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Arizona Department of Mines and Mineral Resources Mining Collection

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PRINTED: 03/21/2002

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: MUDERSBACH MINE

ALTERNATE NAMES:
BLUE MOON GROUP
EXCELSIOR MINE
WILLIAMS
MUDERSBACH COPPER CAMP

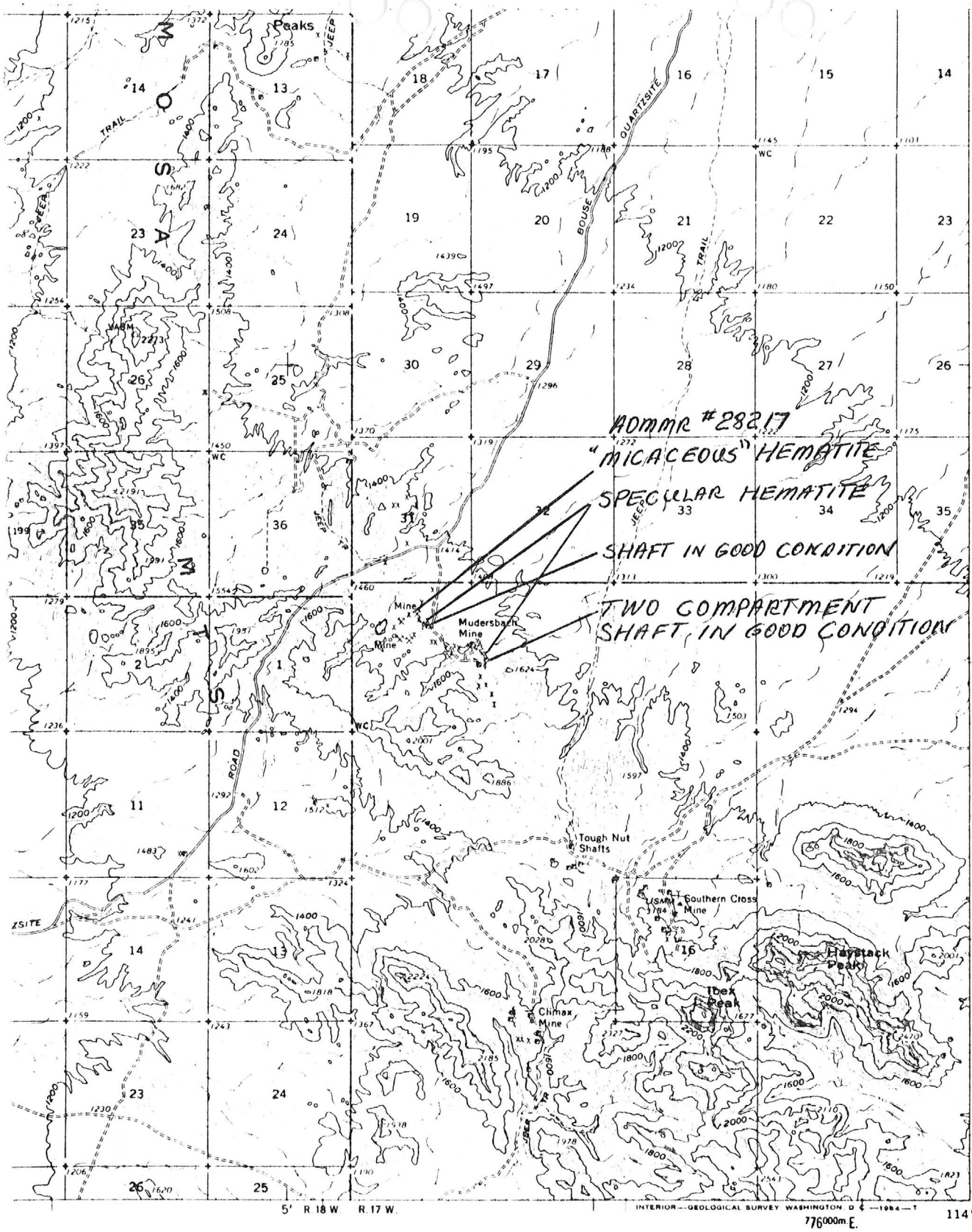
LA PAZ COUNTY MILS NUMBER: 316

LOCATION: TOWNSHIP 5 N RANGE 17 W SECTION 6 QUARTER NE
LATITUDE: N 33DEG 48MIN 17SEC LONGITUDE: W 114DEG 03MIN 39SEC
TOPO MAP NAME: BOUSE - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:
COPPER SULFIDE
COPPER OXIDE
IRON SPC HEMATAIT
SILVER
GOLD LODE

BIBLIOGRAPHY:
ADMMR MUDERSBACH MINE FILE
KEITH, S.B., 1978, AZBM BULL. 192, P. 168
USGS BULL 451, P. 90
COPPER HANDBOOK, VOL 10, 1911, P. 801
MINES & COPPER HANDBOOK, VOL 13, 1918, P. 358
MINES HANDBOOK, VOL 14, 1920, P. 397



2 3 4 MILES

12000 15000 18000 21000 FEET

3 4 5 KILOMETERS

FEET
CONTOURS
EL

ROAD CLASSIFICATION

Medium-duty — Light-duty

Unimproved dirt

State Route

(VICKSBURG)

ARIZONA

QUADRANGLE LOCATION

CURACY STANDARDS
LORADO OR WASHINGTON 25, D. C.
OLS IS AVAILABLE ON REQUEST

BOUSE, ARIZ.
N3345—W11400/15

1962

MUDERSBACH MINE
LA PAZ COUNTY, ARIZONA

MUDERSBACH MINE NE 1/4, Sec.6,T.5N.,R.17W. La Paz County, Arizona
NW 1/4, Sec.5,T.5N.,R.17W. MILS 316

RRB WR 1/21/83: Visited the Mudersbach Mine (file), AKA Excelsior, in Sec.5,T.5N.,R.17W., Plomosa District, La Paz County. A broken sign on an acess road read "Mann Exploration Mining". Threr was no evidence of recent activity.

KAP WR 3/20/1987: In the company of Mike Greeley a visit was made to the Mudersbach Mine (file){new}, [aka Excelsior, Blue Moon and maybe others] copper, gold, silver and iron occurrence, La Paz County. A separate report has been written. Approximately 50 pounds of specular hematite was obtained for Museum teachers' kits. A sample (ADMMR # 28217) of "micaceous" hematite was obtained for analysis as a speciality pigment. Further a new file has been created from data in what was previously known as the Blue Moon Group (file). The Blue Moon Group file which no longer exists contained information on the Mudersbach gypsum deposit, the Mudersbach copper, gold, silver and iron deposit as well as others in the Bouse area and the Plomosa Mountains. The file has been divided into new files.

KAP WR 5/15/87: Mr. R. C. Mann, P O Box 156, Bouse, Arizona 85325, had (in 1982) a group of claims known as the G. M. Zinc Mine which cover the Mudersbach Mine (file) and the Mudersbach Gypsum Mine (file) in La Paz County.

KAP WR 6/5/87: John Rudd was in and I gave him most of sample #28217 of specular hematite from the Mudersbach Mine (file) La Paz County. He will test the sample for use as a pigment.

MINE AND PROSPECT FIELD VISIT DATA SUMMARY

Sheet 1 of 2

COMMODITIES Copper, iron, gold, silver

MILS ID No. 316 Date 3/18/87

ENGINEER Ken A. Phillips and Mike Greeley

INFORMATION FROM: Field visit, March 18, 1987

PROPERTY SUMMARY

I. MINE NAME Mudersbach Mine OTHER POSSIBLE NAMES INCLUDING ANY CLAIM NAMES NOTED Excelsior, Williams, Blue Mo

II. LOCATION: T 5N R 17W SEC(S) 6 NE, 5 NW MINE DISTRICT Plomosa Mtns

ELEV. 1600 COUNTY La Paz TOPO QUAD. Bouse 15'

DIRECTIONS One mile off county road from Quartzsite to Bouse. See attached map

MAP ATTACHED yes

III. OWNERSHIP: NAME PHONE

ADDRESS:

COMPANY NAME IF ANY:

PERTINENT PEOPLE

IV. PROPERTY AND HOLDINGS:

V. PAST PRODUCTION - NOTED, KNOWN, PROBABLE, UNKNOWN, NONE Approximately 700 tons averaging 4.4 % Cu, 0.03 oz/ton Au and 0.67 oz/ton Ag

VI. CURRENT STATUS: Past producer

VII. WORKINGS: Three shafts, 2 noted on map in good condition. Numerous prospects, short adits, etc.

VIII. GEOLOGY AND MINERALOGY: DEPOSIT TYPE: Contact metamorphic

LENGTH: WIDTH: VEIN STRIKE DIP

HOST ROCK: Faulted, deformed metamorphosed limestone intruded by quartz monzonite

ECONOMIC MINERALS: Copper oxides and sulfides, specular hematite

COMMENTS: Chalcopyrite, bornite and pyrite in a pyrometasomatic deposit with garnet epidote gangue and strong hematite-copper carbonate gossin

IX. EQUIPMENT ON SIGHT: None

X. SAMPLING: NOTE TYPE IF ANY, DRILLING? A small (-5lb) sample of loose "micaceous" specular hematite was taken for analysis as pigment material. ADMMR sampe 28217.

Approximately 50 lb of denser specular hematite was collected for the Arizona Mineral Musem.

