ore. NO (D) We shipped approximately \$46,000.00 Ore GROSS to American Smelting & Refining Co,Plant- Hayden, Arizona (Including 5 cars to Magma Smelter) from 1939 to 1943 If you have ore ready to mine please give your estimate of the amount of metal (name each metal) that you could produce in one year (after allowing 60 days to get started) if there were premiums above present market prices. Name amount with a low premium, and amount at a high premium; such as:
Copper at $22\frac{1}{2}$ ¢ plus 5¢ premium 1,000,000 Lbs. Copper at $22\frac{1}{2}$ ¢ plus 10¢ premium 1,500,000 Lbs.
Am satisfied could ship MORE than 1,000,000 Copper within a year at present price (24½ cts) plus 5 cts 1b premimum-and DOUBLE if premimum lo cts 1b.
If you do not have ore ready to mine please discuss the following:
(A) Do you think a reasonable development program would produce a justified tonnage of commercial ore at above mine?
YES- Most CERTAINLY-
(B) With a premium price (guaranteed for one year) could you carry out such a development program yourself? What

If had a 10 cts 1b premimum guaranteed for ONE year am satisfied we could arrange to start operations at once (probably within not more than 60 days from now) would install a larger compressor and Hoist and take less than 60 days to unwater the shaft (C) If you could not do this yourself, would a quick drilling program by some government agency (at government expense) be sufficient? YES-

Would HIGHLY recommend Diamond Drill from bottom of our present

610 Sunset Shaft- ALSO continue develop from faces of our FOUR Levels.

(D) Or would you prefer a loan plan similar to the arrangements during World War II?

The loan "Plan" might bring QUICKER results, although personally would prefer the BONUS plan and we try to secure the necessary finances, we are open to ANY suggestion along this line, we KNOW we have the ORE and want to get busy QUICK. How about a combination plan in two stages such as follows?

- Stage 1: Government engineers review project and, if a little drilling appears to be justified and a preliminary key to the situation, such drilling program to be agreed upon by owner and government engineer, paid for by the government, but let by contract. Thats a GOOD idea,
- If results of drilling (or without drilling) justify underground Stage 2: development and/or production equipment, same to be obtainable via a mortgage loan on property. THAT would be O.K.

Please discuss the above: As the majority stockholder I really

would like to have the Government come in with us on a loan basis

BECAUSE am satisfied we would produce the ore in LARGE quantities

and pay off the mortgage in a VERY reasonable time . Private

capital is "Cautious" and VERY "Delaying" I SHOULD know from

my past THREE years experience trying to get "Capital"

IF the Government REALLY wants COPPER and LEAD, they MOST certainly

can GET it out of the SUNSET MINE and VERY economically - FIRST , SUGGESTIONS: Many Mining Engineers state we HAVE the ore-SECOND, needs practically NO Timbering, THIRD , Close to Smelters, FOURTH, Miners AVAILABLE as living conditions BETTER than at ordinary mines. We will cooperate in EVERY manner possible. We NOW have Jack-Hammers-Stoppers, Pumps, Rails- Cars, Pipe- good Mess Hall-

Shower Room and sufficient "Bunk Houses" What we need is a

larger Compressor, say a 315 cu, ft, or 500 cu, ft. and a larger Hoist.

