CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
1520 West Adams St.
Phoenix, AZ 85007
602-771-1601
http://www.azgs.az.gov
inquiries@azgs.az.gov

The following file is part of the

Arizona Department of Mines and Mineral Resources Mining Collection

ACCESS STATEMENT

These digitized collections are accessible for purposes of education and research. We have indicated what we know about copyright and rights of privacy, publicity, or trademark. Due to the nature of archival collections, we are not always able to identify this information. We are eager to hear from any rights owners, so that we may obtain accurate information. Upon request, we will remove material from public view while we address a rights issue.

CONSTRAINTS STATEMENT

The Arizona Geological Survey does not claim to control all rights for all materials in its collection. These rights include, but are not limited to: copyright, privacy rights, and cultural protection rights. The User hereby assumes all responsibility for obtaining any rights to use the material in excess of "fair use."

The Survey makes no intellectual property claims to the products created by individual authors in the manuscript collections, except when the author deeded those rights to the Survey or when those authors were employed by the State of Arizona and created intellectual products as a function of their official duties. The Survey does maintain property rights to the physical and digital representations of the works.

QUALITY STATEMENT

The Arizona Geological Survey is not responsible for the accuracy of the records, information, or opinions that may be contained in the files. The Survey collects, catalogs, and archives data on mineral properties regardless of its views of the veracity or accuracy of those data.

Bisbee, Arizona

December 30, 1949

Mr. Thomas Bardon

Portland Mine

You wrote me about the Portland mine near Kingman, Arizona. I contacted a Mr. Payne, whom I know, and who had worked at the Producers' Mill not far from the Portland. He gave a very good report on the property; so I called Mr. R. P. Jones to whom you referred in your letters. I arranged for a visit to the property and was accompanied by Mr. Jones and Mr. Phil Morse. Mr. Jones is very talkative and somewhat on the high-pressure type. However, I found the property to be as they described it. All maps and records were in California and they promised to get these for our inspection.

I believe this mine has some excellent possibilities if properly equipped and mined on a basis of not less than 1,000 tons per day. Milling should be done at the mine.

Mr. Jones has two other properties in the same range of mountains which he declares are equal to, or better, than the Portland owned by Mr. Potter. They are stock companies and will relinquish 60% of the stock for finance money sufficient to place the mine in operation and build a cyanide mill. All these properties are reported to have large tonnages with grades of ore equal to those of the Portland.

Perhaps I have been oversold by the things I saw, but I believe the property warrants further examination. I suggest that Mr. Newell and Mr. Hamilton look the property over and that Mr. Hamilton investigate the metallurgical results obtained on the 132,000 tons milled at the Producers' Mill and at the Catherine Mill.

Herewith you will find my report on the Portland Mine.

J. A. Wilcox

J. A. Wilcox,
Manager

JAW/e
Encls.

R/H

Portland Mine, Mohave County.

Humboldt, Arizona.
Jan. 18, 1950.

Mr. Bardon, Pres.,
Shattuck Denn Mining Corp.,
New York.

Tom Newell and I, with Mr. Ray Jones, visited this property on January 13th. The general features of this mine, its past production and grade of ore have been reported on by Joe Wilcox and Jack Hamilton and will not be repeated in this letter. Enclosed is a rough map which I made from Brunton and pacing notes, and several photographs. Accurate maps were not available.

The vein consists of a sheet of metamorphosed silicified rhyolite containing abundant quartz and quartz-calcite. As observed in the south pit and in the underground workings, the vein has a smooth well defined hanging wall which shows iron stains. About 20 feet below this hanging wall, and roughly parallel to it is a basic dike, probably intruded into the structure during a reopening in the vein. Below the dike the footwall material is silicified and brecciated andesite. The metamorphism fades further from the dike, but is pronounced for as much as 40 feet. Below this the andesite is but little altered.

The adit shown at the south end of the map was the haulage level. It is caved at the face, and its course between the cave and the point at which we were able to enter it from the north face of the stope is in doubt. Apparently the portal was in the hanging wall part of the vein, it crossed into the footwall and then turned easterly across the dike. From the north face of the stope the adit trends westerly and again gets below the dike. Just north of this dike is a crosscut 50' long which ends in normal andesite. About 80 feet north of this crosscut a connection has been made to the adit run south from the north pit. This north drift is 10 feet higher in elevation, and the map gives a false impression of an offset in the dike because of the difference in elevation.

The mining in the north pit was from below the dike, which at the south end of the pit is about 30 feet higher than the pit floor. The ore removed from the underground stope was the ten feet immediatly below the hanging wall, and in no place in the stope was the dike visible, indicating that the full thickness of the upper part of the vein was not mined. The stoped areas extend several hundred feet down the dip below the adit level. Part of this stope collapsed because of inadequate pillars, making it apparently impossible to haul ore out the south adit. It is probable that about 80,000 tons came from this stope. Subsequent ore came from shovel operation in the south pit.

The silicified footwall andesite is exposed in the southwest corner of the south pit, and is well shown on the second print which also shows the dike immediatly above.

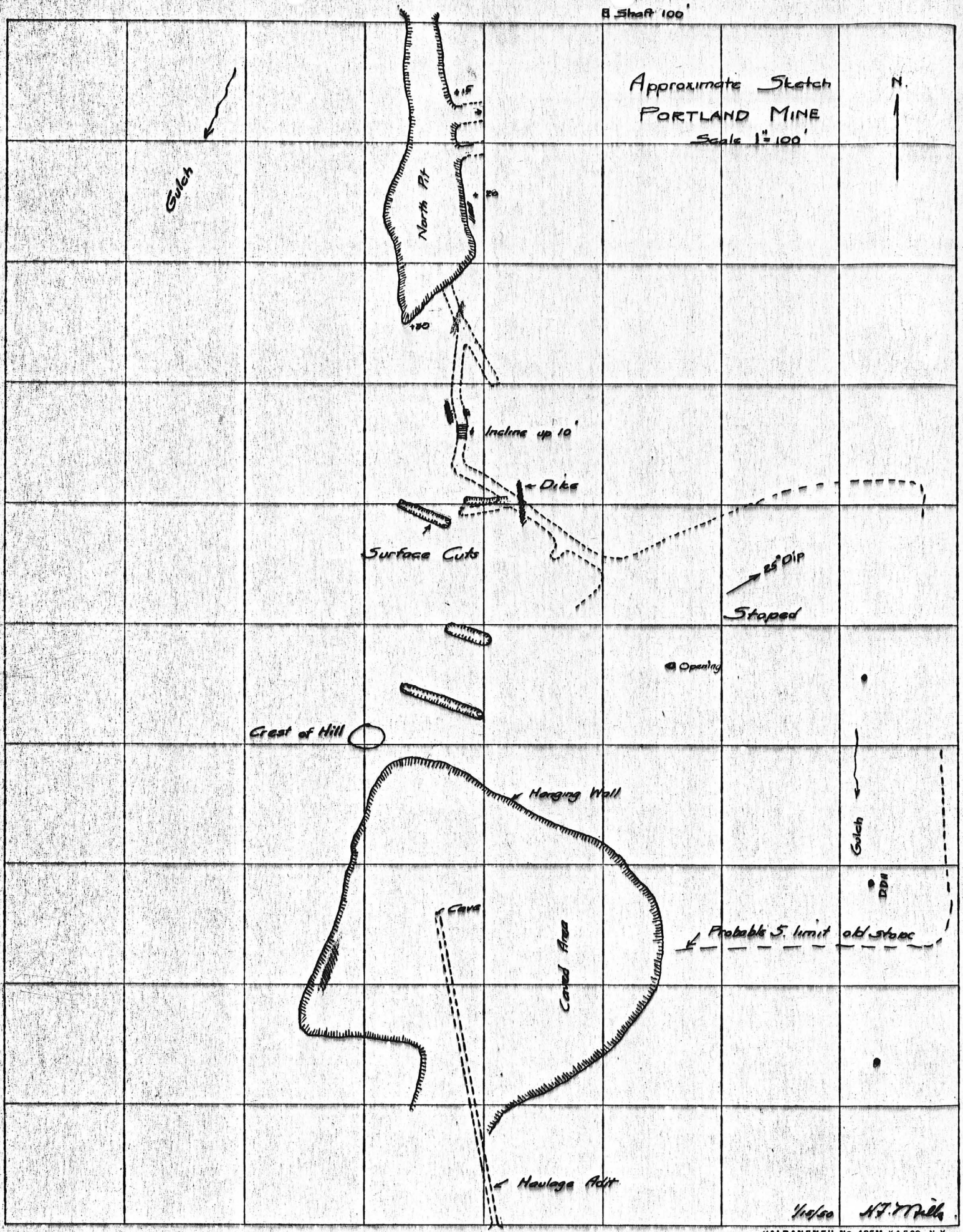
Without an accurate map it is difficult to approximate tonnage available for shovel mining. The highest point of the hill is about 90 feet above the adit level. Assuming that ten feet is avarage moning thickness, there may be 120,000 tons north of the stope and eastward to a point at which waste stripping becomes excessive. It is possible that with low costs of shovel mining that 20 or even 30 feet of thickness could be extracted. However, with an absence of sampling this is pure speculation. Three drill holes have been put down from a gulch just east of the hill and are said to have penetrated the dike at about 150'. If the assay results on these holes can be obtained, and if the gold content and thickness are favorable the property has some possibilities of underground mining, as there is a possibility of a considerable tonnage if values extend about 1000 feet down the dip below the stope and over the 1000 feet along the strike covered by this map.

It seems reasonable that operating margins on the grade of ore previously extracted would be very low after costs of underground mining, fine-grind milling and either amortization of plant and water and power installation or truck haul and milling costs at the producers mill with its limited capacity. I believe that the remaining tonnage available for shovel mining is too limited to justify the expense of a limited operation.

Mr. Jones advised us that he had notified Kennecott, Howe Sound and the Gould interests that the property was available for sale on the basis of $50,000 cash with $5,000 down to secure refusal of the property for 90 days with the additional $45,000 put into escrow with the deed. This is a shotgun or first come first served proposition. The Portland is certainly not without merit, and an extensive program of drilling might indicate available tonnages sufficient to justify a large enough milling operation for a profitable operation.

H.F.Mills.

Jan. 18, 1950.



Denn Mill

January 9, 1950

Mr. S.S. Shattuck

Portland Mine

I arrived in Kingman January 2nd and contacted Mr. Jones who gave me some additional information regarding the Portland Mine. We made an appoint ment to go out to the mine Tuesday January 3rd.

Portland Mine:

On january 3rd we drove out to the Portland, went through the mine and covered the surface. I was very impressed with what I saw and, having only a limited experience with mines, can only say that I agree with Mr. Wilcox in his statement concerning the potentiality of the mine.

Producer Mill:

We then visited the Producer Cyanide Plant where in 1941 ore from 80 different mines were treated on a custom basis. This plant has a 250 ton capacity, having been built in 1937. It is in excellent condition and is complete. I was told that the plant was available for $100,000.00 with a tentative cost of $50,000.00 to move and set it up at the Portland Mine.

Later I had a long talk with Mr. Bob Payne who was, for two years, superintendent of the Producer Mill. He said that on all the ores treated a recovery of from 95-98% recovery was made paying for 92%, thus averaging about 0.48¢ a ton additional profit over the milling charge. Mr. Payne also said that although he did not mill any ore from the Portland Mine he did run tests attaining a recovery of 98% by grinding to 80% minus 200 mesh which is some finer than required by most of the other ores.

Goldroad Mill:

The Goldroad cyanide plant which was also built in 1937 was then examin ed. It has a capacity of 400 tons and although the crushing plant and half of the grinding circuit is gone, the rest of the plant is in excellent con- dition. The price of this plant is $50,000.00 including all mine equipment which is considerable.

While at the Goldroad Plant which is near Oatman we were in the vacin- ity of the Victoria and Lexington properties owned by a company of which Mr. Jones is President. We went over the properties of which the only value gained was to accentuate the tremenduous possabilities of the country as a gold producer.

Records of Portland ore treated:

I was very fortunate in Mr. Jones obtaining, through a bookeeping firm, the yearly report for the fiscal year ending on October 31, 1938 of the Gold Standard Mines Corporation. This was the company at whose Katherine Mill the Portland ore was treated.