XI. REFERENCES AND REMARKS

249 PAGE 230 AMENDMENT DKT 1252 268 mm-82-5-7

MC 146889

AMENDED - October 16, 1981

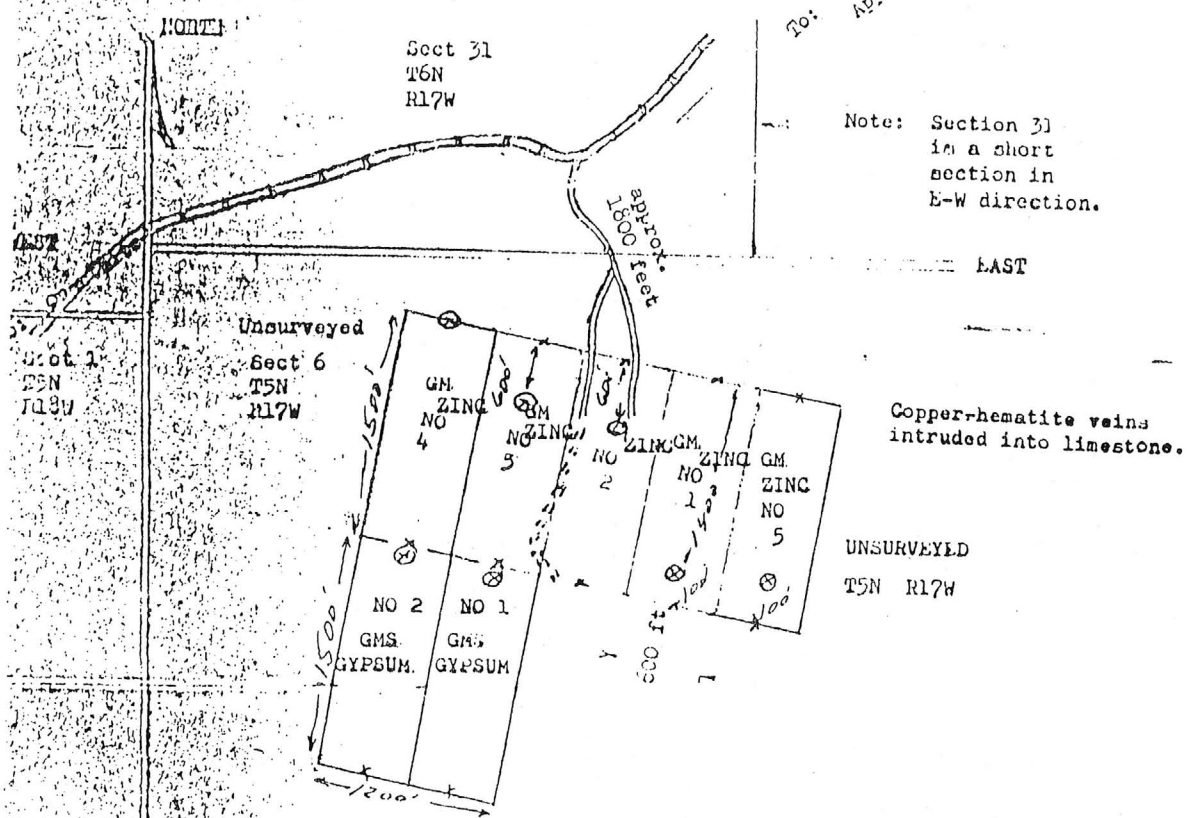
LOCATION PLAT OF: GM ZINC MINE NO's 1 thru 5

& GMS GYPSUM MINE NO's 1 & 2

(Note :GMS Mine name changed to GM ZINC)

To: BOUSE, ARIZ. Approx. 9 miles

mm-82-5-0



GMS GYPSUM NO's 1 & 2 - Owned by C. Gingrich, R. C. Mann, & Ed Sloan.

GM ZINC NO's 1 thru 5- " " C. Gingrich, & R. C. Mann.

MAP SCALE - Approx. One (1") INCH Equals 990 feet.

LOCATION PLAT OF: GM ZINC MINE NO's 1 thru 5

& GMS GYPSUM NO's 1 & 2.

Located: Approximately 9 miles South West of Bouse, Arizona & 1800 feet South of the Bouse - Quartzite road. Claims are located in the Unsurveyed Section 6 of T5N & R17W in YUMA County, Arizona.

Corners: are 4" x 4" POSTS x 4 feet high plus 2 Center End Line Posts.

Owners: Mr. C. Gingrich, & Mr. R. C. Mann.

Date: September 27, 1981

As amended October 16, 1981

FILED BY: MR. R. C. MANN
P.O. BOX 156
BOUSE, ARIZ. 85325

ARIZONA STATE OFFICE
BUREAU OF LAND MANAGEMENT

DEC 24 1981

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine BLUE MOON GROUP

Date April 20, 1955

District PLOMOSA, YUMA COUNTY

Engineer Mark Gemmill

Subject:

Inactive -

in the said 200 foot shaft in the Copper Hill claim and several carloads of copper ore were shipped to Swansea, where Mitchell was then operating a smelter. Mitchell stopped work at the Blue Moon mine at the time when he closed Swansea down, leaving Blue Moon in a partly developed condition.

The above information was given me by Judge Bellus, who has been a resident of Bouse for a number of years.

GEOLOGY - VEINS:

The primary country rocks within the confines of this group are of sedimentary origin, probably of Permian age, consisting of lime carbonate, shales, etc., which have been intruded by basic igneous dikes. Also, within the Blue Moon claims are large deposits of gypsum, which is a hydrous calcium sulphate, $CaSO_4.2H_2O$. These deposits are no doubt a product of volcanic activity where the sulphuric acid fumes from fumeroles have acted on the lime carbonate beds transforming large areas of the same into gypsum, leaving huge reefs of unaltered lime carbonate traversing the property, and these reefs lie adjacent to beds of almost pure gypsum. One pilot sample of this material taken by me assayed as follows, to-wit:

Lime oxide (CaO)	31.90%
Sulphuric Anhydride (SO_3)	45.71%
Total Water (H_2O)	20.49%
Hydrous calcium sulphate ($CaSO_4.2H_2O$) - gypsum	98.10%

While the gypsum beds mentioned are as yet undeveloped, from surface exposures I would say, by and large, there are hundreds of thousands of tons of this material indicated within the property. Some of it can be removed by open pit methods; but later on underground methods will have to be employed, as the gypsum occurs in well-defined strata which seem to be deep-seated.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

DEPT. MINERAL RESOURCES
RECEIVED
NOV 8 1944
PHOENIX

Mine BLUE MOON GROUP

Date November 6, 1944

District Plomosa, Yuma County, Arizona.

Engineer Elgin B. Holt,
P. O. Box 188,
Kingman, Arizona.

Subject:

R E P O R T

OWNERS: J. C. Townsend, et al, Bouse, Arizona.

METALS: Copper, gold and silver.

NON-METALLICS: Gypsum, occuring in massive deposits separate from veins which carry copper, gold and silver.

LOCATION: AREA:

The property consists of six mining claims, known as: Blue Moon Nos. 1, 2, 3 & 4, and Copper Hill and Copper Hill No. 1. The group is located about 10 miles south of Bouse, Arizona, with which village it is connected by means of a State maintained highway, which passes within a half mile of property. A dirt road leads from this highway to the various claims of group. There is a loading ramp at Bouse, which is a station on the Santa Fe Railroad. Cost of hauling ore or gypsum from the mine to Bouse is estimated at 50¢ per ton.

HISTORICAL:

In 1889 this property was located by Gustave Mudersbach, who around 1910, gave a lease and option on it to George Mitchell, who was then operating the Swansea Copper Mine, situated 25 miles north of Bouse. Purchase price mentioned in this option was $250,000. Tom Varden was superintendent and sank a vertical shaft on the Blue Moon No. 1 claim to a depth of around 400 feet, and another shaft on the Copper Hill claim to a depth of 200 feet. No cross-cutting at all was done from the bottom of the said 400-foot shaft in order to pick up the main vein, which runs from northwest to southeast and passes within 100 feet of said shaft. But the vein was found by cross-cutting

CONCLUSION:

As far as the copper showings on this property are concerned, considerable new work will have to be done in order to prove, one way or the other, whether important copper ore reserves exist at deeper levels in this property. In this regard, the first step to take would be to recondition the 400-foot shaft mentioned and then run a cross-cut to vein, from the 400-foot level. On the surface this vein is about 20 feet wide, it being in the nature of a mineralized fault zone. Ore in surface workings is oxidized material, occurring with horses and wedges of brecciated country rock. Four tons of ore on dump, at Blue Moon, assayed as follows:

Gold-oz	Silver-ozs	Copper-%
0.20	6.20	5.20

Another sample taken in place, across about 10 feet of vein width, in a 10-foot holeon vein, near the said 400-foot shaft, assayed:

Gold-oz	Silver-ozs	Copper-%
0.03	1.82	1.4

By running such a cross-cut from the 400-foot level, and by thus cutting the vein at that level, it can be proven once and for all whether the vein at that point has commercial values or not. Also sulphide ores, easily amenable to flotation treatment, should be found, if at all, in the said cross-cut, once the vein is reached.

GYPSUM:

The gypsum deposits on this property seem to have far more potential value than the copper showings. In the first place, the grade of the gypsum, as far as we now know, is excellent. In the second place, a large tonnage is indicated. Thirdly, the gypsum can be trucked to the railroad at Bouse at a low cost. Hence, the only factor to consider, or mainly so, is the market for the gypsum.

Elgin B. Holt

Elgin B. Holt,
Field Engineer.

Salome, Arizona,
October 13, 1944.

Dear Lee:

I am herewith enclosing a power of attorney which please sign and have acknowledged by a Notary Public and mail to J. C. Townsend, Bouse, Arizona.

You own, as my agent, a half interest in the claims mentined in this document. These claims were primarily located, or rather purchased by ourselves, due to the fact that there are several old copper mine workings thereon. Later, we discovered that the Blue Moon claims cover a very large deposit of high grade gypsum, used in soil conditioning, making plaster, wall boards, etc.

We have had two recent and urgent offers for this group from two sets of clients. One outfit has moved onto the ground and is doing test pit work and sampling with a view to establishing a grinding mill at Bouse. Our deal calls for a royalty of $1.00 per ton gross for all gypsum moved from property. Clients are figuring on moving at least 50 tons a day.

