G P X

PRELIMINARY REPORT ON MCNAMARA LEAD MINE PALMETTO DISTRICT, ESMERALDA COUNTY, Nev. November 6 1948 by Harry H. Hughes

Location and Accessibility

SW14 Sec. 6, T. 55, R. 40 E.

The McRimara property is located in the Palmetto Mining District at the south end of the Silver Feek range of mountains, on the morth slope of Palmetto mountain. It is do out IS miles south of Silver Peak Esmeralin County Nevada. Coldfield, the county seat lies about twenty five miles in an air line to the northeast. Hieration of the lower tunnel is about 7200 feet.

The property is reached from Silver Peak over a fair desert road to with in ome mile of the mine. The road for this last mile is steep and rough. Silver Peak is the end of the ciled section of state highway So 47, which connects with U.S. highway 6 and 95 at Blair junction, 20 miles distance. Blair junction is 35 miles from Mine, the nearest railroad point.

Year around operation at the property is feasible, altho provisision would have to be made to clear show from the last mile of road, since at times during the winter months it falls to a depth of two or three feet. However IS inches of show fell at the mine on October 50, 1948 and this writer had no difficulty in reaching it in a join car.

### Property

The property consists of three claims, all bald on possessory title; The Oslene, Oslene MeI and Galena mill sight, Since the Calena is the only claim covering the strike of the mineralised some this writer has located several claims along the strike of the some, which can be traced on the surface for over a mile. Here claims should be located for protection.

The Galena milisite claim covers a apring which makes enough water for all demostic and milling purposes. The Galena Ho I covers the ground between the millsite and the Galena claims, on which is a two inch pipeline about 1200 feet long, from the spring to the mine.

Topography is rugged and rises rather abruptly to the Palmette peak which is some ISOO feet higher than the workings. The ground is moderatly covered with nut pine (pinion) and sarub codar.

#### History

According to Francis Church Lincoln in his "mining Districts and MineralResources of Nevada" published in 1923 (pp 79-80), the McNamara was located in 1880. It was worked intermittently by less sea for fourty years and Lincoln say "The McNamara made a considerable production of lead allver ere in the early days." One oldtimer told this writer that he remembers McNamara ere was freighted in wagons to Sedavill, the rail head in those a days. Undoubtly it was shiped from there to Selby smelter at San Francisco. No records of any production what ever are available.

The property has been idle since twenties untill this summer of 1947 when the writer acquired it under lease and option. Stee cleaning out of the property was done and a small shipment of selected ore was made. This assayed 49.0% lead and 8.4 Ozs of silver per tempend returned a net from the smelter of \$118.04 per ton. Another small shipment of selected ore was made recently

180

and assayed 48.4% lead and IO.2 owness of silver per ton. this returned a net of\$138.00 per ton, since the lead was paid for at I9.5¢ per pound.

## Goology

The deposit is situated about half way up the north slope of Palmette mountainin Paleoneic sediments which consists mostely of thin bedded, impure limittonic. The core of the mountain is a granite stock, the contact being 700 to 1000 feet above the McNamara mineralised some. At the mine the limestone is unaltered except for some silicification; but a fiew hundred feet above the limestone has considerably garnatized.

The ore deposit is of the replacement type formed along a fault fissure with an altered acidic dike ( alaskite or aplite) for the hanging wall. The ore some strikes # 60°% on the surface and dips steeply to the #E.It can be traced for more than a mile. The outerop is a redish brown quarts and jasperoid, below which, and not so noticeable, is a some of barite. The barite being softer than the quarts, has eroded faster and is hiden by talis. Some of the lead mineralisation is associated with the barite.

The barite is later than the lead mineralisation and is probably the latest of all of the deposition, Galena is the most common lead mineral to be found in the deposit, althousement as present, Crystals of wilfenite, the lead melybeate, have been noted as crusts on Galena, and where there is more quarts in the vein occasional stains of exidised copper are found.

Bethe in the under ground stone and in the glory hale a very rough banding of the cre is noted across a width of form 15 to 30 feet, on the hanging rall, under the assis dite, is a foot or more of limenite with bunches of Galena or cerussite, then several feet of barite which is usually very rich is Galena; then several feet of what appears to be an almost completely illicified limestone, highly crushed and carying considerable diagonizated galena and some copper stain. On the footwall is six inches or a foot or more of a greenish fault drag or breezia with an occasional bunches of galena or cerussite as a part of the drag material.