In this report it was stated that from 1934 to October 31, 1938 a total tonnage of 315,807 tons was treated from nine different mines of which 118, 870 tons were from the Portland

Denn Mill

January 9, 1950

Mr. S.S. Shattuck — Portland Mine.

The cost of reducing the ore to bullion and marketing same was $1.27 per ton of which a breakdown follows at the end of this report.

A breakdown of each ore milled was made giving the actual gross recovered value for the Portland as $7.99 per ton. At no place in the report could be found a gross value of an ore or a percentage of recovery, but by calculating from gross values reported for royalty purposes for the Portland, an average gross value of $8.34 was established with a mill recovery of 95.80%.

The Gold Standard Mines Corporation either owned or leased most of the properties from which ore w as received. The Portland was leased and follow ing is a report of the operation.

Portland ore milled in 1938, 27,925 tons.		
Gross recovered value per ton		$7.99
Marketing and Milling	1.27	
Mining Royalties and Hauling	4.47	
Camp, board and Administration	.55	
Operating profit		1.70
Depreciation etc	.59	
Net Profit		1.11

The milling cost was based on an average daily tonnage of 174 tons.

With the property owned, a mill on the property and a minimum of 600 tons per day produced the following figures should be considered. Although labor a nd other costs are up, power costs are the same and reagent costs are very little higher. Therefore, the milling cost plus pumping water from the river should not exceed $1.50 per ton. Royalties amounted to 0.83¢ per ton and trucking about $1.70 per ton. Therefore, on a high tonnage basis mining should come well within $2.00 per ton. With the town of Bullhead within driving distance of the mine, Housing and boarding house would be eliminated.

Summary:

From the available information the following facts were established;

The total tons mined and treated was just over 132,000 tons, with an average gross value of $7.97 per ton based on the royalty reports. The recovery based on actual figures available on 27,925 tons was 95.803% on an average gross value of $8.34 per ton.

Denn Mill

January 9, 1950

Mr. S.S. Shattuck

Portland Mine

Page "3"

It seems from the available information, making allowances for increased costs and based on a production of 600 tons or better per day that a milling cost of $1.50, including pumping water from the river, and a mininb cost not to exceed $2.00 per ton can be made. Other costs should not exceed 50¢ per ton making a total cost of $4.00 per ton. (I mention a production of 600 tons per day because that would be a minimum tonnage that could be treated in the Producer and Goldroad Cyanide Plants if they were moved to the mine).

I understand that the Portland can be bought for $50,000.00 and Mr. Jones tells me that a 90 day examination period would be allowed.

Milling cost of the Katherine Cyanid Plant for the fiscal year of 1938 on 63,562 tons.

	Cost per ton
Salaries and wages	0.3187
Compensation Ins.	.0153
Unemployment tax	.0090
Old Age Benefit Tax	.0030
Total Emp. Cost	0.3460
Treatment Materials	0.1667
Grinding Balls	.1012
Ball Mill Liners	.0366
Gas, Oil and grease	.0100
Other supplies	.0179
Repairs and Replacements	0.0301
Total material & Sup.	0.3625
Sampling	0.0384
Warehousing	.0121
Total Service other Dept.	0.0505

THE PORTLAND MINE

KINGMAN, ARIZONA

The Portland Mine in the San Francisco Mining District of Arizona was visited on December 18th. I was accompanied by Mr. R. P. Jones, and Mr. Phil Morse, both of Kingman, Arizona.

LOCATION

The Portland Mine is located in Mohave County, Arizona, 46 miles Northeast of Kingman by road. Twenty-five miles is on Highway 93 to Hoover Dam and 19 miles over a graded county road that is high gear nearly all the way. The Mine site is 4 miles from the Colorado River and will be on the Lake-side of the Lake formed by Davis Dam when completed next year. The mine is at an elevation of 1,400 feet and will be 800 feet above Davis Dam Lake. There is a power line 12 miles distant. Davis Dam and the town of Bull Head, Nevada, will be 12 miles distant.

CLIMATE

The climate is very arid and practically free of snow in the winter. The summers are hot with a minimum of rainfall. Roads are seldom closed by storms.

GEOLOGY

The range of mountains in which the mine is located parallels the Colorado River and is called the River Range. Several big mines are in this range; the Gold Roads, United Eastern, and Gold Standard. The range was built by volcanism in the Tertiory age and is composed of Rhyolites and Andesite intrusions with later Malapois Coverings. Ore occurances are predominately in Metamorphosed Calcite beds which have become highly silicified. Gold and silver are the only metals to be found and they occur in almost microscopic particles dissemmated through quartz.

GEOLOGY (Continued)

The metal bearing structure consists of two parallel veins, one about 20 feet thick and the other about 100 feet thick. The separating horse of waste is from 5 to 10 feet wide. The veins dip to the east at 27° and outcrops across a ridge for 2500 feet. A third vein of 5 foot thickness runs at right angles to the other across the south of the property and it dips to the North at about 40°. The ore is very siciliclous and dense and has a greenish cast.

PRESENT DEVELOPMENT

The mine was developed by a hundred foot shaft which is inaccessable. A tunnel on the surface level runs through the ridge for 900 feet. From this area a considerable tonnage was mined by room and pillar methods. All the ore was mined from the upper or 20 foot vein. No ore was mined from the thicker vein. Part of the tonnage mined was from the surface with shovels and trucks. It is reported that 132,000 tons were extracted and trucked, to the Catherine and Producers Mills, both some 17 miles distant.

Many samples from the thicker veins are reported to indicate equal values with those obtained in mining the thinner vein. The average recovered value reported to me on the 132,000 tons was $7.94 per ton. Closure of the mine was forced by the embargoes placed on gold mines in 1942. Mining was done by antiquated methods and on much too small a scale for the grade of the ore and in view of the large tonnage available. There is no equipment of value on the property.

The owners report 500,000 tons of ore available above the present truck loading deck, and another 500,000 tons down to 100 feet below ground. These figures seem to be fair estimates provided exploration work verified the reported values in the thicker vein.

NEEDED EXPLORATION

Verification of reported tonnage and grade would require about ten drill holes approximately 200 feet deep, and some test runs on ore from outcrops and old faces. The records of past shipments would be valuable information for comparative

purposes. Shattuck Denn owns all the equipment necessary for drilling and drifting.

MINING METHODS

The first 500,000 tons can be mined with shovels and trucks. Drilling would be by churn drill and it appears secondary blasting will be required. Very little stripping will be required to this depth. During the mining of the surface ore a shaft could be sunk to a depth determined by drilling, and the deeper part of the ore body mined by Room and Pillar methods. I believe mining should be carried on at the rate of 1,000 tons or more, per day.

MILLING

It seems that milling at the mine site is essential. This would require the erection of a 1,000 ton cyanide mill. Water would have to be pumped 4 miles against an 800 foot head from the Colorado River. Power is available 12 miles away. Perhaps the mills at Gold Roads and Producers could be bought and moved. The ore must be finely ground (80%-200 mesh) for good recoveries. The Producers' Mill is reported to have made better than a 95% recovery.

TERMS

The terms are those quoted in your letter of December 2nd. Mr. Jones assured me that titles are clear and there are no liens involved. He stated a period of exploration without cost could be arranged.

ESTIMATED MINING & MILLING COSTS

Mining	150
Milling	175
Marketing	25
Exploration & Development	100
	450
Reported Values	794
Net Earnings	344

CONCLUSION

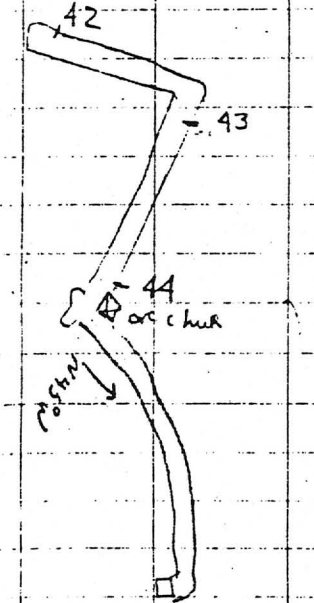
I feel that this property merits further examination and a more thorough study of mining and milling procedures and costs be made.

J. A. Wilcox

- - - - -

From Bottom of 92' stairs

1" = 40'



Port. 44 → 5' high, just S. of one chute - chip - 70% cc - 20% host 10% qtz - Vn. Breccia - in shaft of N. Pit.

PORT-45: 6' high chip smpl of ~~agglomerate~~ poorly consolidated, slightly calichified fanglomerate. contains some fragments of qtz vein rock - up to 60% locally. Fine & poorly sorted or unsorted matrix of qtz vein fragments, clays, qtz, volcanic fragments.

PORT-51: 6.5' high chip smpl of calcite + qtz + silicified & latite fragments. Green qtz most abundant at top of vein (25%) - mostly white cc at bottom. Cc locally as large rosettes looking down pit, get avg. attitude N14E, 29SE.

Basalt dike 1-2' thick cuts vein - in places concordantly - in places discordantly

-52: 4' high chip smpl. of coarse cc + green qtz (~30-40%) - green qtz is later than cc & may have recrystallized it into the rosettes. Below 51 - ~~partly~~ ~~a~~ This sample not 4' thick.

-53: 10' high chip smpl aa 52 - following down dip slope - only a couple feet ~~dip~~ thickness ~~to~~ (not sure how much)

Now go to incline on "LITTLE OREBODY"

About 30' down, next to smpl HIAL take PORT-54 - 4.0' thick banded & partly vuggy green qtz + cc on top & red ~~fm~~ (limonitic) qtz on bottom.

-55: 4.2' thick green qtz + cc at HW - red-brown qtz + cc at FW. N80W, 47NE - no banding lots of bx textures, some bx fragments of silicics - taken where small drift intersects incline

From SHAFT, go ~250' N85W to diggings on vein. - here's PORT-59: 2.5' THICK (FW NOT seen) of white cc + pods of green qtz E-W, 46N (30-50% green qtz) - ~~End~~

Find outcrop of ~~sm~~ thin (~~<~~.5') zone of silicification ~30' W of here, but can't find any mineral W of here. Either pinches out, or is faulted off at the N15W trending valley here. I think it pinches out.

MCF80-100 dump sample from Democrat Mine in Hualapai. Can't find outcrop of any decent vein - little stringers of qtz-py vlts in deeply altered diorite adjacent. Lots of x-cutting white c.g. granite ± pegmatite dikes. Dumps are primarily qtz-py vein - quite gossany

10/31/80

COOL, PARTLY CLDY

TODAY'S OBJ:

SAMPLE PORTLAND MINE w/ DON

IN N. PIT:

PORT-30: 1.5' THICK OF DEEPLY FE ± CLAY-ALT VOLC ANDESITE (?) — HAS .1 MM TO .5 MM STRINGERS OF WHITE CC ON HW OF VEIN. N12W, 21 NE.

vertical chip

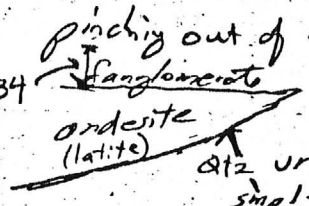
-31: DIRECTLY BELOW 30. 5.0' THICK N18W, 18NE MIXED CLAY - LIM - GOETHITE - W/ VARIABLE QTZ CONTENT (SOME ZONES MOSTLY LIM - CLAY, SOME MOSTLY QTZ - RPLACED VOLC). PERHAPS 60-70% QTZ OVERALL.

-32 - DON COLLECTS

-33: 3.1' VERTICAL CHIP COMP. 70-80% GREEN PORCELAIN LIKE Y-W

FRI- Oct. 31 PORTLAND - Pete & I

Au	Ag	
.009	<.05	Port 30 → 1.5' deeply fxd- clay alt. andesite - .5. 1mm stringers white cc. on h.w. of vein - N12°W - 21°E
.032	.2	Port → 31 → 5.0' thick - mixed lim.-t clay + qtz., locally ing c.c. - soft id clay to hard → ≈70% Qtz. N18°W; 18° N.E.
.142	.8	Port 32 → S. end of N. Pit 10' from top wall - un. with. - ≈ N-S; 34° E dip (note - just below latite H.W. near pinching out of h.w. which is overlain by qtz. bearing fanglomerate.