DATE September 5-1950

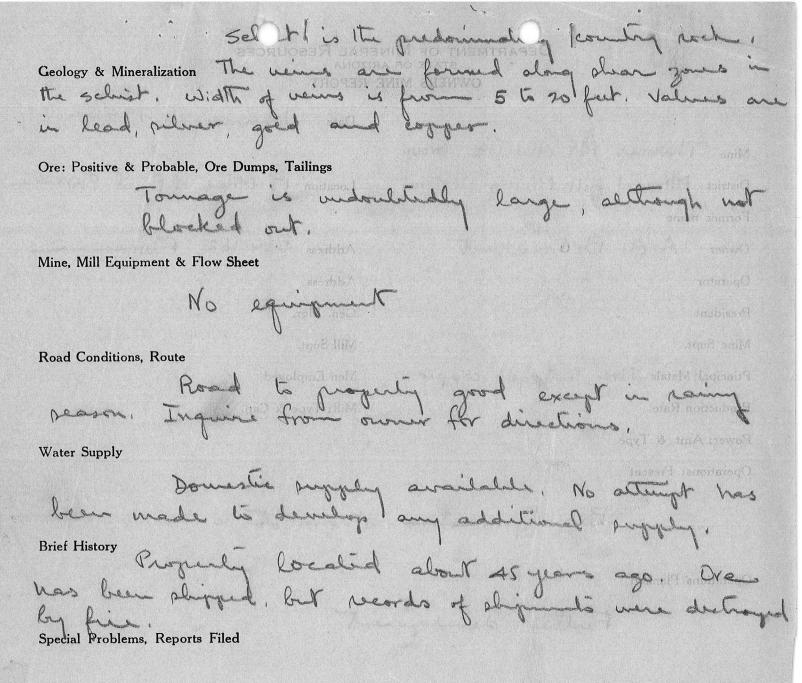
Managan

SIGNATURE M

SUNSET MINE

MT 560 DEPARTMENT OF MINI STATE OF AF OWNERS MINE	ERAL RESOURCES RIZONA REPORT
Mine Thomas ME Autiffe Group	Date January 11, 1940
District Mineral Hill Mining District	Location 17 Miles N.E. of Florence
Former name	
Owner A.A. Brunenkant	Address Box 162, Flore
Operator	Address
President	Gen. Mgr.
Mine Supt.	Mill Supt.
Principal Metals Silver, lead, gold, copper	Men Employed
Production Rate	Mill: Type & Cap.
Power: Amt. & Type	Water Supply
Operations: Present	
Property inactive	at preart
Operations Planned	nin har property and see the
Further development	Special Problems, Reports Filed
Number Claims, Title, etc.	
\$ 9 Unpatented	Claims estrante
Description: Topog. & Geog.	
Rather sloop but	not very high hills and washes
Vegetalien spans	not very high hills and washes
Mine Workings: Amt. & Condition	0h 1 1 1 1 1 1 1 1 1 1
I- Indined Sh	att - approx, 300 deep - Water stands 60 - 20 from collan
1 - Winzer	- 45' -
Approximately	600 of Tunnel
all workings open.	eft - approx. 300' deep - water stando 60 Zo 45' 600' of Tunnel s + allelles purferes cuto except deep pluft.

n C



Number Claims, Tide, etc.

Remarks

Description: Topog. & Geog.

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

For pala - per owner for lines.

Mine Werkings: Ame & Condition

Use additional sheets if necessary.

DEPARTMENT OF MINERAL RESOURCES STATE OF ARIZONA OWNERS MINE REPORT

hunt

Data January 11, 1940

	Date
Mine Thomas McAuliffe Group	Over Province & Probable, Gre. Dumps, Tailinger .
District Mineral Hill Mining District	Location 17 mi. N E of Florence
Former name	
Owner A. A. Brunenkaut	Address Box 162, Florence
Operator	Address
President	Gen. Mgr.
Mine Supt.	Mill Supt.
Principal Metals Silver, lead, gold, copper	Men Employed
Production Rate	Mill: Type & Cap.
Power: Amt. & Type	
Operations: Present Property inactive at present.	
	ifriet i fistory
and all the second s	ind fision the set of
Operations Planned Further development.	
	Special Problems Reports Filed
Number Claims, Title, etc. 9 unpatented claims.	
	Remarks
sparse.	ry high hills and washes. Vegetation
	Plut or neuroparates and an apply to the full deviation of
Mine Workings: Amt. & Condition 1 - Inclined shaft - 1 - " " 1 - Winze Approximately 600' of Various stopes & sha All workings open ex	" 20" " (from collar. " 45" " f tunnel llow surface cuts
	Use addidual anests of newsary

Geology & Mineralization Schist is the predominating country rock. The veins are formed along shear zones in the schist. Width of veins is from 5 to 20 feet. Values are in lead, silver, gold and copper. Ore: Positive & Probable, Ore Dumps, Tailings Tonnage is undoubtedly large, although not blocked out. Mine, Mill Equipment & Flow Sheet No equipment. Road Conditions, Route Road to property good except in rainy season. Inquire from owner for directions. Water Supply Domestic supply available. No attempt has been made to develop any additional supply. Brief History Property located about 45 years ago. Ore has been shipped, but records of shipments were destroyed by fire. Special Problems, Reports Filed Remarks If property for sale: Price, terms and address to negotiate. For sale. See owner for terms.