Also we have people nibbling with a view to taking over the volcanic ash deposit, near Bouse. But nothing definite as yet on this score; but if we do make a deal on the ash we will also get $1.00 per ton. If a deal results either way, you will, of course, betaken care of in a liberal manner. Genevieve is also in on the volcanic ash; but we may locate this ground, dueto the fact that we took it up as a placer, using 8 names, yours, Bill Johnson's and Gen's name. Also, we put in a fellow by the name of Herb Howard, of Bouse, since deceased which messes up the show. So we will probably relocate this ground as lode claims, and if so, we will use your name and Townsend's.

I am in Salome and will go on to Phoenix next week end and will remain there one week. Back to Kingman at the end of October.

Tell Barbara hello for me and ask her why she did not invite us all to her wedding, which happened the last day I was in L. A. ? Maybe she was gun shy! Or had the buck fever! Anyhow, I wish her all kinds of luck.

Love to all,

P. O. Box 188,
Kingman, Arizona,
Nov. 1, 1944.

Dear Mr. Townsend:

I am herewith enclosing a location notice in duplicate. Post one on the ground indicated in the sketch map hereto attached, or covering the ground paralleling and adjoining the Blue Moon No. 1 claim on the NE. This in order to be sure to take in the so-called LIME REEF, which we sampled. Have not heard from assays yet; but will mail you copies as soon as the same are received, from both Phoenix and Los Angeles.

I left the number of this claim in blank, which please fill in.

Today I met a Mr. MacDonald, who is working a limestone deposit near Chubbuck, California, for the Kaiser Company. Crushed limestone (lime carbonate) is shipped to Fontana Steel Works for fluxing purposes. I showed him a piece of the "crystaline gypsum". He said it might be lime carbonate and if so it is worth more than the gyp. He wants me to send him the analysis of the samples we are waiting for and if it is the right stuff he wants to come and take a look see.

Anyhow, I think we have a good set-up, that is speaking for yourself and associates, who are my friends. So better spend a day or two out there and locate all showings of gypsum and crystaline gyp or lime, whatever it may be.

Again, I saw McQueen and Clara and told them of your offer, and that they had better see you, as you are doing the dealing. So they went out last Sunday to see you. I told them that you want action and that you would expect McQueen to do a bit of "performing", if he expects to hold his option. All in all, I do not want to offend the Parker people; so will leave it to you to handle this matter all around. However, if the Parker people fall down, let us go slow about giving anyone else any option at all until they have some ready cash to lay on the line. Then, let us makeit the first requisite for them to do the location work on the new claims.

Expect to arrive in Bouse the afternoon of November 14th; but write me at once what arrangements, if any, did you make with Clara.

Sincerely yours,

Elgin B. Holt

cc - Valeria Viscarra

PHO. , ARIZONA Nov 27, 1 3. , 194

Mr. J. C. Townsend

IN ACCOUNT WITH

ARIZONA ASSAY OFFICE

CHAS. A. DIEHL

PHONE 3-4001 815 NORTH FIRST STREET P. O. BOX 1148

Nov.	27	2 gold silver coppers	$4.00		
		1 gold silver	1.25		
		Total	$5.25		

Paid by check 12/3/43
#126

No. 180 To

Phoenix, Arizona,

Nov. 27, 1943.

CHAS. A. DIEHL

ARIZONA ASSAY OFFICE

Phone 3-4001 — 815 North First Street — P. O. Box 1148

This Certifies *That samples submitted for assay by* Mr. J. C. Townsend. *contain as follows per ton of 2000 lbs. Avoir.*

MARKS	SILVER Ounces	SILVER Tenths	VALUE (Oz.)	GOLD Ounces	GOLD Hundths	VALUE (Oz.)	TOTAL VALUE Of Gold and Silver	% PERCENTAGE COPPER	REMARKS
BLUE MOON MINE									
1		.1			.02	$.70		2.71	
2		.1			.03	$1.05			
3	Trace			Trace				7.60	

Charges $ 5.25

Assayer ARIZONA ASSAY OFFICE

No. 155 De

Phoenix, Arizona,
Oct. 30, 1944.

CHAS. A. DIEHL

ARIZONA ASSAY OFFICE

Phone 3-4001 — 815 North First Street — P. O. Box 1148

DEPT. MINERAL RESOURCES RECEIVED NOV 1 1944 PHOENIX, ARIZONA

This Certifies That samples submitted for assay by Dep't of Mineral Resources, contain as follows per ton of 2000 lbs. Avoir.

MARKS	SILVER Ounces	SILVER Tenths	VALUE (Oz.)	GOLD Ounces	GOLD Hundths	VALUE (Oz.)	TOTAL VALUE Of Gold and Silver	% PERCENTAGE CaO	% PERCENTAGE SO_3	% PERCENTAGE H_2O		REMARKS
S.B.Holt.								49.02	.10	.37		

Charges $ 4.50

Assayer ARIZONA ASSAY OFFICE

SAMPLES NOT KEPT OVER 30 DAYS EXCEPT BY REQUEST

SAMPLES SENT US BY MAIL WILL RECEIVE PROMPT ATTENTION

CERTIFICATE OF ASSAY FROM LABORATORY OF

R. V. McALLISTER

ASSAYERS, CHEMISTS, METALLURGISTS

FRONT STREET

KINGMAN, ARIZONA

FLOTATION TESTS

CYANIDE TESTS

PHONE BLUE 252

Dept. of Mineral Resources

Oct. 22, 1943 194

MOHAVE MINER PRINT

OFFICE NUMBER	OWNER'S MARK	GOLD, PER TON		SILVER, PER TON		TOTAL VALUE GOLD & SILVER	COPPER PER CENT	LEAD PER CENT	ZINC PER CENT	PER CENT
		OUNCES	VALUE	OUNCES	VALUE					
11024	Blue Moon Mine	0.20		6.20			5.20			

REGISTERED ASSAYER CERTIFICATE EXPIRES R. V. McALLISTER DEC. 31, 19 ARIZONA, U.S.A.

GOLD $35 PER OUNCE

SILVER 71 CENTS PER OUNCE

Charges 2.00

R V McAllister REGISTERED ASSAYER

Dec. 30, 1943

P. O. Box 188,
Kingman, Ariz.

Mr. Lewis A. Dunham,
Mining Engineer,
The Engineer's Club,
32 West 40th Street,
New York.

Dear Mr. Dunham:

I am pleased to receive your air mail letter of December 25th, as well as to note the conversations you have had with Mr. Whicher which may result in him sending an engineer early during January to examine the Blue Moon mine.

While others have made recent enquiries about this property, rest assured, Mr. Dunham, we will leave the mine in your hands until you have finished dealing with clients there. I am too old in the mining business to try to hurry up a mining deal. It cannot be done; so, as stated in my wire, "Go right ahead and make the best deal you can."

While I was at Bouse around 10 days ago, Townsend had two men sinking a shaft in the upper cut at Blue Moon, or the place where you cut sample number 2. These men had just started and the ore in the bottom of their work looked good. They were segregating the shipping ore and piling it on the dump.

As I have pointed out to you a number of times, the main problem at Blue Moon is to adequately finance the development of a large underground supply of milling or shipping ore in the sulphide ore zone, which should be found at water level somewhat deeper than the bottom of the 400' shaft. That such sulphide ore will be found is attested by the iron and copper pyrite we picked up on the dump of said shaft and which came from country rock material adjacent to the vein.

Also while I was last in Bouse, I had a talk with Judge Bellus who built the head frame at Blue Moon years ago when the mine was operating. Here is his story:

"In 1889 this property was located by Gustave Ruderebach, who, around 1910, gave a lease and option on property to George Mitchell, who was then operating the Swansea copper mine; purchase price mentioned in this option was $250,000. Tom Varden was Superintendent and sunk the vertical shaft to a depth of around 400 feet, and another shaft on the Copper Hill claim

which is a part of the Blue Moon group, to a depth of 200'. No cross-cutting at all was done from the bottom of the said 400-foot shaft in order to pick up the main vein. But the vein was found by cross-cutting in the 200-foot shaft at Copper Hill and two cars of copper ore was shipped to Swansea, at which Mitchell was then operating a smelter.

"Also Mitchell stopped work at BlueMoon at thetime when Swansea was closed down."

This is, more or less, what Bellus had to say about the Blue Moon mine.

Another thing, since you were at this property, an engineer representing the U. S. Bureau of Mines visited it with Townsend and was very much pleased with the same. He stated his opinion was that a lot of copper sup found deeper in the mine, a

For your information, I will remain in Kingman unt Sunday, January 9th, on which date I will again leave for Parker. On January the 11th, I will reach Bouse and after that I will work on south to Yuma and other points and will be back here in Kingman about January 23rd.

Wishing you a happy and prosperous New Year, and with kindest regards, I am

Sincerely yours,

Elgin B. Holt

cc - J. C. Townsend,
Bouse, Arizona.

COPY

Bouse,
Nov. 1[illegible], 194[illegible]

Mr. Lewis A. Dunham,
Beale Hotel,
Kingman, Arizona.

Dear Mr. Dunham:

As per my wire to you of today, I have made the following firm contract in your favor with Mr. J. C. Townsend, Bouse, Arizona, owner of the Blue Moon Mining Claims Nos. 1 & 2, located in the Plomosa Mining District, Yuma County, Arizona, about 8 miles south of Bouse:

He has authorized me as his agent to grant you an option on said property under the following terms, to-wit:

Purchase price ----------	$30,000.00

Purchase payments to be met in the following manner:

On or before 30 days from date ----------	$600.00
On or before 14 months from date ----------	$5,000.00
On or before two years from date ----------	10,400.00
On or before three years from date --------	14,000.00
Total ---------	$30,000.00

Upon the payment of the said $600 cash, you will be allowed a period of 60 days thereafter in which to begin active work at property with a crew of not less than 4 men working underground, and work must continue, with reasonableclosing down privileges, during life of option.