Smpl = 6.7' thick - 90+%
qtz. = 5% host + poss. 5% c.c.
some hem stain - does not go to f.w.
(15-20# smpl)

.196	2.8	Port 33 → 3.1' wtd. chip - 70-80% gry Qtz - white to pink clay, smpl doesn't go to f.w. - AH. N27W, 27 NE
.144	.80	Port-34 → S. end of N. Pit - seeable - sketch - into underlying fangl. for 3½' thick (true x-sect.) - very representative due to soft nature of unit - ≈ 30-40% Qtz - rest is clays + caliche matrix. AH of fangl here N10°W - 10°E (rough cont w/ latite ~~~ general dip). (10-15# smpl)
.020	.6	Port 35 - S end of N. Pit - 20' below 32 - here 90% qtz - silic material + host - smpl - 4' wide (overlain by 1½' thick latite which is overlain

abundant white + pinkish clays. No lim or goethite. Doesn't go to FW of vein since it is covered by talus. D27W, 27NE

[Vein is concordant w/ ~~d~~ volcanics

PORT-36: IN SMALL STOPE AT TOP OF WORKINGS FROM N. PIT ~~de~~ INCLINE - NEXT TO SMPL H4 Massive white cc, locally v. c. grained; has bx fragments of silicified volcanic wallrocks. 6.2' high + looks to go deeper since we're not out of vein at bottom. V. minor qtz. <5%

-40: 5.5' high at W end of drift (x-cut sort of) Clay + cc alt wallrock + massive white + brown cc as irregular pods + vlts.

It slicked flt surface at end of x-cut here is N75E, 52SE w/ normal movement

-41: 5.7' high chip - note vein goes another 2' higher when viewed from corner - bottom of vein not seen. Massive pink + white qtz + cc - top half is >75% qtz - bottom of sample mostly cc - up to 100% cc

Port42 - in E drift below Shaft of N. Pit near H-18 (4' from face) 5½' smpl. of vein bx = 10-15% host rock (latite) + the rest brn-grn-wh. c.c. - locally vein contains much more bx frags of host (to 60%) Att. not obtainable. (Cut by several thin c.c. stringers - random orientation to 1" thick)

PORT 43: W. E of #42 + right next to H16 (a v. carefully channelled smpl) - all white - pink + grey cc w/ unsupported large bx fragments of wallrocks 5.5' high

MCF80-100 dump sample from Democrat Mine in Hualapai. Can't find outcrop of any decent vein - little stringers of qtz-py vlts in deeply wthd biotite adamellite. Lots of x-cutting white c.g. granite & pegmatite dikes. Dumps are primarily qtz-py vein - quite gossany

10/31/80
Cool, Partly Clay

TODAY'S OBJ.:
SAMPLE PORTLAND MINE w/ DON

IN N. PIT:

PORT-30: 1.5' THICK OF DEEPLY FE & CLAY-ALT ~~vole~~ ANDESITE (?) - has .1 mm to .5 mm stringers of white CC ON HW of vein.. N12W, 21 NE.
vertical chip

-31: directly below 30. 5.0' THICK N18W, 18NE mixed clay - lim - goethite - w/ variable qtz content. (Some zones mostly lim - clay, some mostly qtz - replaced ~~vole~~ vol'c). Perhaps 60-70% qtz overall.
vertical chip

-32 - Don collects

-33: 3.1' vertical chip sampl. 70-80% green porcelain like yi- w.

Tucs. →

Portland XX - NW side → gneiss, NE- flow(and?) & congl. (?)

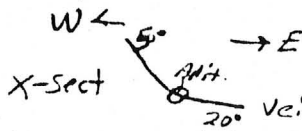
Port 3 → 3' channel chip → highly hem alt. tuff. agglomerate(?) - volc. frags - attitude here - dip 25° E - strike N-S, lower 2" of rmpl.: hem. gouge - above h.w. of vein

Port 4 → 8' thickness, ⊥ to vein (h.w. of vein) - weak mn. stain qtz - mnr. cc., 10% lt. wallrock (inclusions in vein) - 90% qtz - cc. (vein)

Port. 5 → PM-12 drill chips - 15% qtz. pebbles - 85% lt. wall rock & powder.

Port 6 → dump on N end of property - 90% qtz (grn.wk.) - ↑cc., rest is host.

Note:- local geol → very complex structure, Vein (=25-30' thick) is very flat & further to W. steepens slightly to maybe 50°



- Adit & incline commonly follow baked contact between h.w. of qtz. vein & overlying tuff. agg. (?) w/ gouge in middle

#1 Adit.

Port 7 → 7' ⊥ to vn. - h.w. to flow d.fr (f.w. not exp.). broad ← feox stn. - fg. grn. to wk. qtz. - mnr. cc. 10% wallrock

Port 8 → 6' ⊥ to vn., - h.w. to s.ll, slight(wk) Fe ox. stain Lithos 3'. - 20% c.c., 75% qt. (fg. - wh. to grn) 5% wallrock. 15' dd #77 (Asarco).

Portland (cont.)

#2 Adit – B = N25°E approx- 81 paces (220')
25' in → X-cutt. struck AH. = N40°E, 33-45° S.E.
219 → 5' [illegible] 20-30% [illegible]
[illegible] rock - [illegible] , [illegible]

Port 10 → 57' of chips along E. wall of drift. - vn. material (qtz-c.c.)
Was stope above this drift.

Port.11 → dump below (S.) #2 adit - 50-60% wh-grn. qtz., 20-30% wh.-blk. c.c., rest host
Note: #2 smpl - from dump above + N. of #2 adit. large glory hole there

S. Incline (decline) ≈ 1,000' S. of #2 Adit
↘ dip. 47°N. - vn. dip. - note change from before (easterly dip)

Port 12 → dump from incline 80% qtz, pred. grn.

Port 13 → 3-400' W. of incline, vn. 2-3' wide, 60% grn. qtz. c.c., host. smpl - 2' wide. - W. of Rd., AH ≈ 50-60° dip to NE.

All adits, inclines, etc. follow contact of h.w. of qtz. vein + overlying, usually aglomeritic unit - commonly hem. stained.

Port 15 – 50' E of incline, in workings - hand fun to 3' below here vn. - 70% silic. host (volc.), 20%-30% grn. qtz. - + mnr. cc.. extremely tuff rock. - overlying H.W. is aggl. tuff (?) - includes grn qtz. frags.
Dip 35° to (N15°E). - near H. 4

Port-14 → 3' qtz. - 30% wallrock - near H9 + H9A.

Port-16 → alt. Rk. [illegible] N- qtz. H 6 smpl.

-Leon Berger
-Norm Adams-

Portland Mine 10/27/80

Port #17 - at backey workings
6' Qv 60% 20% CaCO3
20% and wall rx. Qtz vn
and bx Near Scokorog spl?
prob 2-30' below surface.
FW not reached

Port #18
6' hi spl 90% CaCO3
vn 5% wall rx 5% Qtz.
Near FW. Total thkness.
+12' FW not reached

Port #19
6 1/2' Qtz CaCO3 vn. start
w/in 1ft of HW. stgly
Sheared grn & brn Qtz 80%
20% CaCO3. FW not reached

Port #26
5% and 85% Qtz 10%
CaCO3 - Most Qtz grn - rest
gry or white spl. 4' in
HW vn. w/in 6" of HW
at spl 1572

Port #27
6' high e spl 1522
massive Qtz & CaCO3 loc
sanded. S wall of
old workings Total vn
atleast 15'

Port #28
Dmp spl mod. select
of grn Qtz. From S. pit.
prob 6-8000 Ton dmp

Port #23 - Dmp spl. from
Tunnel spl #22, 75%
Qtz & Cal. 25% and. Inside
Mine

Port #24 - 7' bx Qtz vn
& CaCO3. 90% 10% and.
Qtz & CaCO3. both lt grn to
Tan. spl at H-286 #1471

Port #25 - 4' HW qv w/
Qtz & CaCO3 bx w/ 10% wall
rx frags & lt green to honey
yellow Qtz. e spl 1499.
spl. in this area continue
1-2' into barren HW
and. Face of drift is
not exposed.

Port #20 - bx and & Qtz vn
bx Tectonic tex. over 58"
at same local as H-38, 38A.
Adj limit of workings

Port #21 HW bx w/
20% green Qtz - 70%
slc and + 10% CaCO3
6' TK spl. at H-35, 35A
local.

Port #22 HW Qt. CaCO3
vn + and bx w/ white Qtz
& CaCO3. Immediately below
HW and. No green Qtz. If
spl. runs. v. sig. & indicates
good tonnage potential of blank?
6' TK

Portland Mine
12/2/80
N. Pit shaft
Port # 61 at end of drift spl 4' ⊥ to vn struct poss vn HW near SCO contact: vn below contact SCO vn bx? spl 90% $CaCO_3$ 10% wall rx frags no qtz seen, near spl #-15 but H-18 in [illegible]
Two $CaCO_3$, No qtz in vn @ this local

Port # 62
Spl @ H-16 90% $CaCO_3$ vn 10% wall rx pcgn band.

poss ~ few of vn. spl H-13 & Port # 130 gave vi different values.

~~Port #~~ 63 Duplicate H-13' w/ ~~[illegible]~~ 30' 0.11 o/T Au. Spl across 8' - 40% $CaCO_3$ vn no qtz - 60% wall rx

Port # 64 ~ across 22' spl 70% pcgn & 30% vn. $CaCO_3$. No qtz. rx actually c [illegible] bx

Port # 65 pete Song spl

Port # 65A in raise ~ 4' HW vn? exposed along N-S 60W flt. spl 90% $CaCO_3$ 10% grn qtz

25
236
90
21,240

Port # 66 80,000
HW vn upper 14' above haul tunnel. shows distinct HW w/ and to flt, one to bx qu, $CaCO_3$ vn below. Tr FeOx qtz > $CaCO_3$. wall rx <10%. Lower 10' not sampled.

~~Port # 67. Next 10' below [illegible] into flt of~~
vn, massive qtz & $CaCO_3$
Port # 67 a series of 5' hi vert spl along HW portion of vein spl along 40' length

Port # 68 Same as above but along next 30'. If spls run the ore continues N. from stopes!

Port # 69
H6. Dup spl banded green qtz from Sm [illegible] shaft.

2/9/81
Port 70
spl bx and brly on ex of little vn. If runs v. interesting up to 20' Th

Port 71 on strike 200' N. of 70 as above

March 17, 1944

MEMORANDUM

PORTLAND GOLD MINE
MOHAVE COUNTY

TO: W. C. Broadgate

FROM: J. S. Coupal

I am enclosing a report by Holt on the Portland gold mine together with a memorandum which he has forwarded regarding it.

This is one of the few sizeable gold properties in the state and I believe it is worthy of calling to the attention of the people you mentioned.

JSC:LP
Enc.

August 31, 1944

Mr. Fred W. Koehler
Room 521 Guaranty Bldg.
Hollywood Blvd.
Hollywood, California

Dear Sir:

At the request of Mr. Elgin B. Holt, field engineer, we are enclosing copy of his report on the Portland Mine.

Yours very truly,

Secretary

lp
Enc.

August 30, 1944

To: Lorraine Porter

From: Elgin B. Holt

Subject: Report on Portland mine

Kindly mail a copy of my report on the PORYLAND MINE to:

Mr. Fred W. Koehler,
Room 521 Guaranty Bldg.,
Hollywood Blvd.,
Hollywood, Calif.

Thanks.

Elgin B Holt

Elgin B. Holt

STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine PORTLAND Date March 3, 1944

District Minnesota-Weaver, Mohave Co. Engineer Elgin B. Holt

Subject: Gold Mine Survey

R E P O R T

OWNER: J. A. Potter, Kingman, Arizona.

AGENT: E. A. McVicar, Kingman, Arizona.

METALS: Gold with small amount of silver.

AREA: LOCATION: This property, consisting of 3 patented and 5 unpatented claims, is situated in Mohave County, Arizona, 50 miles northwest of Kingman and six miles east of the Colorado River. From Kingman, the property is reached by following U. S. Highway 93 north 28 miles to Pleasant Valley Junction; thence west along the Searchlight road for 10 miles; thence southwesterly about 12 miles to the mine.