ALLOS AND A 162 A 164 ALLOS A

Signed Alva A. Brunenkaut

Use additional sheets if necessary.

Mr.Chas.H.I n g- Sept 4-1950

OR give the United States Government a MORTGAGE on the property.

We have expended approximately \$185,000.00 up to the present time and Owe NOTHING. I own and control about 82% of the stock of the SUNSET MINING COMPANY, an California Corporation-qualified to do business in the State of Arizona, this consists of EIGHT claims. I also personally the adjoining NINE Claimsknown as the Arizona Mining Company, and is so desired will Mortgage the entire 17 claims to secure the \$50,000.00 AND the party or parties (Government or otherwise) furnishing this mone can supervise its ENTIRE expenditure.

2

Am enclosing the following "An Assay sheet covering 14 samples taken by our Consulting Mining Engineer, dated June 23-1944, Mr. Addison N. Clark." ALSO TWO (2) letters from Mr.Clark, dated Feb.9-1949 and Feb.12-1949" ALSO a letter REPORT from Mr.Alfred M.Thomsen-our Geologist, dated January 25-1947 "

We have a DETAILED report from Mr.Clark dated July 20-1944 which we can mail you IF you think necessary. He is VERY Optomistic, contains such statements " The Sunset will DEFINITELY make a GREAT Dividend Paying Mine, comparable to the adjacent Magma Copper Mine, about Nine Air Miles Wway"The writer found in the property MORE than he expected to find -- and he had been led to expect to find considerable".

I will greatly appreciate it IF you will return to me (when you are ENTIFELY through with them) the TWO enclosed letters from Mr. Clark dated Feb.9th and Feb, 12th-1949.

I am also mailing under separate dover (in the stamped and addressed envelope you mailed) the 3 Sheets you sent- did this hurriedly, however, THIS letter should give you a reasonably de clear idea as to this VERY promising Copper-Gold-Silver Property (with TWO GOOD Lead-Zinc Veins) With very best personal regards, I remain,

W.O.Kay-Very truly your

THOMSEN LABORATOR TES 425 Potrero Avenue San Francisco 10, California

HEmlock 1086

January 25, 1947

Mr. Joe Baiocchi East Bay Glass Company 621-6th Street Oakland, California

My dear Joe:

Pursuant to your request for a written statement covering my various trips to your Pinal County property and my opinion as to its merits I am embodying such matters in what is actually a synopsis of what has already been conveyed to you by word of mouth.

The property embrases a block of ground approximately a mile in length with a width of about half as much. It is situated in the western foothills of the Pinal Mountains, and occupies approximately the center of a small area of Pinal Schist some three miles in diameter from which the covering rocks have been removed by erosion. This small area has been subjected to a very thorough scrutiny and it is in every way similar to the nearby copper mines, though necessarily the actual type of ore deposit presents its own characteristics and is quite diverse from that of either Niami, Ray, or its nearest neighbor, Magma.

The genesis of the ore deposits is quite simple. The bedding planes of the Shist constituted lines of weakness in the strata and in the volcanic disturbances to which the entire terrain has been subjected such lines of weakness became the seat of extensive movement with consequent shattering of the rock and the formation of extensive zones of brecciation. Such shattered rock was then infiltrated by the ore bearing magmas with consequent deposition of copper-lead zinc minerals accompanied at times by considerable quartz and at times virtually without such silicification. It follows that these zones, properly called "veins" conform in strike and dip with the Pinal Schist. Where by caprice of nature much quartz accompanied said mineralization the resultant veins crop boldly and form the only really distinctive feature of the landscape. Where said quartz is sparingly present the veins do not crop but instead are represented by intensely leached and altered vein matter from which the copper has all but vanished. Contrariwise, the quartz croppings often show in addition to the customary oxidized copper minerals vestigial remnants of primary sulphides of copper, lead and zinc, accidentally preserved by an impervious envelope of silica. At this point it may be well to reiterate a statement which I have frequently made to you to the effect that when there is evidence of the former presence of copper in an outcrop the complete removal of said copper is one of the best "indications" of good ore in the zone of secondary enrichment. Such removal of copper is everywhere in evidence in the present surface exposures of the veins in this area.