Royalties to consist of 10% of net smelter returns from ore shipments to be applied on the said purchase price of property.

Also, after active work starts, in case you exercise this option, you will be required to pay to J. C. Townsend a guaranteed royalty of $100 monthly, whether any ore is shipped from property or not.

Furthermore, in the event you makethe said initial payment of $600, then and in that case, I agree to havedrawn in your favor a legal lease and option on the above property.

Again, this offer takes care of all parties concerned in the above offer to you.

For your information, I will reach Kingman again about November 21st, at which time I will expect a letter from you accepting or rejecting the above offer, unless you should need more time in which case we will be glad to cooperate with you in every way. Also for your information, Townsend now has the mine in his own name, so the title is clear in that respect.

Very sincerely yours,

Elgin B. Holt.

cc - J. C. Townsend.

P. O. [illegible] 188,
Kin[illegible] [illegible]rizona.

Mr. J. C. Townsend,
Bouse, Arizona.

Dear Mr. Townsend:

As per our understanding, I am herewith enclosing my check in the sum of $50.00 to be used in completing the assessment work on the Blue Moon and Copper Hill claims.

I am also enclosing the location notices in duplicate for the Blue Moon Nos. 1 & 2, and the Copper Hill claims; together with $3.00 in bills to cover recording fees. Please sign these notices and have them witnessed by Judge Bellum or by some of the Newmans, and send original copies to the Recorders office in Yuma; and as soon as these are returned to you, kindly mail them back to me so I can have a quit claim deed drawn up transferring ½ interest in these claims to my sister, Mrs. Valeria Viscarra, as per our agreement.

I am also sending you some extra location notices for the following purpose: Suggest you locate one, two or more claims covering those gypsum beds to the west of our ground, you spoke of. You will not have to record these notices, nor do the assessment work just yet, until we can find out if this class of gypsum in marketable or not, which is doubtful, as there are many gupsum deposits. Suggest you name these claims: GUPSUM NOS. 1, 2, 3, etc. If we later find we can market the gypsum profitably, we can then do the location work on these claims, or relocate in some other name.

I am writing to Bruce L. Matthews, 610 South Main St., Los Angeles, asking him if there is a ready market for high quality gypsum. Matthews deals in non-metallics and if anyone can place this gyp he can. Copy of letter to him enclosed.

I called at the Beale Hotel here in Kingman last night and was told that Lewis A. Dunham will be back from New York tomorrow. If he has not made a deal on these properties, I will then let you know and we can make other arrangements to work the mine. In that event, I will also write to Mr. Rutherford at Parker and ask him to pay you a visit and look the Blue Moon and Copper Hill claims over. As I told you, Rutherford - A. P. Rutherford - has his own money and is now working a manganese mine profitably located northwest of Parker on the California side. Also, I will put these mines up to others here if necessary.

Very sincerely yours,

Elgin B. Holt.

cc - Mrs. Valeria Viscarra,
3421 Larissa Dbive, 26,
Los Angeles, Calif.

COPY

ELGIN B. HOLT, FIELD ENGINEER
DEPT. OF MINERAL RESOURCES
P. O. BOX 188
KINGMAN, ARIZONA

Oct. 23, 1943

P. O. Box 188,
Kingman, Ariz.

Dear Mr. Townsend:

I am herewith enclosing assay certificate showing results from the grab sample we took from around two tons of ore on the dump at the Blue Moon mine, the same showing that this ore runs:

Gold, 0.20 oz.; silver, 6.20 ozs.; and copper 5.2 per cent.

Following is a rough estimate I have made outlining what profits you should make in shipping car lots of this grade of ore from the said mine to Clarkdale, figuring "Zero A" quota and premium for copper:

PAYMENTS:

Gold - 0.20 oz., at $32.30 per ounce ----------	$6.40
Silver - 6.20 ozs., less 0.5 oz., eq. 5.70 ozs., at 69¢ -	3.93
Copper - 5.20%, eq. 104 lbs., less 8 lbs., eq. 96 lbs., less 5%, eq. 91.2 lbs, at 14.4¢* ----------	13.13
(*17¢ less 2.6¢, marketing chgs., eq. 14.4¢) Total ----------	$23.46

DEDUCTIONS:

Base smelting charge per ton, $3.50 plus 84¢ covering extra charge of 10% of values over $15.00 per ton -----	$4.34	
R. R. freight, Bouse to Clarkdale, per ton ------	2.10 (?)	
Unloading per ton at Clarkdale ----------	.25	- 6.69
Net smelter returns ----------		$16.77
Less trucking per ton from mine to Bouse ----------		1.50
Net per ton of ore shipped -----		$15.27

Undoubtedly you can make good money mining and sorting the surface ores exposed in the open cuts near the deep shaft.

Very sincerely yours,

Elgin B. Holt

cc - Sidney B. Moeur

Box 188,
Ariz.
Dec. 3, 1942

Mr. Lewis A. Dunham,
Engineer's Club,
32 West 40th Street,
New York, N. Y.

Dear Mr. Dunham:

Last Monday, November 29th, I drove up to Chloride and personally delivered the two samples you took at the Blue Moon mine, near Bouse, to Mr. Sharpe, Assayer at the Tennessee mine. Today I received a duplicate assay certificate from Sharpe, of the said samples, and he stated he had mailed you the original certificate; results being as follows:

No.	Au-oz	Ag-oz	Cu-%
1.	0.03	1.82	1.4
2.	0.04	2.38	2.8

Also I have received the results of samples previously taken by me from this property, from Charles A. Diehl, Assayer, Phoenix, Arizona, as follows:

No.	Au-oz	Ag-oz	Cu-%
1.	0.02	0.1	2.71
2.	0.03	0.1	not tested
3.	Tr.	Tr.	7.60

Note: Sample No. 1, taken by me, corresponds to your sample No. 2, and while you will note it checks in copper, you got better results in silver and gold. My sample No. 2 is not important, one way or the other as it is from waste material from the 400-foot shaft - the yellowish pyritic rock we showed you. My sample No. 3 came from about one ton of ore piled on dump at the specular iron prospect hole located 500 feet northwest of the said 400-foot shaft, and shows the best copper of all the samples taken by you and I.

You got a better sample of the upper open cut than I did, so I think we can use the same as a temporary basis for my remarks in this letter. You will remember that my sampling of the 4 tons of sorted ore piled on dump gave the following:

No.	Au-oz	Ag-oz	Cu-%
1.	0.20	6.20	5.20

As per my letter to Townsend of October 23rd, this 4 tons of ore has a value of $23.46 per ton, including Zero "A" premium on copper, ans should net the shipper about $15.27 per ton, not including mining charges.

All in all, it seems to me that neither your nor my sampling were taken of large enough lots of ore, in order to form a definite opinion of what the mine will do as a shipper; so suggest we wait until Mr. Townsend finishes the location work on ore vein in the upper cut, after which we can take another sample of several tons of sorted ore from this work and then we will know definitely what the sorted ore will run.

Broadly speaking, I believe the Blue Moon mine should be judged more from its favorable geologic features rather than from even a careful sampling of oxidized surface ores.

As you noted, the country rock is sedimentary limestone, intruded at frequent intervals by dikes and plugs of andesite.

The so-called vein of this property is a mineralized fault zone, some 25 or 30 feet in width, shearing action being noted on the east side of the zone, or that is the north-east side of the zone for a width of 100 feet, showing seams of oxidized copper ore here and there.

I believe there has been a decided migration of copper values downward and that a zone of secondarily enriched sulphide copper ore, in the nature of chalcocite, bornite, etc., will be found in large replacement deposits at or below water level in the mine, which should come in at about 500 feet depth in the present shaft, when and if this shaft is sunk to that depth and then cross-cuts run to vein.

So it would seem, if still interested after seeing the rather low samples or assays, that it might be well to discuss the following procedure with your people:

Funds to be provided with which to sink on vein, starting in the upper open cut, to a depth of say 100 feet. If the oxidized ore continues to that depth, carrying fair values, though not necessarily shipping values, then and in that event the sahft should be retimbered to bottom, about 400 feet, and then a cross-cut should be run across the entire ore zone mentioned above. In this way undoubtedly an ore vein, fracture or zone will be found, in which event a winze should be sunk on such ore showing to water level in search of high grade copper sulphide ore.

You know the surface oxidized ores of the United Verde Extension were of negligible value; but at around 1400 feet in depth the great bonanza of sulphide ore came in, which made fortunes for the share holders of this property.

The Blue Moon mine has all the ear-marks of a splendid money making copper mine, provided money can be found to open it up in a large way. One main asset in our favor: the shaft is now down 400 feet, and can be used if and when retimbered at no great cost.

Kindly write me giving your reactions about this property. Notwithstanding the rather low assays, do you still think you can finance this property?

Very sincerely yours,

Elgin B. Holt.

cc - J. C. Townsend,
Bouse, Arizona.

COPY

COPY

POWER OF ATTORNEY

SPECIAL

KNOW ALL MEN BY THESE PRESENTS: That Mrs. Valeria Viscarra, residing at 3421 Larissa Drive, Los Angeles 26, California, has made, constituted and appointed, and by these presents does hereby make, constitute and appoint J. C. TOWNSEND, of Bouse, Arizona, her true and lawful attorney, to act for her and in her stead for the following purpose, to-wit:

For and in her name, to lease, bargain, sell, or otherwise dispose of all of her rights, title and interests in and to the following described mining claims, located in the Plomosa Mining District, about 11 miles southerly from Bouse, Yuma County, Arizona; the location notices of said claims being duly recorded in the Book of Mines, in the Office of the County Recorder, of Yuma County, as set forth below:

Name of Claims	Book	Page
Blue Moon No. 1	40	233
Blue Moon No. 2	40	234
Copper Hill	40	235

GIVING AND GRANTING unto her said Attorney her full power and authority to do and perform all and every act and thing whatsoever requisite and necessary to be done in and about the premises as fully to all intents and purposes as she might or could do if personally present, hereby ratifying and confirming all that her said Attorney, J. C. Townsend, shall lawfully do or cause to be done by virtue of these presents.