HISTORICAL:

Property was discovered about 1920. From 1935 to 1940 it was worked under a lease and option arrangement by the Gold Standard Mines Corporation. During this period approximately 132,000 tons of ore were milled averaging $7.22 gold per ton, according to settlement sheets now on file in McVicar's office in Kingman. The said ore was treated in the Katherine cyanidation plant located 11 miles southeasterly from property, or about 16 miles over a very poor sandy road, over which the ore was hauled by trucks. The property was abandoned during 1940 by Gold Standard due mainly to the fact about that time this company secured control and started operating the Tyro mine, a much larger property and located only 7 miles from the Katherine mill.

Per F. C. Schrader, 1909, "The country rock", of that general area, "consists of the Tertiary volcanic rocks, with rhyolite and green chlorite andesite most abundant."

ORE RESERVES:

During April, 1937, after the Gold Standard company had started work on the Portland mine, Mr. Clyde M. Becker, a very able geologist, reported on that property as follows:

"I estimated that approximately 700 feet of development work on these three ore bodies had proven 287,000 tons of ore of an average value of $6.64 (gold) per ton."

Referring to the cross-vein on the Portland claim, Becker stated: "On the little ore body an inclined shaft had been sunk 100 feet with ore of grade similar in type and values to the south tunnel ore body. A series of assays taken at 95 feet ran 0.18 to 0.44 ounces gold. All carry silver in the approximate ration of 5 to 1 by weight. No other mineral (metallics) is present."

MAIN VEIN:

The main vein, which strikes north to south, is a wide flat vein dipping about 35 degrees easterly. The deepest work on mine is about 100 feet vertically, reaching the permanent water level. The main vein mentioned is exposed on surface for around 1200 feet; but it is believed to extend 500 feet further to the south through a basin where the vein is covered by debris. This vein is wide, averaging 12 feet in thickness, but "bellies" out in places to 20 feet or more in width. The vein gangue is composed of quartz and calcite, with no deleterious metals present. Hence the ore is ideal for treatment by cyanidation, by which process around 97% of gold values should be recovered.

MINE WORKINGS:

The main workings of property consist of the following openings: 1. A 100-foot shaft sunk on the cross-vein, exposing the "Little Ore Body" mentioned by Becker. 2. The South Tunnel which develops the "South Tunnel Ore Body"; and 3. The North Tunnel, which develops the "North Tunnel Ore Body". Also at the bottom of the 100-foot shaft on the cross-vein a drift 100 feet in length has been run on vein, which is from 4 to 6 feet wide of good milling ore. It will be noted that this ore, per Becker, assays from 0.18 to 0.44 ounces gold per ton.

The South Tunnel is about 200 feet in length connecting with the "Big Stope" at back end, which is now partly caved; but ore faces in stope are accessible for sampling.

The North Tunnel starts as an open cut about 100 feet in length on the main vein, and continues south as a tunnel partly on vein and partly in the foot wall to a point where it connects with the "Big Stope" workings. Also there is a shaft 100 feet deep on vein near the mouth of the open cut at north end of property; also a 100-foot drift running south on vein from the bottom of the said 100-foot shaft and connects with a raise to the open cut above. All of these workings are open and accessible for sampling.

MINE SAMPLED BY OTHER ENGINEERS:

After the Portland mine was abandoned by Gold Standard, it was sampled by engineers representing the Continental Mining Company of New York and also by Mette and Hamron of Los Angeles. The average results of both of these samplings gave better than $7.00 gold per ton, according to records in McVicar's office, and which can be examined at any convenient time.

0.200²

WATER:

Ample water for milling and domestic purposes could be secured from the Colorado River, six miles from property, by means of an application for a water right from the Arizona Water Commission.

MILLING PLANT:

Further work should be done on the Portland Mine in order to determine its ore reserves, average value of ore, and the capacity of a treatment plant that should be installed at a later time. As additional ore could be secured in quantity for such a plant from four or five other gold mines within a radius of 10 miles of Portland, it is believed that an operation could finally be developed that would result in supplying a mill of large capacity, say from 300 to 500 tons daily, with gold ore of goodly grade over a long period of years.

Elgin B. Holt

Elgin B. Holt,
Field Engineer.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine PORTLAND Date March 3, 1944

District Minnesota-Weaver, Mohave Co. Engineer Elgin P. Holt

Subject: Gold Mine Survey

R E P O R T

OWNER: J. A. Potter, Kingman, Arizona.

AGENT: E. A. McVicar, Kingman, Arizona.

METALS: Gold with small amount of silver.

AREA: LOCATION: This property, consisting of 3 patented and 5 unpatented claims, is situated in Mohave County, Arizona, 50 miles northwest of Kingman and six miles east of the Colorado River. From Kingman, the property is reached by following U. S. Highway 93 north 28 miles to Pleasant Valley Junction; thence west along the Searchlight road for 10 miles; thence southwesterly about 12 miles to the mine.

HISTORICAL:

Property was discovered about 1920. From 1935 to 1940 it was worked under a lease and option arrangement by the Gold Standard Mines Corporation. During this period approximately 132,000 tons of ore were milled averaging $7.22 gold per ton, according to settlement sheets now on file in McVicar's office in Kingman. The said ore was treated in the Katherine cyanidation plant located 11 miles southeasterly from property, or about 16 miles over a very poor sandy road, over which the ore was hauled by trucks. The property was abandoned during 1940 by Gold Standard due mainly to the fact about that time this company secured control and started operating the Tyro mine, a much larger property and located only 7 miles from the Katherine mill.

GEOLOGY:

Per F. C. Schrader, 1909, "The country rock", of that mineral area, "consists of the Tertiary volcanic rocks, with rhyolite and green chloritic andesite most abundant."

ORE RESERVES:

During April, 1937, after the Gold Standard company had started work on the Portland mine, Mr. Clyde M. Becker, a very able geologist, reported on that property as follows:

"I estimated that approximately 700 feet of development work on these three ore bodies had proven 287,000 tons of ore of an average value of $6.64 (gold) per ton."

Referring to the cross-vein on the Portland claim, Becker stated: "On the little ore body an inclined shaft had been sunk 100 feet with ore of grade similar in type and values to the south tunnel ore body. A series of assays taken at 95 feet ran 0.18 to 0.44 ounces gold. All carry silver in the approximate ration of 5 to 1 by weight. No other mineral (metallics) is present."

MAIN VEIN:

The main vein, which strikes north to south, is a wide flat vein dipping about 35 degrees easterly. The deepest work on mine is about 100 feet vertically, reaching the permanent water level. The main vein mentioned is exposed on surface for around 1200 feet; but it is believed to extend 500 feet further to the south through a basin where the vein is covered by debris. This vein is wide, averaging 12 feet in thickness, but "bellies" out in places to 20 feet or more in width. The vein gangue is composed of quartz and calcite, with no deleterious metals present. Hence the ore is ideal for treatment by cyanidation, by which process around 97% of gold values should be recovered.

MINE WORKINGS:

The main workings of property consist of the following openings: 1. A 100-foot shaft sunk on the cross-vein, exposing the "Little Ore Body" mentioned by Becker. 2. The South Tunnel which develops the "South Tunnel Ore Body"; and 3. The North Tunnel, which develops the "North Tunnel Ore Body." Also at the bottom of the 100-foot shaft on the cross-vein a drift 100 feet in length has been run on vein, which is from 4 to 6 feet wide of good milling ore. It will be noted that this ore, per Becker, assays from 0.18 to 0.44 ounces gold per ton.

The South Tunnel is about 200 feet in length connecting with the "Big Stope" at back end, which is now partly caved; but ore faces in stope are accessible for sampling.

The North Tunnel starts as an open cut about 100 feet in length on the main vein, and continues south as a tunnel partly on vein and partly in the foot wall to a point where it connects with the "Big Stope" workings. Also there is a shaft 100 feet deep on vein near the mouth of the open cut at north end of property; also a 100-foot drift running south on vein from the bottom of the said 100-foot shaft and connects with a raise to the open cut above. All of these workings are open and accessible for sampling.

MINE SAMPLED BY OTHER ENGINEERS:

After the Portland mine was abandoned by Gold Standard, it was sampled by engineers representing the Continental Mining Company of New York and also by Mette and Hamron of Los Angeles. The average results of both of these samplings gave better than $7.00 gold per ton, according to records in McVicar's office, and which can be examined at any convenient time.

WATER:

Ample water for milling and domestic purposes could be secured from the Colorado River, six miles from property, by means of an application for a water right from the Arizona Water Commission.

MILLING PLANT:

Further work should be done on the Portland Mine in order to determine its ore reserves, average value of ore, and the capacity of a treatment plant that should be installed at a later time. As additional ore could be secured in quantity for such a plant from four or five other gold mines within a radius of 10 miles of Portland, it is believed that an operation could finally be developed that would result in supplying a mill of large capacity, say from 300 to 500 tons daily, with gold ore of goodly grade over a long period of years.

Elgin B. Holt

Elgin B. Holt,
Field Engineer.

I.07
I.06
Surface, not U.G.

EXPLANATION

ROCK CHIP SAMPLES

1.13 — Horizontal sample or sample w/>10' horizontal component.

0.76 — Vertical sample or sample w/<10' horizontal component.

1.78 — Underground sample (*values in italics*)

Main Vein Complex (projected under cover)

Footwall Breccia (projected under cover)

SILVER VALUES

+ 1.5 oz/ton

1.0 – 1.5 oz/ton

0.5 – 1.0 oz/ton

< 0.5 oz/ton

Hanging wall sample, all values ≤ 0.22 oz

Diamond Drill Hole

Rotary Drill Hole

Prospect Trench

north

surface, not U.G.

ASSAY MAP – SILVER

PORTLAND GOLD MINE

MOHAVE COUNTY, ARIZONA

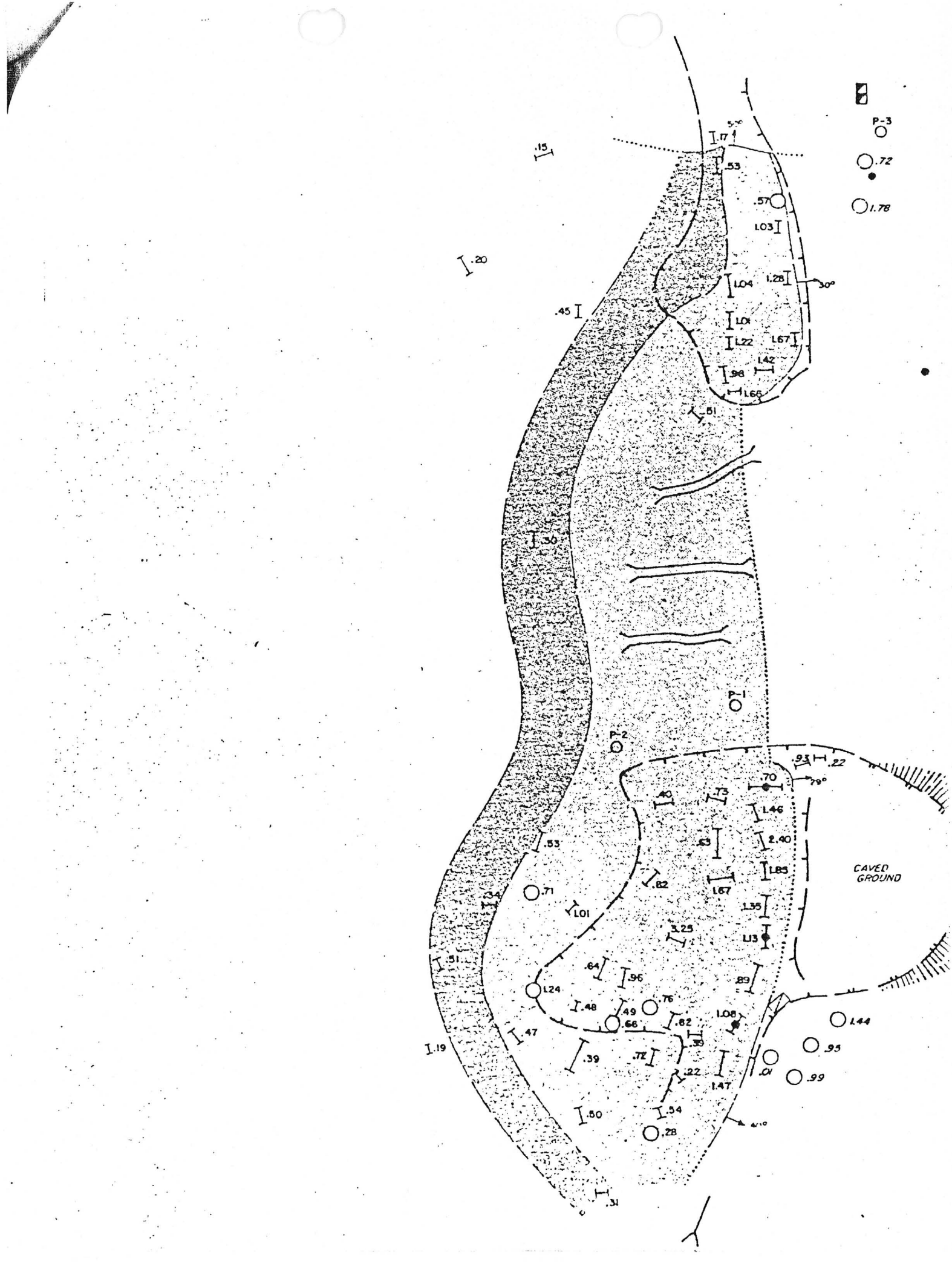
scale 1" = 100'