I wish to point out the salient distinctions between the nearby mines and your property. The Ray-Minni type is a mineralization of the country rock itself resulting in crebodies of vast extent and rather low copper tenor. The Magna is a true well type far deeper in extent then either Ray or Miani and of a mich historic correction of the discription is lowerly continue to a size supplementary vain. These vains are roughly vertical and cut the bedding planes of the Schist, while yours conform to said bedding planes.

The presence of lead and zinc minerals in the outcrops of your veins suggest, as in the case of Magma, that we are considering the top rather than the bottom phase or ore deposition, and this observation together with the great horizontal extent of the veins augur that exploration will reveal large and permanent bodies of ore. Again, unlike Magma, you are confronted with the presence of a great many veins, at least eight having been found sofar. I confidently predict that many more of the same type will be encountered for, as already stated, the surface exposure is determined by the caprice of quartz deposition, not by mineralization in general.

Another distinction between these large copper producers and your own property is the relatively large gold content everywhere encountered. It is rather phenomenal that in the shipments from the ore pocket, accidentally preserved for you above the 310 level, the economic value of the gold is roughly on a par with the copper content. A high silver value, such as gave the original name of "Silver Queen" to Magma, was the result of secondary enrichment and accidental preservation of pockets of said secondary zone in what had become a leached and empoverished zone. In your case we are dealing with residual gold forming a part of the primary deposition of ore. In only one place have I seen any sign of secondary enrichment, namely in a small pocket of pur copper glance extracted from the Stanley Vein just below the 310 level.

If I seem to speak with some degree of familiarity about the large nearby copper mines in making such comparisons, please bear in mind that I was part of such early Arizona development and 'now the surface of said properties as they were before extensive development. I traversed Ray while in the initial diamond drilling stage and before and an associate of mine actually held a contract on the "Silver Queen" which is now Magma. In view of such familiarity I cannot help but say that in spite of the very small amount of development on your property you have every right to believe that you have the makings of a major Arizona Copper mine, and that is high praise indeed. I also believe that gold will form a more important part of the value in said one than in any of the present Arizona producers of magnitude. To use a much abused word, I believe that your surface "indications" are as good, if not better, than was the case in any of the nearby copper mines.

Thus reading the history of ore deposition from the original stage through leaching and secondary enrichment I am confident that the secondary zone at or near water level will not fail to produce ores of economic value. What the primary ores will show is more dubious, but Arizona has yet to produce a single exception to the rule that such "indications" as you have mean pay ore at water level.

Below such water level I believe that you will encounter a complex of copperlead-zine with supplementary values in silver and above all, in gold. At still greater depth you will probably experience a gradual elimination of silver, lead and finally zine with the orebodies taking on a simpler character and with values chiefly in gold and copper. It is not saying too much to state that the phenomenon of secondary enrichment has been the dominant factor in preparing ALL of Arizona's copper mines for man's exploitation even though extensive work in the primary zone has also disclosed primary orebodies of workeble grade.

All this leads to the question: "Where may we expect this secondary zone?" To put it otherwise, how deep is "water lever?" To this I must answer that no man can tell, it is only ascertainable by work. When we stood at the Sunset shaft on our first visit together, I said: "It may be found very soon, or it may be down a thousand feet, or it may be deeper." On the accompanying maps that give a profile through the Sunset shaft you will see that you are even now but 300 ft. vertical below the deepest point laid bare by nature's erosion. That is not very much.