It is suggested that the structal controls of the load mineralization is the junction of the E 60°W fault fissure with a series of E 80°W fractures.

In sufficient work has been done to prove any theory, however and another possibility exists. It could also be that the one ore body which has been mined is a failted segment of a pipe. It will be noted in the transverse section that the ore body that has been mined underground be entirely disconcided from the glory hele. Near the surface they are separated by ten or more feet of addle which is more basic than the aedic one, haveing the appearance of a louded indeposite, a short distance below the upper tumpelies the stope, this dike feathers out in a wedge, and the writer in picking in the feetwall of the stope found the fault drag mentioned above. Two three feet belos were drilled in the feetwall and when blasted opened very good ore (20-25%) lead.

Another fact which supports the theory that the ore bedy is a pipe is that for at least 195 feet southeast of the gloryholo; on the surface, good showings of lead are found accross a width of 150 feets.

If the one ore body that has been opened is a pipe, it is not intended to infer that it is the only one along the mineralized some because the writer has found barite and lead some 8000 feet southeast of the workings, we work has been done on this showing.

# Sampleing ...

There are a number of chowings of ere in the mine and the gloryhole and on the surface that will assay from 10 to 50% leads but this writer feels that out samples are very and to be mislanding and almost impossible to take accurately. To get a fair picture the ore should be broke and shiped in fifty and one hundred lots. This is the only way that highgrade ore and loan material can be averaged.

From explerance in mineing the ere seme sampleing of it, and samples of the dumps ( which are rejects from sorting in former sperations) there is notout that the ere in the virgin ere bedy would have averaged between 15 and 20% lead. The writer is prosecutly mineing on a pillar in the old steps which has remaining in it between 500 and a 1000 ten of ere which will average no less than 20% lead (and probably 20%) across a width of 10 to 12 feet.

# Tonage Possibilities

Additional prespecting and development work is required before any estimate of tenage possibilities can be made with any degree of accuracy. If the known ore body should be found to be a pipe with the agra indicated by surface showings this one are body a alone would contain about 2000 tons per vertical foot of depth of a low gradewgrade ore which could only be mined on a relative ely large scale.

However there are several thousand tons of shiping or highgrade milling ore indicated in the workings presently opened, and in the writers opinion every likely head that a relatively small amount of work will increase this amount.

It may be noted here that the Rollamara was thought to be a vilver mine by it's lanatore, and it is possible that some of the surface bres caried high values in silver; but the lead is relatively low in silver averageing less than 10 Oss in silver per tone in the writers opinion this can be the only reason why the property has been no more extensively developed. With such low silver value even a 50% lead are would not have been highgrade in an isolated district when worked in a small way.

Development appropent

The deposit has been opened by three erosecut tunnels in a verteical range of 105 feet, The lower has a longth (erosecut) of 230 feet to reach the vein; the middle has a longth of 100 feet and the upper a longth of 20 feet, Above the upper tunnel is a small gloryhole extending 40 feet to the surface.

There is also two releas conceting the lower and middle tunnels one of which is filled with waist which has been washed in from a cloudburst, the other was cleaned out this last summer and in the writer's opinion, in the hanging well of the dip of the file of the dip of the which is also a rules from the middle tunnel to the upper one which is pluged with surface washe

There is a winz from the lower crossout tunnel at the ere some, It is said to be a 198 feet deep, but one wall has slufed so the bettem could not be reached,

Along the strike of the mineralized some the lower tunnel has been driven a length of 800 feet, but in the writer's opinion the work has been done to far in the heaging wall to cut the none of the lead, It will be noted that just inside of the middle tunnel is rather wide fault sone, under which is some 30 feet of crushed quarks and barite with some copper stain, Then quarks and limestome and the dise, under which is the lead some. The South east drift on the lower tunnel apparently has been driven in the outer some of the quarts and barite, under the fault, and it is believed that the lower tunnel should have been continued farther

in to the foot wallto pick up the load. This is particularly true if the writer 's idea of intersecting fractures centroling the lead deposit is correct.