100'

Brunton Triangulation and Pace Control

S.R Davis

Oct 1976


P-3
.72
1.78
.15
.17
.53
.57
1.03
.20
1.04
1.28
30°
.45
1.01
1.22
1.67
1.42
.98
1.66
.51
.30
P-1
P-2
.93
.22
79°
.70
.40
.73
1.46
.53
.63
2.40
CAVED GROUND
.82
1.67
1.85
.71
1.01
1.35
3.25
1.13
.51
.64
.96
.89
1.24
1.48
.49
.76
1.08
.66
.82
1.44
.47
.95
1.19
.39
.72
.22
1.47
.01
.99
.50
1.54
.28
.31

DEPARTMENT OF MINERAL RESOU[illegible]
State of Arizona
FIELD ENGINEERS REPORT

MINE: PORTLAND DATE: March 5, 1944

DISTRICT: Minnesota-Weaver, Mohave Co. ENGINEER: Elgin B. Holt

SUBJECT: Gold Mine Survey

REPORT

OWNER: J. A. Potter, Kingman, Arizona

AGENT: E. A. McVicar, Kingman, Arizona

METALS: Gold with small amount of silver

AREA: LOCATION: This property, consisting of 3 patented and 5 unpatented claims, is situated in Mohave County, Arizona, 50 miles northwest of Kingman and six miles east of the Colorado River. From Kingman, the property is reached by following U. S. Highway 93 north 28 miles to Pleasant Valley Junction; thence west along the Searchlight road for 10 miles; thence southwesterly about 12 miles to the mine.

HISTORICAL:

Property was discovered about 1920. From 1935 to 1940 it was worked under a lease and option arrangement by the Gold Standard Mines Corporation. During this period approximately 132,000 tons of ore were milled averaging $7.22 gold per ton, according to settlement sheets now on file in McVicar's office in Kingman. The said ore was treated in the Katherine cyanidation plant located 11 miles southeasterly from property, or about 16 miles over a very poor sandy road, over which the ore was hauled by trucks. The property was abandoned during 1940 by Gold Standard due mainly to the fact about that time this company secured control and started operating the Tyro mine, a much larger property and located only 7 miles from the Katherine mill.

GEOLOGY: Per F. C. Schrader, 1909, "The country rock", of that general area, "consists of the Tertiary volcanic rocks, with rhyolite and green chlorite andesite most abundant."

ORE RESERVES: During April, 1937, after the Gold Standard company had started work on the Portland mine, Mr. Clyde M. Becker, a very able geologist, reported on that property as follows:

"I estimated that approximately 700 feet of development work on these three ore bodies had proven 287,000 tons of ore of an average value of $6.64 (gold) per ton."

Referring to the cross-vein on the Portland claim, Becker stated: "On the little ore body an inclined shaft had been sunk 100 feet with ore of grade similar in type and values to the south tunnel ore body. A series of assays taken at 95 feet ran 0.18 to 0.44 ounces gold. All carry silver in the approximate ration of 5 to 1 by weight. No other mineral (metallics) is present."

MAIN VEIN: The main vein, which strikes north to south, is a wide flat vein dipping about 35 degrees easterly. The deepest work on mine is about 100 feet vertically, reaching the permanent water level. The main vein mentioned is exposed on surface for around 1200 feet; but it is believed to extend 500 feet further to the south through a basin where the vein is covered by debris. This vein is wide,

averaging 12 feet in thickness, but "bellies" out in places to 20 feet or more in width. The vein gangue is composed of quartz and calcite, with no deleterious metals present. Hence the ore is ideal for treatment by cyanidation, by which process around 97% of gold values should be recovered.

MINE WORKINGS: The main workings of property consist of the following openings: 1. A 100-foot shaft sunk on the cross-vein, exposing the "Little Ore Body" mentioned by Becker. 2. The South Tunnel which develops the "South Tunnel Ore Body"; and 3. The North Tunnel, which develops the "North Tunnel Ore Body." Also at the bottom of the 100-foot shaft on the cross-vein a drift 100 feet in length has been run on vein, which is from 4 to 6 feet wide of good milling ore. It will be noted that this ore, per Becker, assays from 0.18 to 0.44 ounces gold per ton.

The South Tunnel is about 200 feet in length connecting with the "Big Stope" at back end, which is now partly caved; but ore faces in stope are accessible for sampling.

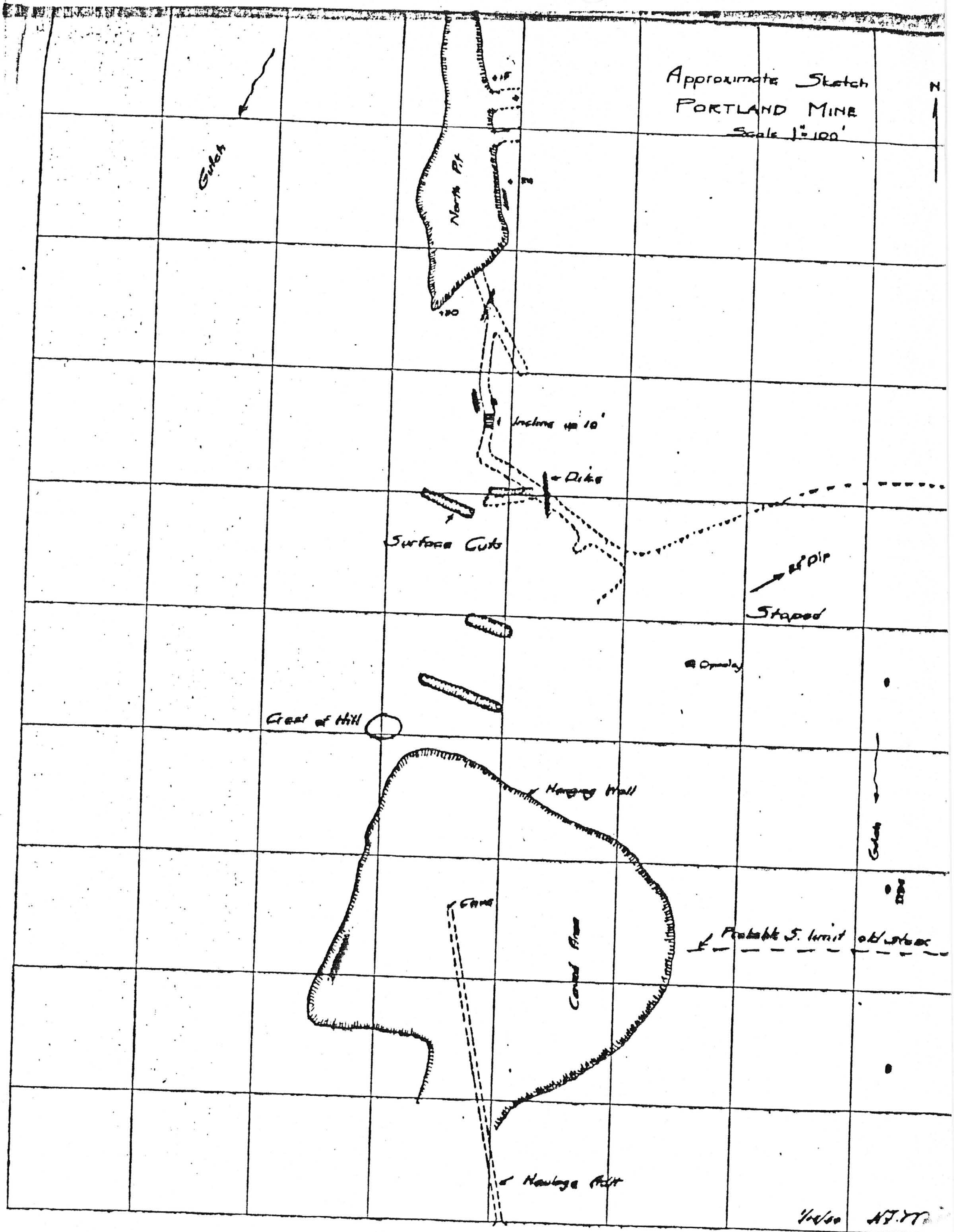
The North Tunnel starts as an open cut about 100 feet in length on the main vein, and continues south as a tunnel partly on vein and partly in the foot wall to a point where it connects with the "Big Stope" workings. Also there is a shaft 100 feet deep on vein near the mouth of the open cut at north end of property; also a 100-foot drift running south on vein from the bottom of the said 100-foot shaft and connects with a raise to the open cut above. All of these workings are open and accessible for sampling.

MINE SAMPLED BY OTHER ENGINEERS: After the Portland mine was abandoned by Gold Standard, it was sampled by engineers representing the Continental Mining Company of New York and also by Motte and Hamron of Los Angeles. The average results of both of these samplings gave better than $7.00 gold per ton, according to records in McVicar's office, and which can be examined at any convenient time.

WATER: Ample water for milling and domestic purposes could be secured from the Colorado River, six miles from property, by means of an application for a water right from the Arizona Water Commission.

MILLING PLANT: Further work should be done on the Portland Mine in order to determine its ore reserves, average value of ore, and the capacity of a treatment plant that should be installed at a later time. As additional ore could be secured in quantity for such a plant from four or five other gold mines within a radius of 10 miles of Portland, it is believed that an operation could finally be developed that would result in supplying a mill of large capacity, say from 300 to 500 tons daily, with gold ore of goodly grade over a long period of years.

/s/ Elgin B. Holt
Elgin B. Holt
Field Engineer



92807; that between September 1, 1978 and September 1, 1979, in excess of $34,000.00 worth of work and improvements were done and performed for the benefit of each of the aforementioned claims (19). Work and improvements consisted of road work and drill site preparation performed by Freiday Construction, 3360 North Bank Street, Kingman, Arizona 86401, and air hammer drilling performed by Hugh M. Harris Drilling Company, 13636 Jack Rabbit Road, Poway, California 92064

Said labor was performed and improvements made at the expense of ASARCO Incorporated, for the benefit of each and all of said mining claims comprising said contiguous groups as part of a general plan of exploration, improvements, and development, and they tend to explore, improve and develop each and all of said mining claims. The amount expended for and the value of said labor and improvements is more than One Hundred Dollars ($100.00) for each of the mining claims and at least said amount was allocated to each of the mining claims. Said expenditure was made in good faith for the purpose of exploring, improving and developing said contiguous groups of mining claims, and was intended as annual labor and improvements for each and all of the above-described unpatented lode mining claims for the assessment year ending at 12:00 o'clock meridian, September 1, 1979.