IN WITNESS WHEREOF, I have hereunto set my hand, the

_____ day of _____, 1944.

_____
Valeria Viscarra.

STATE OF CALIFORNIA)
) SS.
COUNTY OF LOS ANGELES)

Before me, _____, a Notary Public, in and for the County of Los Angeles, State of California, on this day personally appeared Valeria Viscarra, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that she executed the same for the purpose and consideration therein expressed.

Given under my hand and seal of office this _____ day of _____, 1944.

_____
Notary Public

My commission expires _____.

THE ENGINEERS' CLUB
32 WEST 40TH STREET
NEW YORK

Dec 9, 1943

Dear Mr. Holt -

I took up the Blue Moon with Mr. R. E. Whitcher, 25 Broad St who is interested.

He wants a report on the property which I am writing for him.

He may want some modification of option - especially as length of time needed to send his engineer; but I think this will be reasonable.

The prices and terms are all right; I'll keep you informed. I think I must stay here till Dec 16 at least.

Sincerely

Lewis A. Durham.

got the maps ok.

THE ENGINEERS' CLUB
32 WEST 40TH STREET
NEW YORK

New York Dec 25, 1943.

Dear Mr Holt:

Thank you for your wire received yesterday. It was welcome because I had further talks with Mr. Whicher and he first wanted so long an option that I feared nothing doing. However he since changed his attitude after thinking things over, so your wire will no doubt result in his taking action very soon.

I am submitting to him a short report and a letter saying what I think may be the possibilities, both of which papers I can give you copies of, soon as I see you.

I think he'll have an engineer down there early in January and of course I'll advise you when this occurs, so you can watch for him.

I hope to get away now shortly after January 1 so I should see you in Kingman before many days have gone.

Merry Christmas and Happy New Year.

Lewis A. Durham.

CLASS OF SERVICE DESIRED			
DOMESTIC		CABLE	
TELEGRAM		ORDINARY	
DAY LETTER		URGENT RATE	
SERIAL		DEFERRED	
NIGHT LETTER		NIGHT LETTER	

Patrons should check class of service desired; otherwise the message will be transmitted as a telegram or ordinary cablegram.

WESTERN UNION

1207

A. N. WILLIAMS
PRESIDENT

NEWCOMB CARLTON
CHAIRMAN OF THE BOARD

J. C. WILLEVER
FIRST VICE-PRESIDENT

$	CHECK
S	ACCOUNTING INFORMATION
F	TIME FILED

Send the following telegram, subject to the terms on back hereof, which are hereby agreed to

Dec. 23, 1943

To Lewis A. Dunham,

Care of or Apt. No. The Engineers Club,

Street and No. 32 West 40 Street,

Place New York City.

Your letters just returned to Kingman Note price and terms Blue Moon okay, but may need some modifications stop go ahead make best deal possible.

E. B. Holt.

Sender's Name

Address Tel. No.

P. O. Box 188,
Kingman, Arizona,
Dec. 3, 1943.

Mr. J. C. Townsend,
Bouse, Arizona.

Dear Mr. Townsend:

I am herewith enclosing cc of letter I have just written and mailed to Mr. Dunham. Of course the assays from samples taken by he and myself are disappointing; but I have placed the best face possible on theBlue Moon property, with aview to finding out if Dunham might be interested in developing it anyhow and putting on a hunt for rich copper sulphide ores that should come in near water level. I am rather afraid, however he will pass this property up, as the one thing that interested him was the possibility of shipping ore at grass roots.

Of course, I should have thoroughly sampled the ore in place in the vein before putting any money into it; but all that is water over the mill wheel; so we will go right ahead and see what we can do in order to make something out of it.

The main thing is to do the location work on the Blue Moon No. 1 claim as we have planned, that is sink 10 feet on the ore vein in the upper cut. Then we can sample such sorted ore as we get out of that work, have the same assayed, and finally be guilded by results.

I will reach Bouse again on December 14th, and will then talk the matter over with you and make another trip out to the mine.

With kindest regards to both Mrs. Townsend and yourself, I am

Very sincerely yours,

Elgin B. Holt.

249 PAGE 230 AMENDMENT DKT 1252 PG 268 mm-82-5-7

A NC 146889

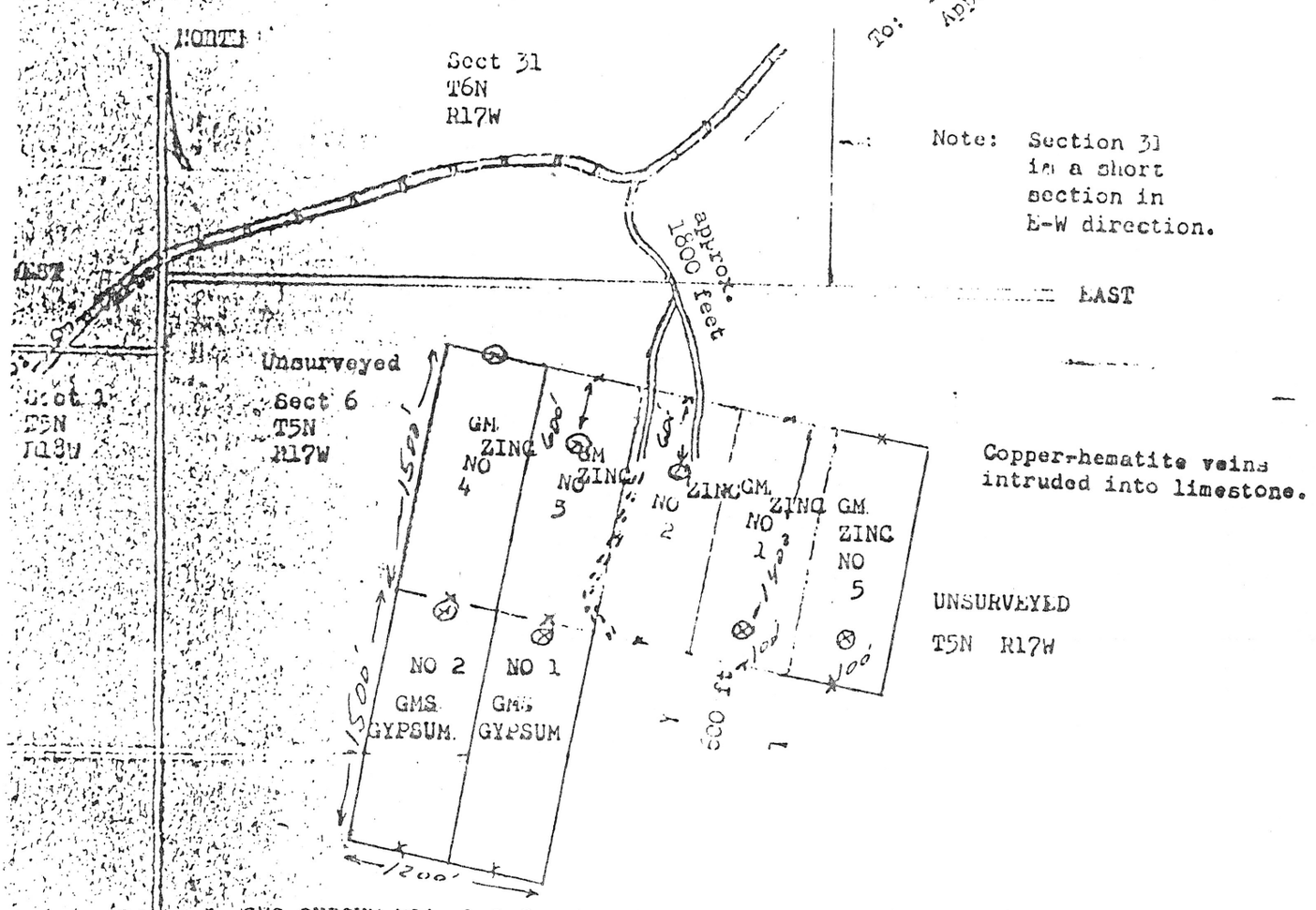
AMENDED - October 16, 1981

LOCATION PLAT OF: GM ZINC MINE NO's 1 thru 5

& GMS GYPSUM MINE NO's 1 & 2

(Note :GMS Mine name changed to GM ZINC)

mm-82-8-0



GMS GYPSUM NO's 1 & 2 - Owned by C. Gingrich, R. C. Mann, & Ed Sloan.

GM ZINC NO's 1 thru 5- " " C. Gingrich, & R. C. Mann.

MAP SCALE - Approx. One (1") INCH equals 990 feet.

LOCATION PLAT OF: GM ZINC MINE NO's 1 thru 5

& GMS GYPSUM NO's 1 & 2.

Located: Approximately 9 miles South West of Rouse, Arizona & 1800 feet South of the Rouse - Quartzite road. Claims are located in the Unsurveyed Section 6 of T5N & R17W in YUMA County, Arizona.

Corners: are 4" x 4" POSTS x 4 feet high Plus 2 Center End Line Posts.

Owners: Mr. C. Gingrich, & Mr. R. C. Mann.

