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PRINTED: 11/19/2001

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: LINDEN MINES

ALTERNATE NAMES:

YAVAPAI COUNTY MILS NUMBER: 1132

LOCATION: TOWNSHIP 13 N RANGE 2 W SECTION 27 QUARTER NW
LATITUDE: N 34DEG 28MIN 45SEC LONGITUDE: W 112DEG 27MIN 30SEC
TOPO MAP NAME: GROOM CREEK - 7.5 MIN

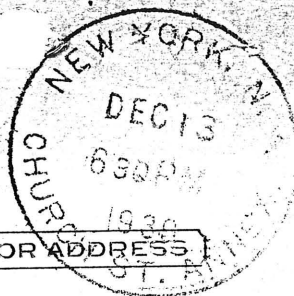
CURRENT STATUS: EXP PROSPECT

COMMODITY:

GOLD
SILVER
LEAD
COPPER

BIBLIOGRAPHY:

ADMMR LINDEN MINES FILE



THIS SIDE OF CARD IS FOR ADDRESS

Mr J. S. Couper

520 1st Fl. & Trust Bldg

Capitol Bldg Phoenix
Room 119-121 ST
Arizona

The Linden Mine 8 miles S.E. of Prescott lying along
both banks of Grover Cr. It 350 acres, auto road
from Prescott. E. H. Crabtree E. m. reported that on
the Golden Chief vein is developed a 65' shaft on a 6'
vein - one of the highest grade veins of the property.
Could this be verified thru your connections? If so
I can get property examined, and if Crabtree's re-
port is substantiated I can get the capital needed
to take over and operate. This is real, and might
be worth your attention. Possibly one or more of
your associates may know the property. - Linden
has owned the group for 12 yrs. I can also contest
7 adjoining claims known as the Grover claims
2 Reator
Dec 13. 9

Sincerely

Henry Leeds

Specimen of the other veins
5127 11/14/99 about 100 ft

May 27, 1957

LINDEN MINES

YAVAPAI COUNTY

No information on this property.

MARK GEMMILL

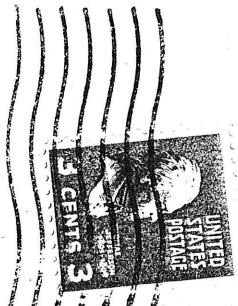
DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
304 HOME BUILDERS BUILDING
PHOENIX, ARIZONA

Handwritten signature

RETURNED TO
SENDER
REASON CHECKED
Undelivered
No return address
Moved, let to address
No return address
Arizona



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DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

ML-27

Date May 27, 1940

1. Mine Linden Mines
 2. Mining District & County Groom Creek
Yavapai County
 3. Former name
 4. Location 8 miles SW of Prescott
 5. Owner Prof. Linden
 6. Address (Owner) Prescott, Arizona
 7. Operator
 8. Address (Operator)
 9. President
 10. Gen. Mgr.
 11. Mine Supt.
 12. Mill Supt.
 13. Principal Metals Gold and Silver
Iron, Lead, Copper
 14. Men Employed
 15. Production Rate
 16. Mill: Type & Cap.
 17. Power: Amt. & Type
 18. Operations: Present Not operating
- Electric power is available
at the property.
19. Operations Planned
 20. Number Claims, Title, etc. 19 claims. Cottonwood, Turner, Golden Chief, Admiral,
Vera, Maud, Saw Mill #1, 2, 3, Opportunity #1, #2, #3, #4, #5,
La Plata #1, #2, and Midas #1, #2.
 21. Description: Topography & Geography
 22. Mine Workings: Amt. & Condition Cottonwood vein, 200' tunnel and 3 shafts, deposit being
60'. Admiral vein 350' tunnel, 60' winze and 100'
raise, Turner vein 70' crosscut, Golden Chief vein 65' shaft. Vera vein
100' crosscut, 60' shaft, shallow workings.

23. Geology & Mineralization ssures in Pre Cambrian rocks v ing in width from 10 to 20'
highly silicified carrying gold and silver, sulphides of
iron, lead and copper in surface ores in limited quantities. Expect
heavy sulphides at depth.

24. Ore: Positive & Probable, Ore Dumps, Tailings Impossible with present state of development
to state any ore blocked out.