ASARCO Incorporated

By R. B. Crist
Agent

STATE OF ARIZONA)
) ss
County of Pima)

The foregoing instrument was acknowledged before me this 10th day of August, 1979, by R. B. Crist.

Mildred C Cain
Notary Public

My Commission Expires:

My Commission Expires Nov. 28, 1980

Ret. Asarco Inc.
P.O. Box 5747
Tucson, Az 85703

79-26557
STATE OF ARIZONA } ss PROOFED
County of Mohave }
I hereby certify that the within instrument was filed and recorded at request of Asarco
AUG 13 '79 -8 00 AM
in Book 564 of official records page 562-563
Witness my hand and official seal the day and year aforesaid.
JOAN McCALL
Mohave County Recorder
By [signature]
Deputy Recorder

AFFIDAVIT OF LABOR PERFORMED
AND IMPROVEMENTS MADE

STATE OF ARIZONA)
) ss
County of Pima)

R. B. Crist, being first duly sworn, deposes and says that he is a citizen of the United States and more than twenty-one (21) years of age, and resides in Tucson, County of Pima, State of Arizona, and is personally acquainted with the mining claims situated in the Weaver Mining District, Mohave County, Arizona, the names and books and pages of record in the office of the County Recorder of Mohave County, Arizona, and the Bureau of Land Management serial number of the Notices of Location whereof are as follows:

Name of Claim	Original Book	Original Page	Relocated Book	Relocated Page	BLM Serial No. A MC
Goodluck	3N	478	496	69/71	28157
Betterluck	"	479	"	75/77	" 58
Betterluck No.1	"	480	"	78/80	" 59
Sunshine No.3	3U	67	"	72/74	" 60
Portland No.1	"	66	"	81/83	" 61
Portland No.2	3Q	349	"	84/86	" 62
Portland No.3	3U	68	"	87/89	" 63
Portland No.4	496	90/92			" 64
Portland No.5	"	93/95			" 65
Portland No.6	"	96/98			" 66
Portland No.7	"	99/101			" 67
Portland No.8	"	102/104			" 68
Portland No.9	"	105/107			" 69
Portland No.10	"	108/110			" 70
Portland No.11	"	111/113			" 71
Portland No.12	'	114/116			" 72
Portland No.13	"	117/119			" 73
Portland No.14	"	120/122			" 74
Portland No.15	"	123/124			" 75

That all of said mining claims are held in ownership by ASARCO Incorporated, the mailing address for which is P. O. Box 5747, Tucson, Arizona 85703, and Mona Potter, L. M. and J. N. Wiscombe, and L. G. and S. L. Clark, who represents the group, at 3955 Maple Tree Drive, Anaheim, California

3

Notice of Mining Location

CRANE & CO., TOPEKA

LODE CLAIM

TO ALL WHOM IT MAY CONCERN:

This mining Claim, the name of which is the PORTLAND No. 3 Mining Claim, situate on lands belonging to the United States of America, and in which there are valuable mineral deposits, was entered upon and located for the purpose of exploration and purchase by ---PORTLAND LINES INCORPORATED -- AN ARIZONA CORPORATION,

(Locator must insert either "a citizen of the United States" or "who has declared his intention to become a citizen of the United States.") the undersigned, on the 4th day of April, 1939.

The length of this claim is FIFTEEN/(1500') HUNDRED & No/100 feet, and it claims SEVEN / (750') Hundred Fifty & No/100 feet in a Northwesterly direction and 750 feet in a Southeasterly direction from the center of the discovery shaft, at which this notice is posted, lengthwise of the claim, together with THREE HUNDRED & No/100 / (300') feet in width of the surface grounds, on each side of the center of said claim. The general course of the lode deposit and premises is from the Northwest to the Southeast.

The claim is situated and located in the Minnesota Mining District, in Mohave County, in the State of Arizona, about 1800 feet in a Southerly direction from Main workings of the Portland Line: The northerly side line of this claim is identical with the Southerly side line of the PORTLAND, patented lode claim.

The surface boundaries of the claim are marked upon the ground as follows: Beginning at

at a point in a direction feet from the discovery shaft (at which this notice is posted), being in the center of the end line of said claim; thence feet to a , being the corner of said claim; thence feet to a being at the corner of said claim; thence feet to a at the center of the end of said claim; thence feet to a , being at the corner of said claim; thence feet to a at the corner of said claim; thence feet to the place of beginning.

Dated and posted on the ground, this 4th day of April, 1939.

PORTLAND LINES INCORPORATED

By E. ... LeVieux

Agent

J. ... Potter

Filed and recorded at request of E. ... LeVieux this 10th day of April, 1939, at 4:40 o'clock P. M., in Book 3 U at Page 60.

Mary E. Garrow
County Recorder.

No. 15038

By L. E. Jones
Deputy Recorder.

PARCEL NO	CO	BOOK	MAP	PARCEL
1949	08	307	37	045 0

AREA CODE	PRIMARY COMB RT	SECONDARY COMB RT
0	9.3331	.9622

1ST HALF PAID	2ND HALF PAID
413	413

	1ST HALF	2ND HALF
PENALTY		
SERVICE CHARGE		

PARCEL NO	CO	BOOK	MAP	PARCEL
1950	08	307	37	046 3

AREA CODE	PRIMARY COMB RT	SECONDARY COMB RT
0	9.3331	.9622

1ST HALF PAID	2ND HALF PAID
413	413

	1ST HALF	2ND HALF
PENALTY		
SERVICE CHARGE		

PARCEL NO	CO	BOOK	MAP	PARCEL
1951	08	307	37	047 6

AREA CODE	PRIMARY COMB RT	SECONDARY COMB RT
00	9.3331	.9622

1ST HALF PAID	2ND HALF PAID
413	413

SECONDARY	FULL CASH VALUE	ASMT %	ASSESSED VALUE	EXEMPTION
LAND	2612	160	418	0
BLDGS ETC	32715	160	5234	0
PERSONAL PROPERTY	0	00	0	0
TOTALS ▶	35327		5652	0

SERVICE CHARGE

TAX CODE	1979	1980	DIFFERENCE
00986	2402	7034	4632
02000	13002	15126	2124
05011	18616	13966	-4650
06100	15813	14147	-1666
08150	4905	5111	206
	54738	55384	646

PRIMARY TAX	51698
ADDITIONAL STATE AID	00
5% TAX REDUCTION	00
SECONDARY TAX	3686
SPECIAL DISTRICTS	00
TOTAL TAX DUE	55384

CLARK SAMUEL & LA VONNE &
POTTER JAMES A
% MOND G POTTER
% THE BIRD CAGE
6750 HAWAII KAI DR NO 1005
HONOLULU HI 91106

TAX ROLL NO	CO	BOOK	MAP	PARCEL
101974	08	307	43	001 9

AREA CODE	PRIMARY COMB RT	SECONDARY COMB RT
1500	9.3331	.9622

SEC 15 23 21 PAT CLAIMS; SUNSHINE; SUNSHINE #2 40.00AC M/L

PRIMARY	LIMITED VALUE	ASMT %	ASSESSED VALUE	EXEMPTION
LAND BLDGS ETC	800	160	128	0
PERSONAL PROPERTY	0	00	0	0
TOTALS ▶	800		128	0
SECONDARY	**FULL CASH VALUE**	**ASMT %**	**ASSESSED VALUE**	**EXEMPTION**
LAND	800	160	128	0
BLDGS ETC	0	00	0	0
PERSONAL PROPERTY	0	00	0	0
TOTALS ▶	800		128	0

1ST HALF PAID	2ND HALF PAID
660	660

	1ST HALF	2ND HALF
PENALTY		
SERVICE CHARGE		

TAX CODE	1979	1980	DIFFERENCE
00986	60	161	101
02000	325	345	20
05015	493	376	-117
06100	395	322	-73
08150	123	116	-07
	1396	1320	-76

PRIMARY TAX	1196
ADDITIONAL STATE AID	00
5% TAX REDUCTION	00
SECONDARY TAX	124
SPECIAL DISTRICTS	00
TOTAL TAX DUE	1320

< L 22 >

CLARK SAMUEL & LA VONNE &
POTTER JAMES A
% MOND G POTTER
% THE BIRD CAGE
6750 HAWAII KAI DR NO 1005
HONOLULU HI 91106

TAX ROLL NO	CO	BOOK	MAP	PARCEL
101975	08	307	43	002 2

AREA CODE	PRIMARY COMB RT	SECONDARY COMB RT
1500	9.3331	.9622

SEC 15 23 21 PAT CLAIMS; PORTLAND 20.00AC M/L UNDIV INT

PRIMARY	LIMITED VALUE	ASMT %	ASSESSED VALUE	EXEMPTION
LAND BLDGS ETC	400	160	64	0
PERSONAL PROPERTY	0	00	0	0
TOTALS ▶	400		64	0
SECONDARY	**FULL CASH VALUE**	**ASMT %**	**ASSESSED VALUE**	**EXEMPTION**
LAND	400	160	64	0
BLDGS ETC	0	00	0	0
PERSONAL PROPERTY	0	00	0	0
TOTALS ▶	400		64	0

1ST HALF PAID	2ND HALF PAID
329	329

	1ST HALF	2ND HALF
PENALTY		
SERVICE CHARGE		

TAX CODE	1979	1980	DIFFERENCE
00986	30	80	50
02000	165	172	07
05015	248	188	-60
06100	199	160	-39
08150	62	58	-04
	704	658	-46

PRIMARY TAX	596
ADDITIONAL STATE AID	00
5% TAX REDUCTION	00
SECONDARY TAX	62
SPECIAL DISTRICTS	00
TOTAL TAX DUE	658

MAC EWEN WALTER
THOMPSON HELEN
% JOHN B MARRON ATTY
MAYER CTRL BLDG #504
PHOENIX AZ 85012

TAX ROLL NO	CO	BOOK	MAP	PARCEL
101976	08	307	45	001 5

AREA CODE	PRIMARY COMB RT	SECONDARY COMB RT
1100	9.1888	.6519

SEC 14 24 20 NE4 160AC

PRIMARY	LIMITED VALUE	ASMT %	ASSESSED VALUE	EXEMPTION
LAND BLDGS ETC	533	160	85	0
PERSONAL PROPERTY	0	00	0	0
TOTALS ▶	533		85	0
SECONDARY	**FULL CASH VALUE**	**ASMT %**	**ASSESSED VALUE**	**EXEMPTION**
LAND	582	160	93	0
BLDGS ETC	0	00	0	0
PERSONAL PROPERTY	0	00	0	0
TOTALS ▶	582		93	0

1ST HALF PAID	2ND HALF PAID
421	421

	1ST HALF	2ND HALF
PENALTY		
SERVICE CHARGE		

TAX CODE	1979	1980	DIFFERENCE
00986	36	106	70
02000	198	230	32
05011	283	212	-71
06100	240	217	-23
08150	75	77	02

PRIMARY TAX	780
ADDITIONAL STATE AID	00
5% TAX REDUCTION	00
SECONDARY TAX	62
SPECIAL DISTRICTS	00

SECONDARY	FULL CASH VALUE	ASMT %	ASSESSED VALUE
LAND	2000	160	320
BLDGS ETC	0	00	0
PERSONAL PROPERTY	0	00	0
TOTALS ▶	2000		320

TAX CODE	1979	1980	DIFFERENCE
00986	150	401	251
02000	814	860	46
05011	1164	794	-370
06100	989	804	-185
08150	307	291	-16
	3424	3150	-274

TRANSAMERICA TITLE INS CO
% INT & INV CO
PO BOX 500
PHOENIX AZ 85001

CHLORIDE GATEWAY ACRES TR 6 LOT 55 SEC

PRIMARY	LIMITED VALUE	ASMT %	ASSESSED VALUE
LAND BLDGS ETC	500	160	80
PERSONAL PROPERTY	0	00	0
TOTALS ▶	500		80
SECONDARY	**FULL CASH VALUE**	**ASMT %**	**ASSESSED VALUE**
LAND	500	160	80
BLDGS ETC	0	00	0
PERSONAL PROPERTY	0	00	0
TOTALS ▶	500		80

TAX CODE	1979	1980	DIFFERENCE
00986	37	101	64
02000	203	215	12
05011	290	198	-92
06100	246	201	-45
08150	76	73	-03
	852	788	-64