No drifting or crosscuting has been done in the ore some on either the middle or upper turnels except in the one ere shoot which has been mined. To the southeast in the upper tunnels small amount of work has been done which has opened a body of barite carrying considerable galence

On the surface above the upper tunnel, several small open suts have been made which barite galena and quarts.

The stope which has been wined has a length of about 50 feet, an average width of about 12 feet and was mined from the durface to the middle tunnel, a slope distance of 90 feet, in addition to this and, as noted, disconnected from it to the gloryhelembleh is roughly 80by 50 by 80 feet thick, At the elevation of the middle tunnel, to the northwest, the stope is cut off by a fault or intrusion of the basic dike, to the southeast, however, the small stope opened at the upper tunnelis bound the large stope; and the wide extent of surface mineralisation is in the footwall of all workings at any level.

In the lower tunnel the writer has found the same fault darg mentioned proviously, and under it very good ore. This is in the angling footwall crossout HW of the chutejand the ore was nodoubt everlooked by former operators because the crossout was driven along a solution channel which coated the wall with more or lost calcito, calinho and some ground

## b.Proposed

The quickent way to determine the extent and possible value of the mineralization would be with a diamond-crilling program. Three or four thousand feet of holes would be plenty to prove definately the presence or absence of more constrain are bodies. Neste of the drilling could be done from the surfaceand depth of mot ever 500 feet would be sufficient. Before laying out a d detailed drilling program a geophysical survey (usaing the induction method) would be of advantage, the use of it being used in laying out the holes.

At the time the drilling compaign would be under way the pluged Paises should be elected out and and crossout's driven in to the footwall on the lower and middle tunnels.

With favorable results from the drillingund/or crossouts the additional development work nessary to open positive are would be done to determine the size mill required.

The type of orw schtained in the deposit is such that the millioning would be very simple. The lead frees at a relatively cearse meshpand since there is no sine in the ore a splendid recovery would be made with strait flotation (probably 90% at least) in fact for a small operation a very satisfactory concentration sould be made by orushing the are with rolls and then jigging the orushed ore.

P

### COMPLETE REPORT

of Proliminary Examination of McHamara Galona Mine Esmoralda County, Hevada, Made May IC and II, 1919

Mark G.Bradshaw E.E. Goldfield and Tonapah Hovada.

The Galene groupe of load mineing claims, commonly known as the MeMamara mine, is situated about eight miles westernly from the town of Lida, sixteen miles south from the town of Silver Peak and thirty three miles by wagon road from the town of Goldfield all in Ezmeralda County, Nevada.

Goldfield is the mearest railroad point, all mining supplies for this section comeing from that point and all ores or mill product shiped would go through Goldfield.

The read conceting the Galena mine with Coldfield is a very fair desert mountain read and may be traveled by wages and auto truck with companative case.

The groupe constate of sixteen claims held by location, possessory right. On the claims are two series of cold springs which flow, without development, slightly over 90.000 gallone per day. The amount of ground kept wet by these springs, and which would be wet evan though the springs were forced to give more water, is ample to raise garden truck sufficient to supply a small mining community.

The elevation of the groupe is 6,200 feet. The road can be kept open practically all year.

There is an abundance of mut pine of ample size for all mining purposes, which eliminates the high cost of purchaseing and hauling mining timber in, this being a very important item to be considered.

The presence of water on the ground in sufficient quantity for mill purposes, which if settled and re used in the milling operation, would permit the erection of at least a 100 ten per day capacity. The presence of sufficient timber on the ground for all mining purposes, linked with the open climate which permits mining to be presecuted all year—these are conditions in favor of a mine in any country a combination of conditions rarely encountered in any mining section.

## HISTORY

The McMamara mine was located in 1880 by Matt McMamara and held by him for a great many years. In 1805 it was optioned to Lynch- a Greave, who draws a tunnel to the vein, 250 feet from the adit of tunnel, The option was not exercised by optioners, as they were looking for of a shiping value, which condition did then not exist.

The ere deposit held by these locations is on a granitic (alaskite) contact. This contact has a northwesternly strike and is traceable on the surface for ever a half mile. The lime is of the blue cherty variety. The contact is very distinct and quite strongly mineralised along its surface exposure; the strongest mineralisation being at the point where it is now opened up. At this point there are three crosscut tunnels and a sheft. It is well known that a granitic-lime contact is the natural home of lead silver ore bodies. Deposits have been found of tremendious size under this same geologic condition.