24-A Vein Width, Length, Value, etc. Veins remarkedly uniform - 4 parallel - traceable on
surface for several thousand feet. Vera vein protudes
10 to 15' above surrounding topography - values from
\$3.00 to \$300.00

25. Mine, Mill Equipment & Flow Sheet No equipment on property.

26. Road Conditions, Route Excellent road from Prescott.

27. Water Supply Assured water supply for all purposes.

28. Brief History

29. Special Problems, Reports Filed

30. Remarks

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

32. Signed..... Wm. Linden From report by
E. H. Crabtree, E. M.

33. Use additional sheets if necessary.

PHONE
MUTUAL 1610

BROADWAY ARCADE BLDG.
542 S. BROADWAY

L. G. MOORE
ATTORNEY AT LAW
LOS ANGELES, CALIF.

February 3rd 1936

Mr. Charles H. Dunning
Route 1
Phoenix,
Arizona.

Dear Mr. Dunning:-

IN RE FLOYD M. HINSHAW

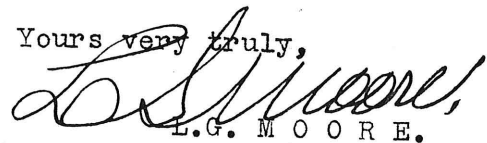
In furtherance of this matter.

I have received a check from Mr. Hinshaw, accompanied by the following(enclosed) letter. Apparently he is a stickler for getting matters closed in good shape.

Please execute the enclosed release before a Notary and return to me, retaining a copy for your file if you wish. Also return to him, Room 797, 222 South Hill, the Prospectus which he mentions in his letter. Send me advise when you have done so. I will deliver the release to him.

As soon as this has been accomplished, and his check has cleared, will mail you a check as per my letter of January 22nd 1936

Yours very truly,


L.G. MOORE.

M/l

P.S. On second thought, suggest that you return the Prospectus and other data to me, and I will obtain a receipt for same from him.

L.G.M.

F. M. HINSHAW
Attorney-at-Law
207 S. Broadway Rm.B-28
Los Angeles, California.

Los Angeles, California,
January 31, 1936.

Mr. L. G. Moore, Attorney-at-Law,
Broadway Arcade Building,
542 South Broadway,
Los Angeles, California.

Dear Sir:

Re; Charles H. Dunning.

In answer to your communication on above subject under date of the 29th instant, I am enclosing herewith check of Seven Associates Mining Co. Ltd. in the sum of One Hundred Twenty-Five Dollars (\$125.00), drawn in your favor, and which you are authorized to use and deliver when you can obtain from Mr. Dunning an executed receipt, form of which is attached hereto, and which has been signed by Mr. Dunning and his signature is acknowledged before a Notary Public, and also upon the condition that you obtain return from Mr. Dunning of a prospectus containing maps and other data relative to the Linden Mining Group.

Very truly yours,

SEVEN ASSOCIATES MINING CO. LTD.,

By _____
Secretary.

FMH
MKK

RELEASE AND SATISFACTION

Phoenix, Arizona,
February_____, 1936.

I, CHARLES H. DUNNING, hereby acknowledge receipt of One Hundred Twenty-five Dollars (\$125.00) from the Seven Associates Mining Co. Ltd., an Arizona Corporation, and which amount I acknowledge to be a full and complete satisfaction of all claims of every kind and nature which I may now have or hereafter acquire against the Seven Associates Mining Co. Ltd., particular reference being had to my services as a Mining Engineer and performed upon what is known as the Linden Group of Mining Claims located approximately seven miles Southeasterly of Prescott, Arizona, in the Groom Creek Section of the Hassayampa Mining District, Yavapai County, Arizona.

State of Arizona)

ss.

County of

On this_____day of February, 1936, before me,

a Notary Public in and for said County, personally appeared

known to me to be the person whose name is subscribed to the above instrument, and acknowledged that he executed the same.

WITNESS my hand and official seal.

Notary Public in and for said
County and State.

20 March 1940

Mr. Henry Leeds,
Two Rector Street,
New York City, New York.

Dear Mr. Leeds:

I must apologize for not having answered your letter regarding the Linden property more in detail.

Carl Barth has made several attempts to get on to the property with Professor Linden, but unsuccessfully. He states that the property has been listed from time to time by various people and no particularly favorable results have come from their work - they working for a short time and then dropping it.

