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LYNX CREEK PLACER MINE.

Site 2500 am
Lynx Creek Placer Mine is located in Yavapai County, Arizona, about twelve miles by road east of the town of Prescott.

The property consists of seventeen quarter section claims of one hundred and sixty acres each and four twenty acre claims. Twelve hundred and eighty acres are patented the remaining claims are held under location and possessory title under the mining laws. There are no adverse claimants.

Besides the mining claims listed above the Mine owns permanent, as well as mining, water rights, embracing practically the entire flow of Lynx Creek.

Improvements on the property consist of two impounding dams, one of concrete, the other of earth (the earth reservoir still leaks practically all its contents, but will undoubtedly seal up in time), some three miles of ditches, a diversion dam in Lynx Creek of concrete, turnouts, gates, siphon, etc., etc.

There is a good camp with Supt. building, dwellings, bunk houses, cook house, black-smith shop, store and warehouse, etc., etc. Also a very pretentious manager's residence. A deep well provides water for domestic use.

In addition to the above the following used and usable equipment is on the property:

- 1- 2,000 Cubic Yard Dredge, equipped and operating.
- 2- Combinations Drag-lines- 2-1/2 Cu.Yd.Capacities. Some 18,000 feet of pipe lines of different dias.
- 3- Trucks,
- 1- Substation and transformer station fed by four miles 22,00 volt transmission line, with feeder lines to dredge and buildings. The job, including the dredge is electrified.
- 2- Steel tanks of 16, 000 gal capacity, one oil one water. Several smaller tanks, also the usual stock of appurtenances and repairs. Title to all of the above is in H. A. Savage.

Lynx Creek was one of the earlier placers worked in Arizona and history records that at one time several thousand men were working these gravels in the main channel. Its production is not known as no record was kept, but in later years it is known to have produced sveral millions of dollars.

The present dredging operations have been carried on for the past four years and approximately one and one half million yards of gravels have been processed. There have been some periods of interrupted service due, to wash-outs, dry weather and consequent water shortage, and conversion of dredge from gas to electric service, but in the main it has kept going fairly steadily.

Until about one year ago the dredge was equipped with sluice boxes thereafter Bendolari jigs were installed. Some of the gold in the creek bottom is associated with flour quick and is very fine. But the bulk of the gold recovered is of good particle size and not difficult of recovery.

There still remains more than a million yards of gravel in the bed of the channel of the creek on this property. Undoubtedly the gold continues on down the creek to its intersection with the Agua Fria River and on down that river, yet no sampling of any extent has ever been conducted to prove or disprove this.

It is also doubtful that the dredging operation has recovered more than a part of the gold content of the gravel channel as digging operations never reached a depth of more than fifteen feet, and where deeper excavation was made it usually produced more gold. It is believed that the false bed rock upon which they have rested operations has a lower one with possibly more gold than that recovered. It has never been sampled with this in mind.

There yet remain several ^{not} millions of yards of gravels in the channel of Lynx Creek, on this property, even tho sampling does not reveal the presence of a lower enrichment. However the worth of this property is in the bench gravels which surround the property and those also owned by the Mine.

Some work has been done on these benches, which rise in three successive lifts above the present channel, and gold in pay quantities has been found in each of the benches. Some of this work has blocked out several hundreds of thousands of cubic yards of pay gravel that will average over thirty cents per cubic yard.

The Lynx Creek deposits are the result of the wearing down of the high Bradshaw mountains and the gold was deposited through the medium of Lynx Creek on a great alluvial fan containing several hundreds of millions of cubic yards of detrital gold bearing gravels. Proper sampling of these gravels may disclose substantial yardages of pay gravels of dredging character, which might aggregate as much as one hundred million cubic yards.

Such sampling as has been done on these benches tend to bear out this assertion.

3/3/39

James B. Binaud
Consulting Engineer.

LYNX CREEK PLACER

3/28/39

Conference with James Girand Sr. who has spent much time investigating the work of Savage and some of the ground which Savage has not mined.