< L 23 >

SUGGS FAMILY TRUST
SUGGS ELLIS & DOROTHY TRUSTEES
5820 E ORANGE BLOSSOM LANE
PHOENIX AZ 85018

GATEWAY ACRES TR #6 LOT 56 SEC 1 24N 2

PRIMARY	LIMITED VALUE	ASMT %	ASSESSED VALUE
LAND BLDGS ETC	100	160	16
PERSONAL PROPERTY	0	00	0
TOTALS ▶	100		16
SECONDARY	**FULL CASH VALUE**	**ASMT %**	**ASSESSED VALUE**
LAND	100	160	16
BLDGS ETC	0	00	0
PERSONAL PROPERTY	0	00	0
TOTALS ▶	100		16

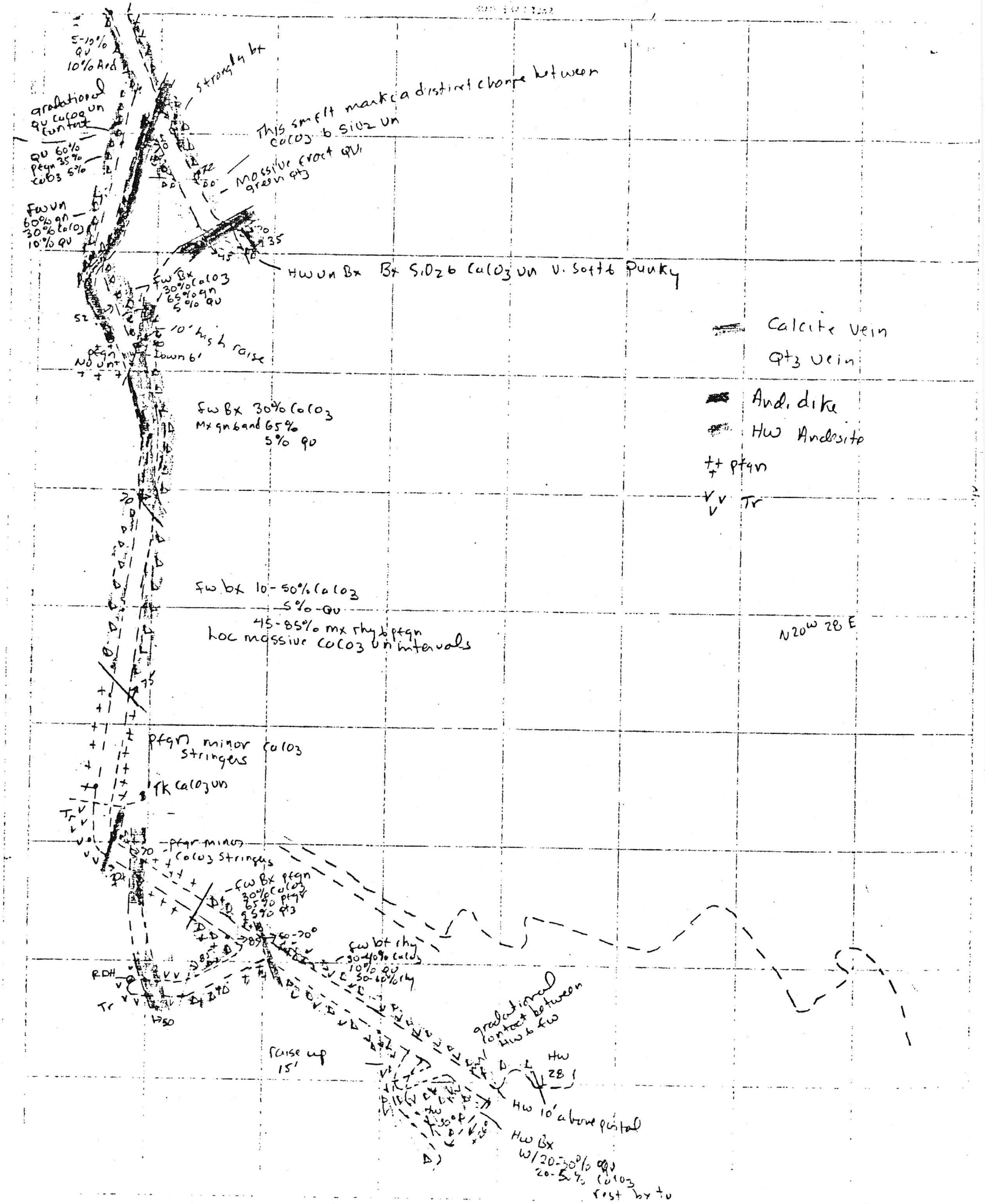
TAX CODE	1979	1980	DIFFERENCE
00986	08	20	12
02000	43	44	01
05011	60	40	-20
06100	51	41	-10
08150	16	15	-01
	178	160	-18

SUGGS FAMILY TRUST
SUGGS ELLIS & DOROTHY TRUSTEES
5820 E ORANGE BLOSSOM LANE
PHOENIX AZ 85018

GATEWAY ACRES TR #6 LOT 57 SEC 1 24N 20

PRIMARY	LIMITED VALUE	ASMT %	ASSESSED VALUE
LAND BLDGS ETC	100	160	16
PERSONAL PROPERTY	0	00	0
TOTALS ▶	100		16
SECONDARY	**FULL CASH VALUE**	**ASMT %**	**ASSESSED VALUE**
LAND	100	160	16
BLDGS ETC	0	00	0
PERSONAL PROPERTY	0	00	0
TOTALS ▶	100		16

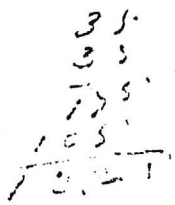
TAX CODE	1979	1980	DIFFERENCE
00986	08	20	12
02000	43	44	01
05011	60	40	-20
06100	51	41	-10
08150	16	15	-01

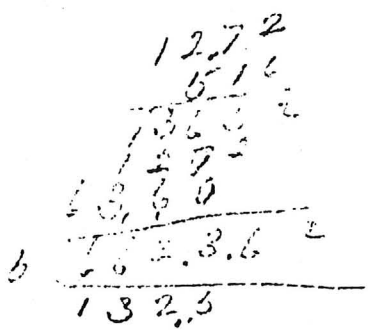


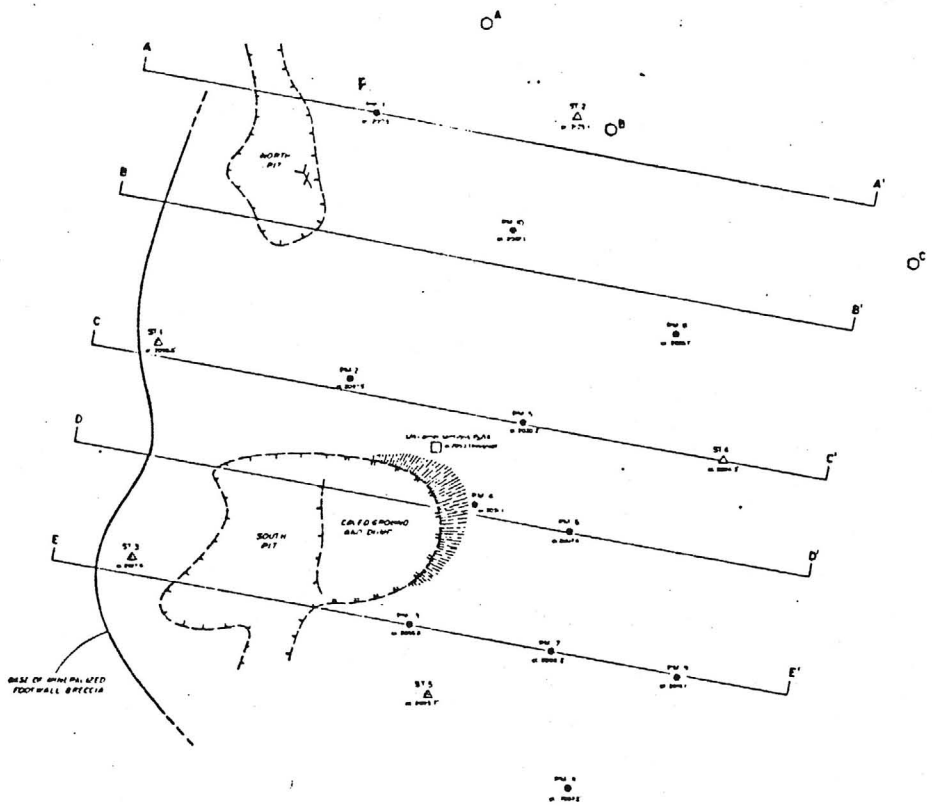
5-10% QV
10% And
strongly bx
gradational qv caco3 vn contact
This smelt marks a distinct change between CaCO3 & SiO2 vn
QV 60%
ptgn 35%
CaCO3 5%
Massive Fract QV green Qtz
Fw vn
60% gn
30% CaCO3
10% QV
35
45
HW vn Bx Bx SiO2 & CaCO3 vn v. soft & punky
fw Bx
30% CaCO3
65% gn
5% QV
52
10' high raise
ptgn
No vn
Down 6'
Calcite Vein
Qtz Vein
And. dike
HW Andesite
ptgn
Tr
fw Bx 30% CaCO3
Mx gn band 65%
5% QV
70
fw bx 10-50% CaCO3
5% QV
45-85% mx rhy & ptgn
Loc massive CaCO3 vn intervals
N20W 28 E
75
ptgn minor CaCO3 stringers
1k CaCO3 vn
Tr
ptgn minor CaCO3 stringers
70
fw Bx ptgn
30% CaCO3
65% ptgn
5% Qtz
50-70
85
fw bt rhy
30-40% CaCO3
10% QV
30-60% rhy
RDH
Tr
50
raise up 15'
gradational contact between Hw & Fw
Hw
28
Hw 10' above portal
Hw Bx
w/20-30% QV
20-50% CaCO3
rest bx tv

PORTLAND MINES, INC. Report of ore shipped to Gold Standard mill, Aug.13 to Aug.25, 1935.

LOT	AUG.	TONS	PORTLAND ASSAY GOLD	PORTLAND ASSAY SILVER	GOLD STD ASSAY GOLD	GOLD STD ASSAY SILVER	UMPIRE ASSAY GOLD	UMPIRE ASSAY SILVER	AVERAGE VALUE IN DOLLARS.
24	13	34.35	0.354	0.48	0.353	1.05			13.17
25	14	71.95	0.313	1.00	0.260	0.84	0.305	1.10	12.72
26	15	35.55	0.308	1.09	0.267	0.74	0.280	——	
27	20	70.75	0.464	1.76	0.427	1.50			
28	21	65.60	0.450	1.00	0.387	1.19			
29	22	75.00	0.356	1.57	0.300	1.05			
30	23	67.65	0.237	1.33	0.240	0.96			
31	24	68.15	0.254	1.00	0.226	0.77			
32	25	27.20	0.403	1.42	0.373	1.36			







EXPLANATION

- ASARCO DRILL HOLE - PM SERIES
- △ TRIANGULATION STATION
- ○ PROPOSED DRILL HOLE
- ● PROPOSED DRILL HOLE (ETC 6/7/79)

NORTH

PORTLAND PROJECT

DRILLING PROGRESS MAP

MOHAVE COUNTY, ARIZONA

0 SCALE 100'

TO ACCOMPANY SUPPL.
EXPL. AUTH. REQUEST
DATED 6-7-79
BY F.T. GRAYBEAL

No. 1

	CORES	
	AU.	AG.
0'	.10	1.28
	.18	1.06
	.03	1.03
	.03	0.90
	.03	0.87
25'	.03	0.95
	.02	0.70
	.05	0.57
	.02	1.36
	.03	1.59
50'	.05	1.60
	.02	1.14
	.03	1.02
	.07	0.71
	.12	0.78
75'	.36	0.79
	.03	0.34
	.02	0.53
	.05	0.21
	.03	0.03
100'	.30	0.75
	.24	1.12
	.02	0.91
	.05	0.80
	.02	0.24
125'	.01	0.00

No. 2

	CORES	
	AU.	AG.
0'	.10	0.83
	.05	2.60
	.05	1.45
	.05	0.93
	.02	0.47
25'	.03	0.36
	.12	0.88
	.05	1.10
	.05	1.11
	.01	0.72
50'	.02	0.50
	.04	0.76
	.03	0.71
	.03	0.77
	.23	0.84
75'	.06	0.50
	.09	0.95

No. 3

	CORES	
	AU.	AG.
0'	.09	0.3
	.11	0.4
	.40	0.7
	.31	0.4
	.03	0.1
25'	.05	0.2
	.07	0.3
	.05	0.3
	.24	0.9
	0.10	1.2
50'	.04	1.2
	.03	0.9

No. 4

0'	.12	0.4
	.14	0.3
	.10	0.4
	.03	0.1
	.10	0.3
25'	.07	0.1
	.01	.02
	.41	0.1
	.04	1.51
	.02	0.36
50'	.11	2.00
	.03	0.49

PORTLAND MINE ASSAYS

	AU.
No. 350	.05
175	.12
170	.25
521	.02
522	.02
523	.01
524	.03
525	.02
1031	.30
1030	.67
1028	.02
1564	.34
1565	.11
1568	.17
1569	.14
1570	.19
1467	.13
1468	.00
1469	.06
1470	.08
1478	.12
1479	.11
1480	.24
1481	.17

NOTICE OF RELOCATION
(Lode)

NOTICE IS HEREBY GIVEN that the PORTLAND No. 3 Lode Mining Claim was relocated by ASARCO Incorporated, whose address is P.O.Box 5747, Tucson, Arizona 85703, on SEPT. 20th, 1978.