Under these conditions, it would seem that it was questionable what could be done with it.

I have a report by Mr. Crabtree written in December, 1933, which makes interesting reading and makes it seem as though the property might be worth intensive examination and the spending of some money to find out whether or not the property is worthy of operation.

From information on hand, we can make no definite statement at this time.

I see Mr. Gibson every once in a while, and we usually talk about you, and I hope that you will be out with us taking an active part in mining here.

With best wishes, I am

Yours very truly,

J. S. Coupal
Director

JSC-jrf

Prescott, December 29, 1939

MEMORANDUM

Re- LINDEN MINE

I made an attempt to visit the above property to-day but found the roads impassible due to snow.

If we have no more snow for the winter I may be able to visit it and make the requested report.

As mentioned yesterday I have a report made by a Mr. Crabtree covering some several pages but I believe your inquirer must also have a copy as the statement you made concerning a 65 foot shaft and a 6 foot vein are the very words used in this report.

This property has been held by Professor Linden for many years and it has been leased from time to time with no particular results each leaser having worked for a short time and then dropped it. What is the answer?

Linden is now living on an Old Age Pension.

Carl G. Barth, Jr.

Re- Linden Property

Old man Linden has not been contacted without whom it is impossible for me to make an examination. I have just read a report on the property made in 1936 by a Crabtree and have made some notes but I presume the same information is in the hands of the inquirer. I have the Cops out looking for him now.

News.

Scarce as hens teeth though there are some interesting rumors that have not been verified.

Carl G. Barth, Jr.

BOARD OF GOVERNORS:
CHARLES F. WILLIS, PHOENIX
CHAIRMAN
DR. N. H. MORRISON, PHOENIX
VICE-CHAIRMAN
A. C. W. BOWEN, WINKELMAN
SHELTON G. DOWELL, DOUGLAS
J. HUBERT SMITH, KINGMAN

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
CAPITOL BUILDING
PHOENIX, ARIZONA



J. S. COUPAL, PHOENIX
DIRECTOR
W. J. GRAHAM, PHOENIX
ASSISTANT TO THE DIRECTOR
AND SECRETARY TO THE
BOARD OF GOVERNORS
FIELD OFFICES AT
GLOBE - KINGMAN
PRESCOTT - TUCSON

REPLY TO

Dec. 23, 1939

Dear Jess:—

Re. The Linden Mine.

I have known of it for years
and the owner, Professor Linden
has gone screwy on the property.
Now however as you ask me
I shall visit it.

I'll send everything until
you hear from me.

Carl G. Birk Jr

Phoenix, Arizona, 18 December 1939

M E M O R A N D U M

TO CARL G. BARTH, JR:

I am today in receipt of a communication addressed to Mr. Coupal regarding THE LINDEN MINE, located 8 miles Southeast of Prescott, lying along both banks of Groom Creek, 350 acres, auto road from Prescott. It is reported that on the Golden Chief vein is developed a 65' shaft on a 6' vein - one of the highest grade veins of the property.

It is desired that this information be verified. Will you please inspect the property and make a thorough report on it.

As this is important, I should suggest that the report be made as soon as convenient - together with thorough inspection, etc.

Jess R. Fickas

jrf.

18 December 1939

Mr. Henry Leeds,
Two Hector Street,
New York City, New York.

My dear Mr. Leeds:

In the absence of Mr. Coupal, who is in the east, I am taking the liberty of acknowledging receipt of your card of December 3.

I am today referring the matter to Mr. Carl G. Barth, field engineer in that district. As soon as a report is received from him, I shall forward it to you.

Yours very truly,

Jess R. Fickas
Secretary to Mr. Coupal

jrf.

CC- Carl G. Barth, Jr.

Should like to have this for
Department files Carl G. Barth Jr. *Dr. Prof. Linden says*
YMS

BRIEF REPORT

ON THE

LINDEN MINES LOCATED ON

GROOM CREEK DISTRICT, YAVAPAI COUNTY

ARIZONA

WRITTEN BY

E. H. CRABTREE, E.M. DECEMBER 15, 1933

Presented to
Property of Dept. Mineral Resources

N.B. PLEASE RETURN THIS REPORT TO WM. LINDEN

PRESCOTT, ARIZONA

DEPARTMENT OF MINERAL RESOURCES,
STATE OF ARIZONA
CARL G. BARTH, JR.
FIELD ENGINEER
PRESCOTT, ARIZONA

BRIEF REPORT ON THE LINDEN MINE
OF THE LINDEN MINING COMPANY

LOCATION: The gold mining property known as the "Linden Mine" is situated about eight miles southwest of Prescott, Arizona, the County Seat of Yavapai County and the principal railway and supply point of the district.