Date: September 27, 1981

As amended October 16, 1981

FILED BY: MR. R. C. MANN
P.O. BOX 156
ROUSE, ARIZ. 85325

ARIZONA STATE OFFICE
BUREAU OF LAND MANAGEMENT

DEC 3-4 1981

7:00 A.M.
PHOENIX, ARIZONA

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

DEPT. MINERAL RESOURCES
RECEIVED
NOV 8 1944
PHOENIX ARIZONA

Mine BLUE MOON GROUP Date November 6, 1944

District Plomosa, Yuma County, Arizona. Engineer Elgin B. Holt,
P. O. Box 188,
Kingman, Arizona.

Subject:

R E P O R T

OWNERS: J. C. Townsend, et al, Bouse, Arizona.

METALS: Copper, gold and silver.

NON-METALLICS: Gypsum, occuring in massive deposits separate from veins which carry copper, gold and silver.

LOCATION: AREA:

The property consists of six mining claims, known as: Blue Moon Nos. 1, 2, 3 & 4, and Copper Hill and Copper Hill No. 1. The group is located about 10 miles south of Bouse, Arizona, with which village it is connected by means of a State maintained highway, which passes within a half mile of property. A dirt road leads from this highway to the various claims of group. There is a loading ramp at Bouse, which is a station on the Santa Fe Railroad. Cost of hauling ore or gypsum from the mine to Bouse is estimated at 50¢ per ton.

HISTORICAL:

In 1889 this property was located by Gustave Mudersbach, who around 1910, gave a lease and option on it to George Mitchell, who was then operating the Swansea Copper Mine, situated 25 miles north of Bouse. Purchase price mentioned in this option was $250,000. Tom Varden was superintendent and sank a vertical shaft on the Blue Moon No. 1 claim to a depth of around 400 feet, and another shaft on the Copper Hill claim to a depth of 200 feet. No cross-cutting at all was done from the bottom of the said 400-foot shaft in order to pick up the main vein, which runs from northwest to southeast and passes within 100 feet of said shaft. But the vein was found by cross-cutting

in the said 200 foot shaft in the Copper H. 1 claim and several carloads of copper ore were shipped to Swansea, where Mitchell was then operating a smelter. Mitchell stopped work at the Blue Moon mine at the time when he closed Swansea down, leaving Blue Moon in a partly developed condition.

The above information was given me by Judge Bellus, who has been a resident of Bouse for a number of years.

GEOLOGY - VEINS:

The primary country rocks within the confines of this group are of sedimentary origin, probably of Permian age, consisting of lime carbonate, shales, etc., which have been intruded by basic igneous dikes. Also, within the Blue Moon claims are large deposits of gypsum, which is a hydrous calcium sulphate, $CaSO_4.2H_2O$. These deposits are no doubt a product of volcanic activity where the sulphuric acid fumes from fumeroles have acted on the lime carbonate beds transforming large areas of the same into gypsum, leaving huge reefs of unaltered lime carbonate traversing the property, and these reefs lie adjacent to beds of almost pure gypsum. One pilot sample of this material taken by me assayed as follows, to-wit:

Lime oxide (CaO)	31.90%
Sulphuric Anhydride (SO_3)	45.71%
Total Water (H_2O)	20.49%
Hydrous calcium sulphate ($CaSO_4.2H_2O$) - gypsum	98.10%

While the gypsum beds mentioned are as yet undeveloped, from surface exposures I would say, by and large, there are hundreds of thousands of tons of this material indicated within the property. Some of it can be removed by open pit methods; but later on underground methods will have to be employed, as the gypsum occurs in well-defined strata which seem to be deep-seated.

CONCLUSION:

As far as the copper showings on this property are concerned, considerable new work will have to be done in order to prove, one way or the other, whether important copper ore reserves exist at deeper levels in this property. In this regard, the first step to take would be to recondition the 400-foot shaft mentioned and then run a cross-cut to vein, from the 400-foot level. On the surface this vein is about 20 feet wide, it being in the nature of a mineralized fault zone. Ore in surface workings is oxidized material, occurring with horses and wedges of brecciated country rock. Four tons of ore on dump, at Blue Moon, assayed as follows:

Gold-oz	Silver-ozs	Copper-%
0.20	6.20	5.20

Another sample taken in place, across about 10 feet of vein width, in a 10-foot holeon vein, near the said 400-foot shaft, assayed:

Gold-oz	Silver-ozs	Copper-%
0.03	1.82	1.4

By running such a cross-cut from the 400-foot level, and by thus cutting the vein at that level, it can be proven once and for all whether the vein at that point has commercial values or not. Also sulphide ores, easily amenable to flotation treatment, should be found, if at all, in the said cross-cut, once the vein is reached.

GYPSUM:

The gypsum deposits on this property seem to have far more potential value than the copper showings. In the first place, the grade of the gypsum, as far as we now know, is excellent. In the second place, a large tonnage is indicated. Thirdly, the gypsum can be trucked to the railroad at Bouse at a low cost. Hence, the only factor to consider, or mainly so, is the market for the gypsum.

Elgin B. Holt

Elgin B. Holt,
Field Engineer.

Salome, Arizona,
October 13, 1944.

Dear Lee:

I am herewith enclosing a power of attorney which please sign and have acknowledged by a Notary Public and mail to J. C. Townsend, Bouse, Arizona.

You own, as my agent, a half interest in the claims mentined in this document. These claims were primarily located, or rather purchased by ourselves, due to the fact that there are several old copper mine workings thereon. Later, we discovered that the Blue Moon claims cover a very large deposit of high grade gypsum, used in soil conditioning, making plaster, wall boards, etc.

We have had two recent and urgent offers for this group from two sets of clients. One outfit has moved onto the ground and is doing test pit work and sampling with a view to establishing a grinding mill at Bouse. Our deal calls for a royalty of $1.00 per ton gross for all gypsum moved from property. Clients are figuring on moving at least 50 tons a day.

Also we have people nibbling with a view to taking over the volcanic ash deposit, near Bouse. But nothing definite as yet on this score; but if we do make a deal on the ash we will also get $1.00 per ton. If a deal results either way, you will, of course, betaken care of in a liberal manner. Genevieve is also in on the volcanic ash; but we may locate this ground, dueto the fact that we took it up as a placer, using 8 names, yours, Bill Johnson's and Gen's name. Also, we put in a fellow by the name of Herb Howard, of Bouse, since deceased which messes up the show. So we will probably relocate this ground as lode claims, and if so, we will use your name and Townsend's.

I am in Salome and will go on to Phoenix next week end and will remain there one week. Back to Kingman at the end of October.

Tell Barbara hello for me and ask her why she did not invite us all to her wedding, which happened the last day I was in L. A. ? Maybe she was gun shy! Or had the buck fever! Anyhow, I wish her all kinds of luck.

Love to all,

P. O. Box 188,
Kingman, Arizona,
Nov. 1, 1944.

Dear Mr. Townsend:

I am herewith enclosing a location notice in duplicate. Post one on the ground indicated in the sketch map hereto attached, or covering the ground paralleling and adjoining the Blue Moon No. 1 claim on the NE. This in order to be sure to take in the so-called LIME REEF, which we sampled. Have not heard from assays yet; but will mail you copies as soon as the same are received, from both Phoenix and Los Angeles.

I left the number of this claim in blank, which please fill in.

Today I met a Mr. MacDonald, who is working a limestone deposit near Chubbuck, California, for the Kaiser Company. Crushed limestone (lime carbonate) is shipped to Fontana Steel Works for fluxing purposes. I showed him a piece of the "crystaline gypsum". He said it might be lime carbonate and if so it is worth more than the gyp. He wants me to send him the analysis of the samples we are waiting for and if it is the right stuff he wants to come and take a look see.

Anyhow, I think we have a good set-up, that is speaking for yourself and associates, who are my friends. So better spend a day or two out there and locate all showings of gypsum and crystaline gyp or lime, whatever it may be.

Again, I saw McQueen and Clara and told them of your offer, and that they had better see you, as you are doing the dealing. So they went out last Sunday to see you. I told them that you want action and that you would expect McQueen to do a bit of "performing", if he expects to hold his option. All in all, I do not want to offend the Parker people; so will leave it to you to handle this matter all around. However, if the Parker people fall down, let us go slow about giving anyone else any option at all until they have some ready cash to lay on the line. Then, let us makeit the first requisite for them to do the location work on the new claims.

Expect to arrive in Bouse the afternoon of November 14th; but write me at once what arrangements, if any, did you make with Clara.

Sincerely yours,

Elgin B. Holt

cc - Valeria Viscarra

PHO[illegible], ARIZONA Nov [illegible]7,1[illegible]3. [illegible], 194[illegible]

Mr. J. C. Townsend

IN ACCOUNT WITH

ARIZONA ASSAY OFFICE

CHAS. A. DIEHL

PHONE 3-4001 815 NORTH FIRST STREET P. O. BOX 1148

Nov.	27	2 gold silver coppers	$4.00		
		1 gold silver	1.25		
		Total	$5.25		

Samples arrived late on Saturday

Paid by check #126 12/3/43

No. 180 To

Phoenix, Arizona,

Nov. 27, 1943.

CHAS. A. DIEHL

ARIZONA ASSAY OFFICE

Phone 3-4001 | 815 North First Street | P. O. Box 1148

This Certifies That samples submitted for assay by Mr. J. C. Townsend. contain as follows per ton of 2000 lbs. Avoir.

MARKS	SILVER Ounces	SILVER Tenths	VALUE (Oz.)	GOLD Ounces	GOLD Hundths	VALUE (Oz.)	TOTAL VALUE Of Gold and Silver	% PERCENTAGE COPPER	REMARKS
BLUE MOON MINE									
1	.1				.02	$.70		2.71	
2	.1				.03	$1.05			
3	Trace			Trace				7.60	

Charges $ 5.25

Assayer ARIZONA ASSAY OFFICE

No. 155 De

Blue moon

Phoenix, Arizona,
Oct. 30, 1944.