The Lucky-bey mines, about 70 miles morth, are found identically with this bedy. Their production has placed them with the forement with Hevada's silver-lead mines.

#### DEVELOPMENT AND ITS RESULTS

The ore deposit is opened by three creasest tunnels and a shaft. The lower tunnel is \$30 feet from edit to vein, next tunnel 120 feet to vein, the upper tunnel was naturally the first run and is practically inaccessable. All data is readily procuped from lower two tunnels and surface. The shaft is in bad shape so no examination was made of the vein in shaft.

For conventence will call the upper tunnel Box. The intermediate tunnel No. 8; who the lower tunnel No. 8.

As before stated, the main results are obtained from the surface out crop and tunnel No.I are the unmistakeable evidence of the existence of an ore body in the centect at this point, A suple taken of dump No.I tunnel, representing about \$,000 tone, assayed 6,6 on silver II.10 \$ load, or \$ I9.10 per tone

Tunnel No.3- This tunnel is about IIO feet long before encountering the are deposit from which are has been extracted. The length of the are shoot at this places being ever eight foot, a cample taken from the Galena left in south end of this stope IN foot ever length of tunnel, went as following (width of streek taken two feet) Gald, trace; aliver NO. Seet length to streek taken two feet) Gald, trace; aliver NO. Seet length to at value \$ 57.40 per ten.
While the writer has no direct knowledge of value of ore shiped from this stope, his information is that 80 tons of ore were shiped to smolter which returned, grees, \$ 70.00 per ten, the shipments average IN outcome allver per ten.

A wins is sunk on the ore from this tunnel level showing continuity of ere body, on this level the tunnel is continued well in to the granite,

Tunnel No.8. Longth of tunnel to ore body,880 feet. At this point the contact is drifted on for 50 feet, but because of muck left in drift from stopeling operations it is impossible to reach northernment face at this time.

A stope has been started from drift on this level, reaching at its back about 15 feet above tunnel level. A sample taken in this stope gave the following results ( width taken, two feet) allver 80. I cunces lead 17.3%; total value \$ 57.40 It might be well to note here
thet sample from this point gives identical value with that taken
in Here tunnel though clightly different paraentages in silver end
lead.

The width of the contest at this point of intersection with the turnel is ten foot, Three samples were taken here , with results as following; three foot on footwall, Gold trace; eliver 2,49 ounses; lead ,705 value \$ 5,15 Three foot, hanging wall, Gold trace, dilver 4,40 oss lead ,185 value \$ 4,65

A sample taken on dump, at tunnel adit of ere that would plaked from main bulk of ere which would be milled, gave cilver IS, I caled 57.8 % total value \$ 73.80. Which corresponds estatements of value of ere shiped, also tending to show values which may be encountered with depth as work is presecuted.

#### ANDVANET AND CONCLUSION

The Calena groups of load mining claims possess real merit a properly spened,

financed so as to fulfill requirements exected in developing a mine, should return investors good profit on their investment,

The mine as opened up at present proves the existance of an openeous, the size of which, in a lime-granitic contact, will enlarge in depth if other mines under the same conditions may be used as precedent. For example, the Lucky Boy mine had no body of ere untill the depth of 350 feet was attained ( vertical depth of Galena tunnel Ho.5, to enterop above 170 feet). From the 350 feet to the 550feet level the Lucky Boy produced over a million dellars ( silver at 55 cents). This is used as a comparison as it is the closest lead silver mine to Gleans but same may be learned of all lead-silver mines in granite lime.

The amount of work on the Calena is comparatively small; further drifting may at any round of holes spen up a new body of ore or the extension of the present body.

In sunclusion will state that the groupe of claims should be opened up below the No.5 tunnel to a reasonable depth and drifts run alsonage contact to prove extent of ore bedies, as is known in mining, this character of deposit, the width and length of shoots semetimes reach seems size, it is reasonable to believe, all surface conditions considered, together with values obtained, that there is a large body of lead-sliver bro in the Calena which has been morked to date, above this main ore body.