ECONOMIC CONDITIONS: The property under discussion is ideally situated for economical operation and can be equipped, developed, and operated at a minimum expense.

Lying along both banks of Groom Creek, there is an assured water supply for all purposes and the timber on the claims is sufficient for all requirements of the operation for many years.

The property is reached over an excellent automobile road from Prescott.

AREA: The group comprises the following claims, totaling approximately 350 acres, and named in the order of their importance:

COTTONWOOD	VERA	OPPORTUNITY #1	LA PLATA #1
TURNER	MAUD	OPPORTUNITY #2	LA PLATA #2
GOLDEN CHIEF	MABEL	OPPORTUNITY #3	MIDAS #1
ADMIRAL	SAW MILL #1	OPPORTUNITY #4	MIDAS #2
	SAW MILL #2	OPPORTUNITY #5	
	SAW MILL #3		

GEOLOGY: The veins traversing the claims of the Linden Group, which is the subject of this report, were formed by the fissuring of the pre-Cambrian rocks which enclose them. These fissures vary from ten to twenty feet in width and are filled with a highly silicified quartz carrying gold and silver minerals in paying quantities.

Sulphides of iron and lead and copper sulphide (Chalcopyrite) appear in the surface ores in somewhat limited quantities.

However, there seems no doubt but that the heavier sulphides will be found in larger quantities at a depth of from 60 to 80 feet below the surface as is indicated and practically proven by the fact that these minerals have been reached at from 400 to 600 feet higher than the apex of the Linden veins.

No evidence of extensive leaching is apparent although some of the "float" quartz shows limonite in varying degrees.

Practically no faulting nor cross-fissuring is noticeable, but the veins are uniform in size, dip and strike to a remarkable degree.

Some ~~intrusions~~ of schist are found as well as an altered diorite, the schist occurring as intrusions within the fissures themselves and being highly mineralized from contact with the quartz.

VEINS, ORES and VALUES: There are, approximately, four parallel veins traversing the property from north to south and one vein, the Vera, striking northwest-southeast. The parallel veins occur on the Opportunity Group, the Midas, Blackhawk and the Water Vein. The croppings of the various veins are very prominent and, in some instances, traceable for a distance of several thousand feet. The Vera Vein is especially impressive in that the quartz masses outcrop to a height of from 10 to 15 feet above the surrounding area and show an average width of about thirty feet.

This surface quartz is of a highly mineralized character and should develop into a very profitable ore at a comparatively shallow depth. The minerals of the near surface zone are contained in the oxides of iron where the quartz has been altered and especially in hematite.

The ore for the most part is a white, grayish quartz carrying free gold in the oxidized zone and gold and silver value associated with sulphides of iron, lead, and copper in zones below from sixty to eighty feet. Copper carbonates are found on some portions of the property but the predominating value in all the veins of the property is gold and the property is essentially a gold property.

The values of the mineral content of these ores are variable as may be easily understood, owing to the wide area of mineralization. From a preliminary sampling of several of the veins it has been determined that gold values vary from \$3.00 to \$300.00 per ton, which is a remarkable average in proportion to the width of mineralization.

The writer's sampling has proven this to be, approximately, correct and higher grade samples taken on other points on the property indicate an average grade of \$20.00 ore for milling purposes.

DEVELOPMENT: The "Cottonwood Vein" is developed by a 200-foot tunnel and three shafts, the deepest being 60 feet. This development is all

on the vein and there has been a production of considerable ore from these workings, stated to have plated, by amalgamation, \$16.80 per ton in free gold.

ADMIRAL VEIN is developed by a 350-foot tunnel driven on a copper bearing vein. A winze sixty feet deep has been sunk below the tunnel level and a 100-foot raise above the level, all work being on the vein.

The TURNER VEIN has a 70-foot cross-cut and a drift of 200 feet showing a body of quartz which will develop into a profitable operation.