DEPT. MINERAL RESOURCES
RECEIVED
OCT 1 1944
PHOENIX, ARIZONA

CHAS. A. DIEHL

ARIZONA ASSAY OFFICE

Phone 3-4001 — 815 North First Street — P. O. Box 1148

This Certifies *That samples submitted for assay by* Dep't of Mineral Resources *contain as follows per ton of 2000 lbs. Avoir.*

MARKS	SILVER Ounces	SILVER Tenths	VALUE (Oz.)	GOLD Ounces	GOLD Hundths	VALUE (Oz.)	TOTAL VALUE Of Gold and Silver	PERCENTAGE CaO	PERCENTAGE SO_3	PERCENTAGE H_2O		REMARKS
E.B.Holt.								49.02	.10	.37		

Charges $ 4.50

Assayer ARIZONA ASSAY OFFICE

Samples Not Kept Over 30 Days Except By Request

Samples Sent Us By Mail Will Receive Prompt Attention

CERTIFICATE OF ASSAY FROM LABORATORY OF

R. V. McALLISTER

ASSAYERS, CHEMISTS, METALLURGISTS

FRONT STREET

KINGMAN, ARIZONA

Flotation Tests

Cyanide Tests

Phone Blue 252

Dept. of Mineral Resources

Oct. 22, 1943 194

MOHAVE MINER PRINT

Office Number	Owner's Mark	Gold, Per Ton		Silver, Per Ton		Total Value Gold & Silver	Copper Per Cent	Lead Per Cent	Zinc Per Cent	Per Cent
		Ounces	Value	Ounces	Value					
11024	Blue Moon Mine	0.20		6.20			5.20			

REGISTERED ASSAYER CERTIFICATE EXPIRES R. V. McALLISTER DEC. 31, 19[illegible] ARIZONA, U.S.A.

Gold $35 Per Ounce

Silver 71 Cents Per Ounce

Charges 2.00

R V McAllister REGISTERED ASSAYER

Dec. 30, 1943

P. O. Box 188,
Kingman, Ariz.

Mr. Lewis A. Dunham,
Mining Engineer,
The Engineer's Club,
32 West 40th Street,
New York.

Dear Mr. Dunham:

I am pleased to receive your air mail letter of December 25th, as well as to note the conversations you have had with Mr. Whicher which may result in him sending an engineer early during January to examine the Blue Moon mine.

While others have made recent enquiries about this property, rest assured, Mr. Dunham, we will leave the mine in your hands until you have finished dealing with clients there. I am too old in the mining business to try to hurry up a mining deal. It cannot be done; so, as sated in my wire, "Go right ahead and make the best deal you can."

While I was at Bouse around 10 days ago, Townsend had two men sinking a shaft in the upper cut at Blue Moon, or the place where you cut sample number 2. These men had just started and the ore in the bottom of their work looked good. They were segregating the shipping ore and piling it on the dump.

As I have pointed out to you a number of times, the main problem at Blue Moon is to adequately finance the development of a large underground supply of milling or shipping ore in the sulphide ore zone, which should be found at water level somewhat deeper than the bottom of the 400' shaft. That such sulphide ore will be found is attested by the iron and copper pyrite we picked up on the dump of said shaft and which came from country rock material adjacent to the vein.

Also while I was last in Bouse, I had a talk with Judge Bellus who built the head frame at Blue Moon years ago when the mine was operating. Here is his story:

"In 1889 this property was located by Gustave Mudersbach, who, around 1910, gave a lease and option on property to George Mitchell, who was then operating the Swansea copper mine; purchase price mentioned in this option was $250,000. Tom Varden was Superintendent and sank the vertical shaft to a depth of around 400 feet, and another shaft on the Copper Hill claim

which is a part of the Blue Moon group, to a depth of 200'. No cross-cutting at all was done from the bottom of the said 400-foot shaft in order to pick up the main vein. But the vein was found by cross-cutting in the 200-foot shaft at Copper Hill and two cars of copper ore was shipped to Swansea, at which Mitchell was then operating a smelter.

"Also Mitchell stopped work at BlueMoon at thetime when Swansea was closed down."

This is, more or less, what Bellus had to say about the Blue Moon mine.

Another thing, since you were at this property, an engineer representing the U. S. Bureau of Mines visited it with Townsend and was very much pleased with the same. He stated his opinion was that a lot of copper sup found deeper in the mine, a

For your information, I will remain in Kingman until Sunday, January 9th, on which date I will again leave for Parker. On January the 11th, I will reach Bouse and after that I will work on south to Yuma and other points and will be back here in Kingman about January 23rd.

Wishing you a happy and prosperous New Year, and with kindest regards, I am

Sincerely yours,

Elgin B. Holt

cc - J. C. Townsend,
Bouse, Arizona.

COPY

Bouse, Arizona,
Nov. 16, 194[illegible]

Mr. Lewis A. Dunham,
Beale Hotel,
Kingman, Arizona.

Dear Mr. Dunham:

As per my wire to you of today, I have made the following firm contract in your favor with Mr. J. C. Townsend, Bouse, Arizona, owner of the Blue Moon Mining Claims Nos. 1 & 2, located in the Plomosa Mining District, Yuma County, Arizona, about 8 miles south of Bouse:

He has authorized me as his agent to grant you an option on said property under the following terms, to-wit:

Purchase price ----------	$30,000.00

Purchase payments to be met in the following manner:

On or before 30 days from date ----------	$600.00
On or before 14 months from date ----------	$5,000.00
On or before two years from date ----------	10,400.00
On or before three years from date --------	14,000.00
Total ---------	$30,000.00

Upon the payment of the said $600 cash, you will be allowed a period of 60 days thereafter in which to begin active work at property with a crew of not less than 4 men working underground, and work must continue, with reasonableclosing down privileges, during life of option.

Royalties to consist of 10% of net smelter returns from ore shipments to be applied on the said purchase price of property.

Also, after active work starts, in case you exercise this option, you will be required to pay to J. C. Townsend a guaranteed royalty of $100 monthly, whether any ore is shipped from property or not.

Furthermore, in the event you makethe said initial payment of $600, then and in that case, I agree to havedrawn in your favor a legal lease and option on the above property.

Again, this offer takes care of all parties concerned in the above offer to you.

For your information, I will reach Kingman again about November 21st, at which time I will expect a letter from you accepting or rejecting the above offer, unless you should need more time in which case we will be glad to cooperate with you in every way. Also for your information, Townsend now has the mine in his own name, so the title is clear in that respect.

Very sincerely yours,

Elgin B. Holt.

cc - J. C. Townsend.

P. O. Box 188,
Kingman, Arizona.

Mr. J. C. Townsend,
Bouse, Arizona.

Dear Mr. Townsend:

As per our understanding, I am herewith enclosing my check in the sum of $50.00 to be used in completing the assessment work on the Blue Moon and Copper Hill claims.

I am also enclosing the location notices in duplicate for the Blue Moon Nos. 1 & 2, and the Copper Hill claims; together with $3.00 in bills to cover recording fees. Please sign these notices and have them witnessed by Judge Bellum or by some of the Newmans, and send original copies to the Recorders office in Yuma; and as soon as these are returned to you, kindly mail them back to me so I can have a quit claim deed drawn up transferring ½ interest in these claims to my sister, Mrs. Valeria Viscarra, as per our agreement.

I am also sending you some extra location notices for the following purpose: Suggest you locate one, two or more claims covering those gypsum beds to the west of our ground, you spoke of. You will not have to record these notices, nor do the assessment work just yet, until we can find out if this class of gypsum in marketable or not, which is doubtful, as there are many gupsum deposits. Suggest you name these claims: GUPSUM NOS. 1, 2, 3, etc. If we later find we can market the gypsum profitably, we can then do the location work on these claims, or relocate in some other name.

I am writing to Bruce L. Matthews, 610 South Main St., Los Angeles, asking him if there is a ready market for high quality gypsum. Matthews deals in non-metallics and if anyone can place this gyp he can. Copy of letter to him enclosed.

I called at the Beale Hotel here in Kingman last night and was told that Lewis A. Dunham will be back from New York tomorrow. If he has not made a deal on these properties, I will then let you know and we can make other arrangements to work the mine. In that event, I will also write to Mr. Rutherford at Parker and ask him to pay you a visit and look the Blue Moon and Copper Hill claims over. As I told you, Rutherford - A. P. Rutherford - has his own money and is now working a manganese mine profitably located northwest of Parker on the California side. Also, I will put these mines up to others here if necessary.

Very sincerely yours,

Elgin B. Holt.

cc - Mrs. Valeria Viscarra,
3421 Larissa Drive, 26,
Los Angeles, Calif.

COPY

ELGIN B. HOLT, FIELD ENGINEER
DEPT. OF MINERAL RESOURCES
P. O. BOX 188
KINGMAN, ARIZONA

Oct. 23, 1943

P. O. Box 188,
Kingman, Ariz.

Dear Mr. Townsend:

I am herewith enclosing assay certificate showing results from the grab sample we took from around two tons of ore on the dump at the Blue Moon mine, the same showing that this ore runs:

Gold, 0.20 oz.; silver, 6.20 ozs.; and copper 5.2 per cent.

Following is a rough estimate I have made outlining what profits you should make in shipping car lots of this grade of ore from the said mine to Clarkdale, figuring "Zero A" quota and premium for copper:

PAYMENTS:

Gold - 0.20 oz., at $32.30 per ounce ----------	$6.40
Silver - 6.20 ozs., less 0.5 oz., eq. 5.70 ozs., at 69¢ -	3.93
Copper - 5.20%, eq. 104 lbs., less 8 lbs., eq. 96 lbs., less 5%, eq. 91.2 lbs, at 14.4¢* ----------	13.13
(*17¢ less 2.6¢, marketing chgs., eq. 14.4¢) Total ----------	$23.46

DEDUCTIONS:

Base smelting charge per ton, $3.50 plus 84¢ covering extra charge of 10% of values over $15.00 per ton -----	$4.34	
R. R. freight, Bouse to Clarkdale, per ton ------	2.10 (?)	
Unloading per ton at Clarkdale ----------	.25	- 6.69
Net smelter returns ----------		$16.77
Less trucking per ton from mine to Bouse ----------		1.50
Net per ton of ore shipped -----		$15.27

Undoubtedly you can make good money mining and sorting the surface ores exposed in the open cuts near the deep shaft.