Of course the cheapest way, and the fastest, to determine the depth of this sulphide zone is by the use of the diamond drill. On the other hand it is not too promising as a means of showing up ore, that is, unless it be used in a very extended and expensive campaign. The testimony of a few cores can give a black eye to any property or can make the owner oversanguine. Orebodies are extremely irregular both as to size and value when taken by the foot and a core is a poor sampling tool compared to drift or raise. Therefore, it you elect to use the drill I would say to use it only to determine the depth to which you must go to intersect one of your veins in the sulphide zone. After that it is time to sink your shaft to that pre-determined depth and go after your ore in orthodox fashion. If you elect to do this, I further recommend that you purchase a drill, a matter of but some \$2,000.00, and do your own drilling. By contract, you are not able to vary your campaign as may be indicated by the drill from day to day. I also suggest that you spend some \$500.00 for an assay outfit so that one of your own men can follow the "sludge" daily and report directly, thus eliminating the publicity attendant upon commercial work as well as the liability of carelessness and delay. In this manner you can do drilling at perhaps as low as \$2,00 per foot or even less.

However, the cost of this work is really noney lost. There is no substitute for the plan I gave you on our initial visit, namely, to sink deeper where you are. In doing this, every dollar expended is permanently well invested towards the ultimate goal of taking out pay ore. In doing such work there is nothing more important than to provide proper equipment. Your past high costs are due principally to the fact that your machinery is either inadequate as to size or else worn out. Portable equipment is very handy at the start but there is no substitute for heavy duty machinery when there is a job of any length ahead.

I would avoid all electrification. That is too expensive. Instead I would install an over-size Diesel driven compressor, and put your hoist on air. Any good steam hoist can than be installed and will function very well for both raising and lowering men on power. That the electric hoist does not do, and I am a crank on underground safety. I priced a "government surplus" hoist, brand new, and good for 2500 ft. for \$1,000.00. A compressor with a capacity of 650 ft. of air per min. at \$1,500.00. These prices are f. o. b. San Francisco. Hoist and Diesel are not new but in excellent shape. These are your principal items.

With such equipment you can go to water lever, and the ore will be there waiting for you, for be assured nature took care of that a long, long time ago. It is the long way to look at things, but it is the only right way. The drill will give you some facts and perhaps encouragement. This latter way will get you to your ore in shape to begin taking it out. It is the only way I personally have ever used.

If there is any additional information I may possess, be assured that it is always at your disposal.

en Zas

Sincerely

Alfred M. Thomsen

DEPARTMENT OF MINERAL RESOURCES STATE OF ARIZONA FIELD ENGINEERS REPORT

Mine Gilbert Claims (Nichols)

Date 1-30-63

District Mineral Hill District, Pinal County

Engineer Lewis A. Smith

Subject: Interview with Woody Nichols in Globe.

Mr. Nichols is preparing to do assessment and other development work on his Gilbert Claims south and east of the Ajax. He plans to do some development work on a vein containing copper oxides in the outcrop. The principal mineral is chrysocolla. The property also has veins showing lead-silver and one that shows fair gold. The veins are in schist cut by porphyry dikes which look like andesite. The veins generally strike NW-SE at small angles. Mr. Nichols says there is a belt, with the Reymert at the north and his at the south, in which the mineralization is generally similar. This includes the Reymert, Apache, Woodpecker, Ajax, Tom Boy, Sunset, and Nichols from north to south. The belt to the east of this includes the Talley-Wall, Silver Belle, Martinez and others. Nichols thinks the east belt may have been faulted from the south end of the west belt. (This would involve a tremendous horizontal component.) Nichols has a tentative arrangement with Waughtel to mill his lead-silver ore, if the new mill proves successful.

Redwood City, Calif. August 25th 1944
DEPT. MINERAL RESOURCES RECEVED
AUG 28 1944
and Div

Arizona Bureau of Mines 413- Home Builders Building Phoenix, Ariz.

Gentlemen;

I would like to make an enquirelregarding some infomation on The Sunset Mining Corporation located at Florence Junction; Arizona.

I wish to know if it is operating

now at this present time, and if so what minerals do they or metals take from the mines. Any information that I may receive from you will be kept strictly confidential, and appreciated. Thanking you very kindly, I remain

Yours very truly. on Thomas Giannini

445- Myrtle St. Redwood City, Calif. August 28, 1944

MEMORANDUM

TO: Andrew Macfarlane FROM: Chas. H. Dunning

Herewith inquiry regarding the Sunset Mine near Florence.