The GOLDEN CHIEF VEIN is developed by a 65-foot shaft on a six-foot vein containing a shipping grade of ore. This vein is one of the highest grade veins of the property.

VERA VEIN is the only one not paralleling the general vein system of the area comprised in this property. This vein strikes north 75 degrees west with a dip of, approximately, 55 degrees and can be traced the entire length of the Vera, Maud, and Mabel claims and beyond, an approximate total distance of over 5,700 feet.

The outcroppings of quartz on this vein are the most prominent of any of the veins mentioned as to size and continuity.

Lying about 160 feet north of the Vera Vein is another parallel fissure, somewhat smaller than the Vera, but showing surface ore assaying \$7.00 per ton in gold. Value of ores from the Vera Vein carry from \$3.00 to \$300.00 per ton but a general average value may be placed at from \$14.00 to \$21.00 per ton in gold. Very little silver is apparent, but deeper ores will carry higher silver values, some lead and possibly some copper, but will, also, retain their gold content and, probably, of higher value.

Development of the Vera Vein consists of numerous surface open cuts, a 100-foot cross-cut tunnel and several shallow shafts, all showing quartz with values. The Vera Vein has a double compartment shaft following the vein on the foot wall to a depth of 60 feet. The shaft in a double compartment, 7 x 10 feet and is well timbered up to the bottom. This shaft is all in ore; see assay sheet in back of report for further

reference. Forty tons of ore from the Vera Vein have been milled in a near-by mill, average \$38.00 per ton. Their ores were selected ores.

The OPPORTUNITY GROUP is, practically undeveloped, the deepest working being a 45-foot shaft on a vein containing low-grade gold ore. The other veins parallel the one above mentioned. The MIDAS VEIN lies west of the balance of the group and is not contiguous to it. The vein crosses the full length of the Midas No. 1 and Midas No. 2 claims, which are situated at a much higher elevation than other claims of the property, and therefore, offers an exceptional opportunity for development by tunnel exploration. The vein dips at 45 degrees; is about six feet between walls and carries a good grade of mill ore. It is impossible to make any accurate estimate of tonnage, available or potential, at this time, but it is safe to assume that from all indications the property will produce hundreds of thousands of tons when properly equipped and developed, and will justify at the present time the erection and operation of, at least, the first fifty ton unit of a milling plant.

FUEL AND POWER: The power line of the Arizona Power Company passes within about one and one-half miles of the property and is the most economical source of power supply for any purpose for which power is required for mining and milling operations.

A flat rate of 1-1/2¢ per KWH is made by this Company and at this rate, electrical power is much less expensive than either steam or Diesel engine equipment. Practically no equipment is now on the property and must be obtained and installed before any operation of importance can be conducted.

MINERALOGY AND METALLURGY: The minerals contained in the ores of the Linden Veins comprise gold, silver, lead, copper and iron pyrites. The gold values predominate and all other minerals may be considered as a by-product. There the ore is oxidized, as is the case with some surface ores. The gold is free in the hematite, but is also disseminated throughout the quartz mass.

The fact that the greater percentage of the values occur as

free gold or are associated with the sulphides render the ore an ideal ore for flotation, free gold being one of the easiest metals to float if it is not too coarse.

A recovery of from 93% to 95% should be made following the installation of the proper equipment. There are no refractory elements in the Linden ores and bulk flotation can be practiced with a high percentage of recovery. The flow sheet for treatment of these ores should be practically as follows:

DUMP ORE OVER GRIZZLY FINES TO CRUSHED ORE BIN;
 OVERSIZE TO PRELIMINARY JAW CRUSHER;
 TO STORAGE BIN FOR CRUSHED ORE;
 TO SELF FEEDER;
 TO ROLLS;
 TO SIX FOOT BALL MILL;
 TO DOAN CLASSIFIER;
 OVER SIZE RETURN TO BALL MILL IN CLOSED CIRCUIT;
 OVERFLOW TO TWO ROUGHER FLOTATION MACHINES;
 THENCE TO CLEAN-UP FLOTATION MACHINE, THE REJECT
 GOING TO WILFLEY CLEAN-UP TABLE OR SLIME TABLE
 AND CONCENTRATES TO OLIVER FILTER.

TYPE OF FLOTATION MACHINE AND PROPER RE-AGENTS
 TO BE DETERMINED LATER.