Very sincerely yours,

Elgin B. Holt

cc - Sidney B. Moeur

P. O. Box 188,
Kingman, Ariz.
Dec. 3, 1943

Mr. Lewis A. Dunham,
Engineer's Club,
32 West 40th Street,
New York, N. Y.

Dear Mr. Dunham:

Last Monday, November 29th, I drove up to Chloride and personally delivered the two samples you took at the Blue Moon mine, near Bouse, to Mr. Sharpe, Assayer at the Tennessee mine. Today I received a duplicate assay certificate from Sharpe, of the said samples, and he stated he had mailed you the original certificate; results being as follows:

No.	Au-oz	Ag-oz	Cu-%
1.	0.03	1.82	1.4
2.	0.04	2.38	2.8

Also I have received the results of samples previously taken by me from this property, from Charles A. Diehl, Assayer, Phoenix, Arizona, as follows:

No.	Au-oz	Ag-oz	Cu-%
1.	0.02	0.1	2.71
2.	0.03	0.1	not tested
3.	Tr.	Tr.	7.60

Note: Sample No. 1, taken by me, corresponds to your sample No. 2, and while you will note it checks in copper, you got better results in silver and gold. My sample No. 2 is not important, one way or the other as it is from waste material from the 400-foot shaft - the yellowish pyritic rock we showed you. My sample No. 3 came from about one ton of ore piled on dump at the specular iron prospect hole located 500 feet northwest of the said 400-foot shaft, and shows the best copper of all the samples taken by you and I.

You got a better sample of the upper open cut than I did, so I think we can use the same as a temporary basis for my remarks in this letter. You will remember that my sampling of the 4 tons of sorted ore piled on dump gave the following:

No.	Au-oz	Ag-oz	Cu-%
1.	0.20	6.20	5.20

As per my letter to Townsend of October 23rd, this 4 tons of ore has a value of $23.46 per ton, including Zero "A" premium on copper, ans should net the shipper about $15.27 per ton, not including mining charges.

All in all, it seems to me that neither your nor my sampling were taken of large enough lots of ore, in order to form a definite opinion of what the mine will do as a shipper; so suggest we wait until Mr. Townsend finishes the location work on ore vein in the upper cut, after which we can take another sample of several tons of sorted ore from this work and then we will know definitely what the sorted ore will run.

Broadly speaking, I believe the Blue Moon mine should be judged more from its favorable geologic features rather than from even a careful sampling of oxidized surface ores.

As you noted, the country rock is sedimentary limestone, intruded at frequent intervals by dikes and plugs of andesite.

The so-called vein of this property is a mineralized fault zone, some 25 or 30 feet in width, shearing action being noted on the east side of the zone, or that is the north-east side of the zone for a width of 100 feet, showing seams of oxidized copper ore here and there.

I believe there has been a decided migration of copper values downward and that a zone of secondarily enriched sulphide copper ore, in the nature of chalcocite, bornite, etc., will be found in large replacement deposits at or below water level in the mine, which should come in at about 500 feet depth in the present shaft, when and if this shaft is sunk to that depth and then cross-cuts run to vein.

So it would seem, if still interested after seeing the rather low samples or assays, that it might be well to discuss the following procedure with your people:

Funds to be provided with which to sink on vein, starting in the upper open cut, to a depth of say 100 feet. If the oxidized ore continues to that depth, carrying fair values, though not necessarily shipping values, then and in that event the shaft should be retimbered to bottom, about 400 feet, and then a cross-cut should be run across the entire ore zone mentioned above. In this way undoubtedly an ore vein, fracture or zone will be found, in which event a winze should be sunk on such ore showing to water level in search of high grade copper sulphide ore.

You know the surface oxidized ores of the United Verde Extension were of negligible value; but at around 1400 feet in depth the great bonanza of sulphide ore came in, which made fortunes for the share holders of this property.

The Blue Moon mine has all the ear-marks of a splendid money making copper mine, provided money can be found to open it up in a large way. One main asset in our favor: the shaft is now down 400 feet, and can be used if and when retimbered at no great cost.

Kindly write me giving your reactions about this property. Notwithstanding the rather low assays, do you still think you can finance this property?

Very sincerely yours,

Elgin B. Holt.

cc - J. C. Townsend,
Bouse, Arizona.

COPY

POWER OF ATTORNEY

SPECIAL

KNOW ALL MEN BY THESE PRESENTS: That Mrs. Valeria Viscarra, residing at 3421 Larissa Drive, Los Angeles 26, California, has made, constituted and appointed, and by these presents does hereby make, constitute and appoint J. C. TOWNSEND, of Bouse, Arizona, her true and lawful attorney, to act for her and in her stead for the following purpose, to-wit:

For and in her name, to lease, bargain, sell, or otherwise dispose of all of her rights, title and interests in and to the following described mining claims, located in the Plomosa Mining District, about 11 miles southerly from Bouse, Yuma County, Arizona; the location notices of said claims being duly recorded in the Book of Mines, in the Office of the County Recorder, of Yuma County, as set forth below:

Name of Claims	Book	Page
Blue Moon No. 1	40	233
Blue Moon No. 2	40	234
Copper Hill	40	235

GIVING AND GRANTING unto her said Attorney her full power and authority to do and perform all and every act and thing whatsoever requisite and necessary to be done in and about the premises as fully to all intents and purposes as she might or could do if personally present, hereby ratifying and confirming all that her said Attorney, J. C. Townsend, shall lawfully do or cause to be done by virtue of these presents.

IN WITNESS WHEREOF, I have hereunto set my hand, the

_____ day of _____, 1944.

_____
Valeria Viscarra.

STATE OF CALIFORNIA)
) SS.
COUNTY OF LOS ANGELES)

Before me, _____, a Notary Public, in and for the County of Los Angeles, State of California, on this day personally appeared Valeria Viscarra, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that she executed the same for the purpose and consideration therein expressed.

Given under my hand and seal of office

this _____ day of _____, 1944.

_____
Notary Public

My commission expires _____.

THE ENGINEERS' CLUB
32 WEST 40TH STREET
NEW YORK

Dec 9, 19x3

Dear Mr. Holt -

I took up the Blue Moon with Mr. R. E. Whicher, 25 Broad St who is interested.

He wants a report on the property which I am writing for him.

He may want some modification of option - especially as length of time needed to send his engineer; but I think this will be reasonable.

The price and terms are all right; I'll keep you informed. I think I must stay here till Dec 16 at least.

Sincerely

Francis A. Durham.

got the maps ok.

THE ENGINEERS' CLUB
32 WEST 40TH STREET
NEW YORK

New York Dec 25, 1943.

Dear Mr Holt:

Thank you for your wire received yesterday. It was welcome because I had further talks with Mr. Whicher and he first wanted so long an option that I feared nothing doing. However he since changed his attitude after thinking things over, so your wire will no doubt result in his taking action very soon.

I am submitting to him a short report and a letter saying what I think may be the possibilities, both of which papers I can give you copies of, soon as I see you.

I think he'll have an engineer down there early in January and of course I'll advise you when this occurs, so you can watch for him.

I hope to get away now shortly after January 1 so I should see you in Kingman before many days have gone.

Merry Christmas and Happy New year.

Lewis A. Dunham.

CLASS OF SERVICE DESIRED			
DOMESTIC		CABLE	
TELEGRAM		ORDINARY	
DAY LETTER		URGENT RATE	
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NIGHT LETTER		NIGHT LETTER	

Patrons should check class of service desired; otherwise the message will be transmitted as a telegram or ordinary cablegram.

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A. N. WILLIAMS
PRESIDENT

NEWCOMB CARLTON
CHAIRMAN OF THE BOARD

J. C. WILLEVER
FIRST VICE-PRESIDENT

CHECK

$

ACCOUNTING INFORMATION

S

TIME FILED

F

Send the following telegram, subject to the terms on back hereof, which are hereby agreed to

Dec. 23, 1943

To Lewis A. Dunham,

Care of or Apt. No. The Engineers Club,

Street and No. 32 West 40 Street,

Place New York City.

Your letters just returned to Kingman
Note price and terms Blue Moon
okay, but may need some modifications
stop go ahead make best deal
possible.

E. B. Holt.

Sender's Name

Address Tel. No.

P. O. Box 188,
Kingman, Arizona,
Dec. 3, 1943.

Mr. J. C. Townsend,
Bouse, Arizona.

Dear Mr. Townsend:

I am herewith enclosing cc of letter I have just written and mailed to Mr. Dunham. Of course the assays from samples taken by he and myself are disappointing; but I have placed the best face possible on theBlue Moon property, with aview to finding out if Dunham might be interested in developing it anyhow and putting on a hunt for rich copper sulphide ores that should come in near water level. I am rather afraid, however he will pass this property up, as the one thing that interested him was the possibility of shipping ore at grass roots.

Of course, I should have thoroughly sampled the ore in place in the vein before putting any money into it; but all that is water over the mill wheel; so we will go right ahead and see what we can do in order to make something out of it.

The main thing is to do the location work on the Blue Moon No. 1 claim as we have planned, that is sink 10 feet on the ore vein in the upper cut. Then we can sample such sorted ore as we get out of that work, have the same assayed, and finally be guilded by results.

I will reach Bouse again on December 14th, and will then talk the matter over with you and make another trip out to the mine.

With kindest regards to both Mrs. Townsend and yourself, I am

Very sincerely yours,

Elgin B. Holt.

COPY