If you have any further data you might write this man and send copy for our file.

CHD:LP Enc. 2 August 28, 1944

Mr. Thomas Giannini 445 Myrtle Street Redwood City, California

Dear Sir:

The latest news we have concerning the Sunset Mine in Pinal County, Arizona is dated March 21, 1944 and is as follows:

> "It is expected that actual production will be started at the Sunset mine sometime in April and development work is proceeding. The 386-foot crosscut off the 310-foot level has just been completed at the Sunset, which is about 20 miles northeast of Florence, Arizona. Values are in copper, gold and silver, and five men are employed at present. The property is being operated by W. O. Kay, Florence Junction, Arizona, under lease from the Sunset Mining Company."

We will forward your letter to our field engineer in that district, Mr. Andrew Macfarlane of Globe, Arizona, and ask him to advise you direct if there is any later news.

Yours very truly,

Chas. H. Dunning Director

CHD:LP

CC: Mr. Andrew Macfarlane

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

August 7, 1958

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

copper with some gold and silver Sunset Mine (Pinal County) (ore) (Property) which we would like to have NIX. AUG 7 630PM A VIEL MUSICAL APARTARYS 79 58 port form with as complete detail s, assay returns, shipment returns aimed asufficient nown Moved, Left no add 388 fore and which might interest a Mr. W. O. Kay Sunset Mining Company ۰. Box 265 'n 'elope CENTS Superior, Arizona Frank P. Knight FRANK P. KNIGHT, Director.

Enc: Mine Owner's Report

Sunset Mining Company DEPT. MINERAL RESOURCE RECE'VED JAN 22 1945 Florence Junction, Arizona ARI_0 PHOEN 11.04 Bryant Street -- San Francisco 3, California. January 20-1945

Arizona Department of Mineral Resources 304 Home Builders Building Phoenix, Arizona.

Dear Mr. Dunning;

I was called here late last month and expected to remain here only couple of weeks, been delayed but will leave for the line around last of this month,

We are working the same crew we had then you and Mr. Mathematical and the mine on the last of last month, we encountered some good ore and shipped a car of same on the 10th of December, also should soon ship abother car, elthough lately we put three of the men working at another point where we hope to soon get good shipping ore, from letters received from the mine I can plainly see we will need more of the Non-Highway gasoline within the next couple of weeks, or maybe sconer, SO, an herewith enclosing the Application for an additional 1590 gallons. This Application wight be couple of weeks earlier than

we originally thought we might need more of this gasoline, but we SUPE have been doing considerable work at the sine using both compressors some days and one compressor practically every day, also hoisting both ore and waste right along, we try to watch this very carefully and use the gasoline only when necessary. An also enclosing herewith the last "Mileage Ration Identification Folder". While at the Ration Board in Florence, Arizona on the 15th

of last month, Miss Sims (in charge there) incidentally stated we should send you this Application "at least two weeks before we needed the gasoline".

I will greatly appreciate it if you will forward to me here (W.O.Kay-1104 Bryant Street-San Francisco 3, California) your approval for this Non-Highway Gasoline and I then will forward same to the Florence Ration Board with request they mail the coupons direct to the Sunset Mine- box 265-Superior, Arizona, so our foreman can get them before he runs out of the few coupons he now has on hand.

Will call upon you just to say "hello" when enroute back to the mine, in the meantime please accept my best regards and thanks,

Yours very truly

5.01

W.O.Kay Sunset Mining Company

January 23, 1945

Mr. W. O. Kay Box 265 Superior, Arizona

Dear Mr. Kay:

We have received your letter of the 20th with gas application and take pleasure in approving same and returning herewith.

We trust your shipments turn out well and continue to increase and that you make a lot of money.

Yours sincerely,

Chas. H. Dunning Director

CHD:LP Enc.

SUNSET

COPPER COMPANY MINE OFFICE: BOX 265 SUPERIOR. ARIZONA

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• W.O.Kay 1104 Bryant Street San Francisco 3, California





Department of Mineral Resources 304 Home Builders Building Phoenix, Arizona.

ATTN.Mr.Chas H.Dunning