Girand says that Savage started mining in April '34 and since that, although often closed down by lack of water or for repairs to plant, he has washed altogether about 1,500,000 cubic yards and sold to the mint \$450,000 worth of gold = to 30¢ per yard. The losses in his plant have often been very heavy so that the gravel washed probably carried an average of 40¢ per yard. At present time Savage is handling about 2000 yds. per day.

Much of the mining has only been done down to the caliche and very little to bed rock where best values should be found although the digging might be difficult because of heavy boulders.

Girand thinks that the total area of pay gravel including the upper benches which were formed by the old channels of Lynx Creek might extend from just below the fence line down to the Fain Ranch at its junction with the Agua Fria, a distance of some 3 miles and over a width of nearly two miles which would represent 6 sq. miles = 3840 acres and if the average depth of the gravel is 10 yds. this area might contain nearly 200 million cubic yards (5000 yds. per acre, one yard deep).

See Jerome map in Bradshaw Folio.

He thinks that at least 100,000,000 yards of this gravel should average 20% recoverable value per yard.

All of this land is privately owned or belongs to the Santa Fe Railway and the State of Arizona. It could be bought or leased and a thorough sampling might be made with cesspool-diggers which put down a 3' hole.

Savage has all of the water rights and owns ^{or holds} much of the land, about ²⁸⁰⁰ ~~3000~~ acres (2) and he would lease or sell for part cash and part royalty, he has much equipment including dredge, power line, pipe lines, dams and reservoirs and he has placed value of his improvements at about \$100,000 and asked \$150,000 for property and equipment but is now feeling pretty blue and might take a much lower figure.

Savage claims that this working costs have been only 10¢ per yd. which I do not believe but think that a large plant handling 10,000 yards per day (where he only handles 2000 yards) could surely be operated for this figure. It might pay to have 2 plants each with 5000 yds. capacity.

The water required according to Girand would be 30% of the volume of gravel say 660,000 gals. per day or 500 gals per minute which might be gotten from the flow of Lynx Creek and Agua Fria and Savage's concrete dam should be raised to provide for much greater storage in Lynx Creek. *(Lynx)*

If 100,000,000 yds. of 20¢ gravel could be washed @ 10¢ per yd. the profit would be \$10,000,000 over about 30 years or \$330,000 per annum and from this the initial investment of say \$1,000,000 would have to be returned.

First procedure would be to collect all available data and Girand will furnish a short report to cover the high spots and then to decide if outlook justifies necessary expenditure to take option on Savage holdings and other desirable land and to drill a large area at total cost of about \$100,000 meantime the Savage plant could be operated and should yield some substantial profits.

Reber of U.V. has sampled much of the surface and got good values but these are due to surface concentrations.