BUT Callow Cells are recommended by the writer.

The above refers to a plant of 50 tons daily capacity to be equipped with crushing and power capacity for increasing to one hundred tons with very little increase in cost. The ratio of concentration on this ore is estimated at about 16 to 1.

DEVELOPMENT AND EQUIPMENT COSTS: A rough estimate of development and equipments costs is as follows:

Sinking 300 feet at \$20.00 per foot	\$6,000.00
Drifting 600 feet at \$5.00 per foot	3,000.00
	<u>\$9,000.00</u>

MINE EQUIPMENT:

Electric Hoist	\$2,000.00
Electric Driven Compressor	2,500.00
Miscellaneous Equipment	1,500.00
	<u>\$6,000.00</u>

MILL EQUIPMENT:

Camp Buildings and Equipment	\$6,000.00
Miscellaneous Expenses (as safety factor) ..	3,000.00
	<u>\$9,000.00</u>

Grand Total\$24,000.00

Of course, the mill can be installed and put into operation before the mine development as outlined above is completed.

MINING AND MILLING COSTS: On the basis of a one hundred ton daily production, the costs of production and marketing will be approximately, \$2.00 per ton of ore. This estimate is based on the output from stoping carried to a width of not less than five feet, the work to be conducted under the shrinkage system and with ore reserves maintained from two to three years ahead of production.

ESTIMATED PROFITS: Under the above conditions we may then expect the following results:

Production of one hundred tons per day of	
a gross value \$19.00 per ton	\$1900.00 per day
Less production and marketing costs	200.00
<u>Net earning per day</u>	<u>\$1700.00</u>

It will be seen that increasing this to 200 tons or even 500 tons per day, which can eventually be accomplished, will proportionately increase the net earnings and this is the scale which this property should be brought to.

RECOMMENDATIONS: The writer recommends the immediate installation of the mine, mill and camp equipment as specified above and prosecution of mine development as rapidly as possible. With the immense tonnage available and potential there is no question as to the ultimate success of the undertaking provided, however, that the development of future ore reserves show the same values as those now proven and to be maintained in the new ore reserves and we have no reason to question this point.

And, provided also that the operations are conducted under economical and competent management and along the same business methods as any banking or manufacturing enterprise would be conducted. More failures in mining are due to either under-financing or incompetent or extravagant management than to any fault of the property itself and the LINDEN MINES from all present indications can be developed into a most successful and profitable producer if the project is properly handled from financing to production.

Respectfully submitted,

(Signed) E. H. Crabtree, E.M.

JOHN H. BANKS
ANALYTICAL AND RESEARCH LABORATORIES
26 John Street, New York

(COPY)

CERTIFICATE OF ASSAY

No. 1

No.

August 1st, 1932

In the sample ofORE.....

Marked As Below.....

Submitted--for assay we find:

Mark

#1	.....	0.32 oz.	.....	@ \$35.00	....	\$13.30
#2	.....	1.12 oz.	.....	@ 35.00	....	39.20
#3	.....	0.52 oz.	.....	@ 35.00	....	18.20
#4	.....	0.14 oz.	.....	@ 35.00	....	4.90
#5	.....	0.68 oz.	.....	@ 35.00	....	23.80
#6	.....	0.10 oz.	.....	@ 35.00	....	3.50

To: Mr. R. H. Ismon
175 Fifth Ave.
New York, N. Y.

(Signed) John H. Banks.

JOHN H. BANKS
ANALYTICAL AND RESEARCH LABORATORIES
26 John Street, New York

(COPY)

CERTIFICATE OF ASSAY

No. 2

No. 55616

April 5th, 1932

In the sample ofORE.....

Marked As Below.....