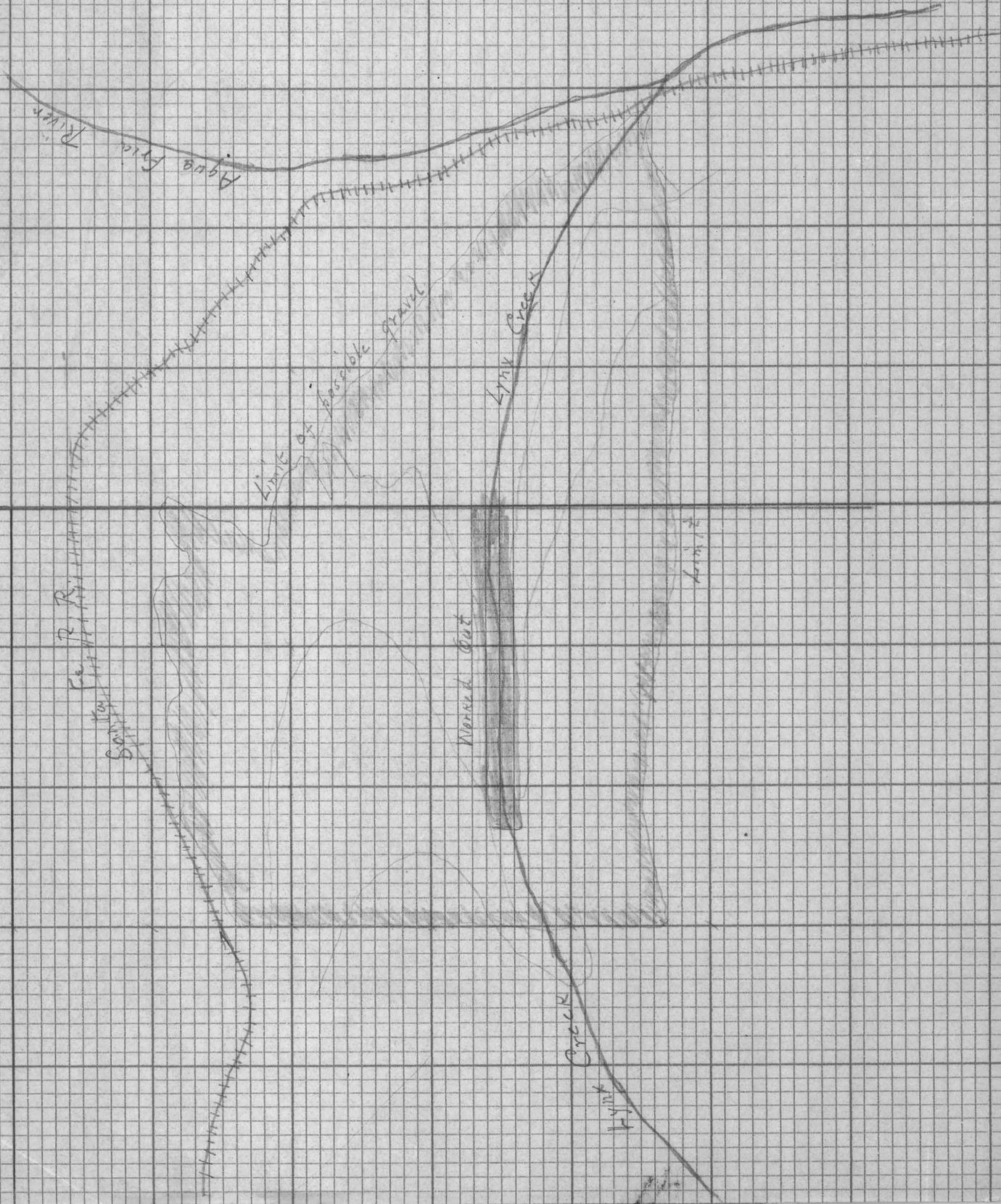
Girand has done a lot of sampling on the benches north and east of Lynx Creek to depth of 10' to 17' with satisfactory results.

Savage has sampled certain sections near bed rock and obtained value of 80¢ to \$1.20 per yard.

But no systematic sampling has yet been done and the value of the old benches away from the Creek bottom is as yet largely an unknown quantity.

From personal visit to these workings I was impressed with the large area of possible gravel but could form no conclusions as to yardage and average grade.

G.M. Colvocoresses



Agua Fria River

S. R. R.
Southern Railway

Line of possible gravel

Washed Out

Sink Creek

Sink Creek

Highway

JAMES B. GIRAND

CONSULTING ENGINEER
405 ELLIS BUILDING
PHOENIX, ARIZONA

April 3, 1939.

C. G. Johnson

Mr. G. M. Colvocoresses,
Consulting Engineer,
Luhrs Tower,
Phoenix, Arizona.

My Dear Colvocoresses:

Herewith is a brief statement of the Lynx Creek Placer Mine, together with a map showing its location and probable pay gravel area.

As you know I have voluminous data on this property and have the mint returns received before the past twelve months which show in excess of \$400,000.

Their claim of the gravel averaging about thirty cents can be taken as being conservative. I did not state this in the statement as this information is more or less of a confidential nature.

It would seem to me that the information contained herein should be sufficient to interest parties engaged in this type of work.

Cordially,

JBG/m.

James B. Girand

*Girand is now going out to the Maricopa
mine near Cow Creek for a few days.*

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James E. Maude
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