Submitted--for assay we find

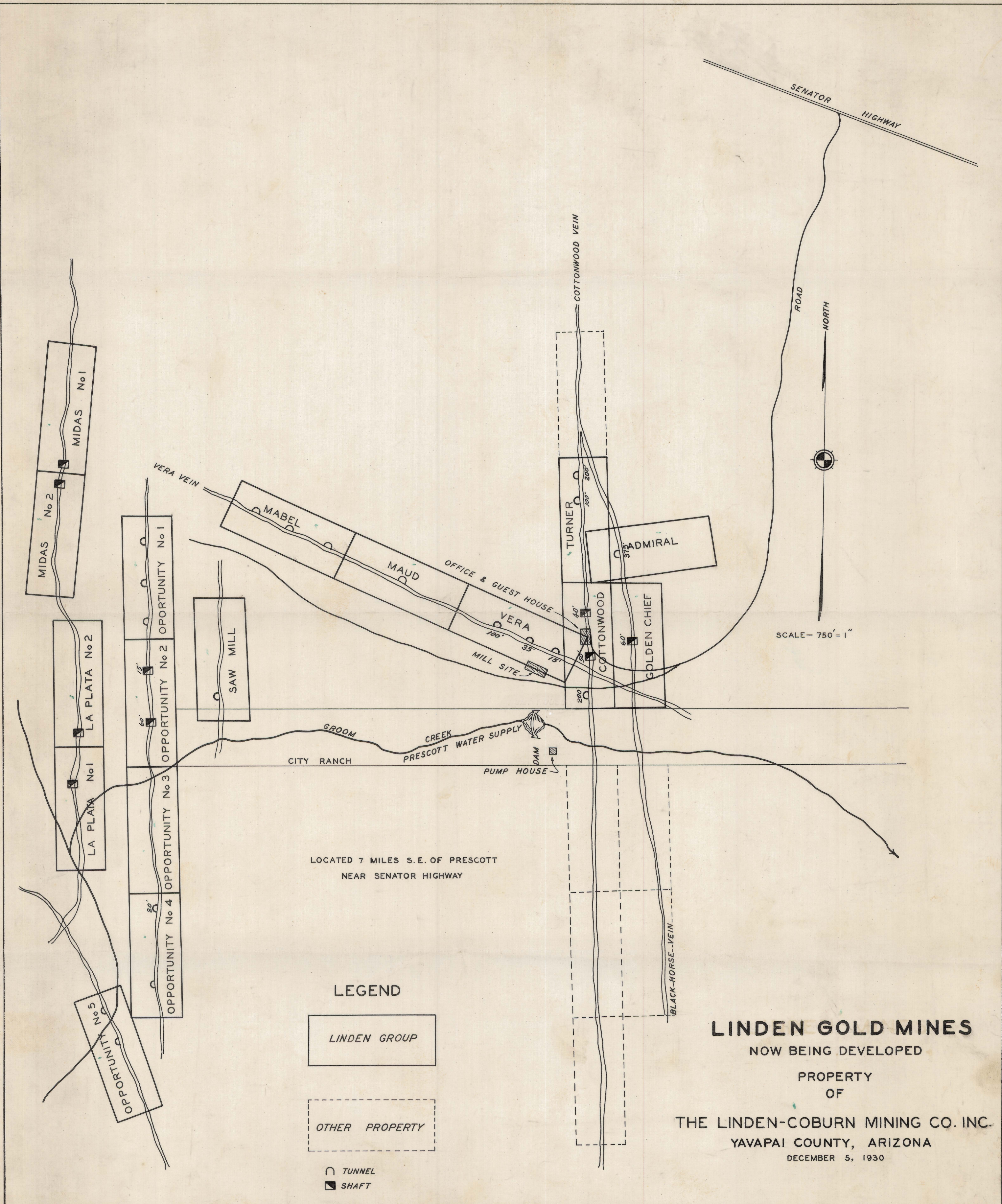
Mark

Gold
per 2000 lbs.

Shaft--at surface--Oxidized	.....	0.06 oz.	...	@ \$35.00	..	\$2.10
Shaft--Depth 25 ft. and 55 ft. Oxidized	.....	0.04 oz.	...	@ 35.00	..	1.40
Shaft--Depth 55 ft.--Sulphide ore	...	2.28 oz.	...	@ 35.00	..	79.80
Concentrates--about 800 lbs. from shaft 9-1/2 tons ore from shaft	...	3.85 oz.	...	@ 35.00	..	134.75

To: Mr. R. H. Ismon
175 Fifth Ave.
New York, N. Y.

(Signed) John H. Banks.



LINDEN GOLD MINES
NOW BEING DEVELOPED
PROPERTY
OF
THE LINDEN-COBURN MINING CO. INC.
YAVAPAI COUNTY, ARIZONA
DECEMBER 5, 1930

LEGEND

LINDEN GROUP

OTHER PROPERTY

TUNNEL

SHAFT