This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 600 feet in width (300 feet on either side of the center line of the claim), forming a claim in the shape of a parallelogram. The general course of the claim is EAST & WEST. This notice is posted at the NORTHWEST corner of the claim, which location monument is in Section 15, Township 23 N., Range 21 W., G&SRM.

The claim is situated in the Weaver Mining District, the location notice is posted approximately 660'N. & 1100'W. of section corners common to 14-15-22 & 23, and falls within the SE¼ of Section(s) 15, Township 23N, Range 21W, G&SRM, Mohave County, Arizona.

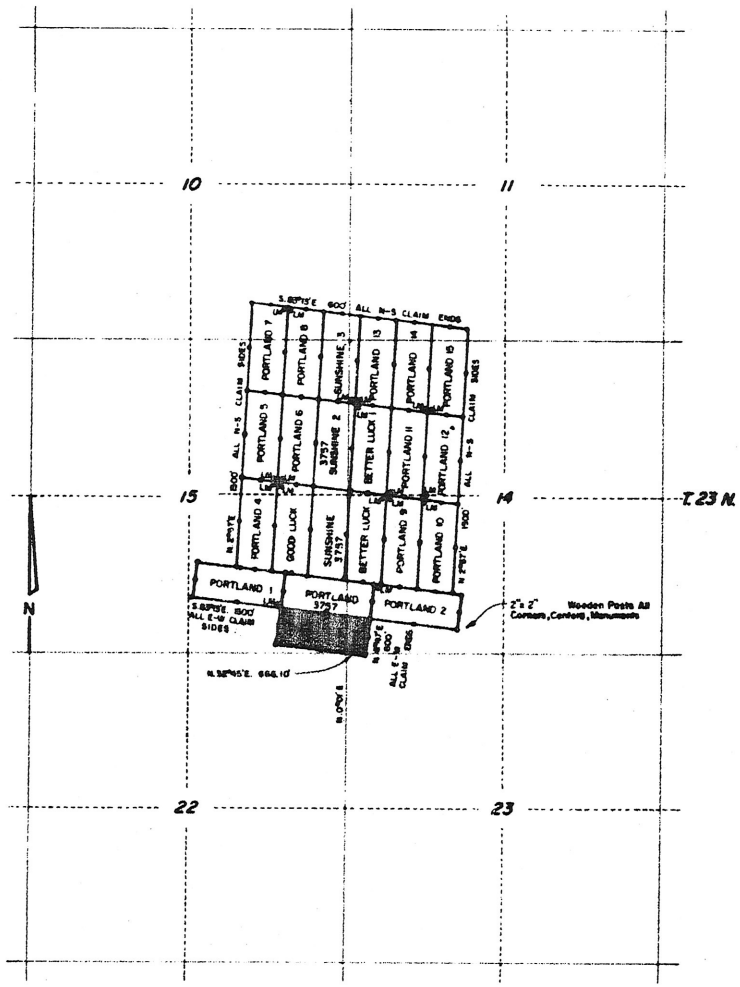
This is intended as an original location of the PORTLAND No. 3 Lode Mining Claim, covering all of the same ground included in the PORTLAND No. 3 Lode Mining Claim, the Notice of Location of which is recorded in the Official Records, Book 30, Page(s) 68, of Mohave County, Arizona. All of the requirements of law relating to the location of mining claims will be complied with by this location, including the performance of new location work, but by this location, the locator does not intend to and does not waive or abandon any rights it has under and by virtue of the location of the said PORTLAND No. 3 Lode Mining Claim.

ASARCO Incorporated,

R. B. Cinti
Agent

William E. Johnson
Witness

BOOK 496 PAGE 87



LODE CLAIM	ORIG. LOCATOR	PRES. LOCATOR	ORIG. LOC DATE	RELOC / LOC. DATE
Portland 1, 2, 3 Good Luck Better Luck Better Luck 1 Sunshine 3 Portland 4-15	S.L. Clark 3955 Maple Tree Drive Anaheim, Ca. 92807	ASARCO Incorporated Box 5747 Tucson, Az 85703	all	Sept. 20, 1978

ASARCO Incorporated
Box 5747
Tucson, Az 85703

LODE CLAIMS
IN
MOHAVE COUNTY
ASARCO incorporated
1150 NORTH 7TH AVENUE
TUCSON, ARIZONA 85703

1" = 2000'

BOOK 496 PAGE 88

Indexed Misc PROOFED

FEE # 78-29965

Recorded at the Request of

ASARCO Inc.

on OCT 10 '78 -8 00 AM

in Book 496 OFFICIAL RECORDS,

Page(s) 87-89

Records of Mohave County Arizona

Joan McCall

Mohave County Recorder

By _____ Deputy

3

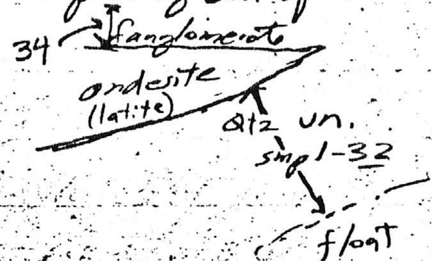
BOOK 496 PAGE 89

Au	As	
.122	1.35	Port 36→ next to H-4 (=.198) - 6.2' - goes deeper, mass. wh. c.c, locally coarse grained - bx frags silic - wh veins < 5% qtz
.292	1.8	Port 37→ in decline of E. N. pit - @ H-10 (.26) - not located prop. on map. - 6' wide smpl. not to h.w. or f.w. (3' from h.w. - f.w. buried). Att.: N25°E, Dip = 32°E Smpl = 70% c.c. - 20% qtz, 10% host (vs prev. 15-15 qtz-host)
.444	1.4	Port 38→ 5' wide smpl = 90% c.c. - 10% Qtz - in dg h.w. to N. in decline E. of N. Pit Att. - N15°W - 30°E
.005	.05	Port 39→ next to H-9 → .33 5' wide smpl. - 90% c.c. - 10% qtz [illegible] bx frags = v.n. locally bxed - little hem, from h.w. down - f.w. not exposed Att.: N5°W, 18°E (very undulating contact w/ h.w.)
.021	.10	Port 40→ 5.5' high - FACE drift - clay c.c. dk. wallrock. massive wh-brn cc in pods/veins - slick - N75°E - 52°SE - normal here host is highly altered intrusive (?) Major fault 15' from face: N40°E (-50°), 65°SE. - here porphyritic dike (latite) 2-2½' wide - gouge (hem stain) on hwt f.w. maj. structure. - intrusive in f.w., in h.w. bxed intr. w/ vein bx. General fault contact w/ vein / intrusive. If fault is normal, vein is @ surface to W. or eroded.
.052	.75	Port 41 - decline from N. Pit - 5.7' high - vein goes another 2' higher - bottom not seen - Massive pink-wh-qtz-c.c.. Top ½ is >75% qtz - bottom mostly cc.

Perry

[FRI- Oct. 31] PORTLAND - Pete & I

Au	Ag	
.009	<.05	Port 30 → 1.5' deeply fract- clay alt. andesite - .5. 1mm stringers white cc. on h.w. of vein - N12°W-21°E
.032	.2	Port → 31 → 5.0' thick - mixed lim. + clay + qtz., locally impr c.c. - soft w/ clay to hard → ≈70% Qtz. N18°W; 18°N.E.
.142	.8	Port. 32 → S. end of N. Pit 10' from top wall - vn. att. = ≈ N-S; 34°E dip (note - just below latite H.W. near pinching out of h.w. which is overlain by qtz. bearing fanglomerate. Smpl = 6.7' thick = 90+% qtz. = 5% host + poss. 5% cc. some hem stain - does not go to f.w. (15-20# smpl)
.196	2.8	Port 33 → 3.1' vert. chip - 70-80% - grn Qtz - white to pink clay, smpl doesn't go to f.w. AH. N27W, 27NE
.144	.80	Port - 34 → S. end of N. Pit - see above - sketch - into overlying fangl. for 3½' thick (true x- sect.) - very representative due to soft nature of unit - ≈ 30-40% Qtz - rest is clay + caliche matrix. AH. of fangl here ≈ N10°W - 10°E (rough cont w/ latite ~~~~ general dip). 10-15# smpl
.020	.6	Port 35 - S end of N. Pit - 20' below 32 - here 90% qtz - silica material, + host - smpl - 4' wide (overlain by 1½' thick latite which is ...



1435 S. 10th AVE.
P. O. BOX 1889

DUPLICATE

Jacobs Assay Office
Registered Assayers

PHONE 622-0813

Certificate No. 60390

TUCSON, ARIZONA 85702 Oct. 20 1970

Sample Submitted by Mr. Fisher-Watt

SAMPLE MARKED	Gold ozs. per ton ore	X	Silver ozs. per ton ore	SAMPLE MARKED	Gold ozs. per ton ore	X	Silver ozs. per ton ore
Pad 1	0.252		2.35	Pad 15	1.134		0.90
2	0.111		1.75	16	Trace		<0.05
3	0.062		<0.10				
4	0.154		0.70				
5	0.114		0.45				
6	0.146		0.70				
7	.116		1.75				
8	.055		0.35				
9	.139		0.55				
10	.35		0.60				
11	.34		1.20				
12	.13		.75				
13	0.331		0.30				
14	.124		.40				

~~* Gold Figured $35.00 per oz. Troy~~

Charges $ 103.00 < less than

Very respectfully,

[illegible signature]

REGISTERED ASSAYER CERTIFICATE No. 11620 ... ARIZONA

1435 SOUTH 10TH AVENUE
TUCSON, ARIZONA 85713

Jacobs Assay Office

Registered Assayers

Since 1880

PHONE 622-0813

Certificate No. 60650

TUCSON, ARIZONA 85703 Nov. 4, 1980

Sample Submitted by Mr FISHER-WATT

SAMPLE MARKED	GOLD Ozs. per ton ore	GOLD Value per ton ore	SILVER Ozs. per ton ore	COPPER Per cent Wet Assay	LEAD Per cent Wet Assay	..... Per cent Wet Assay	..... Per cent Wet Assay
PORT-17	0.258		1.00				
18	0.146		0.30				
19	0.230		0.55				
20	0.105		0.50				
21	0.206		1.10				
22	0.098		0.55				
23	0.071		0.40				
24	0.158		0.50				
25	0.174		0.25				
26	0.085		0.20				
27	0.494		0.35				
28	0.081		0.55				

~~* Gold Figured $300.00 per oz. Troy~~

Charges $ 78.00

Very ~~respectfully~~,

1435 S. 10th AVE.

Jacobs Assay Office

Registered Assayers

PHONE 622-0813

Certificate No. 60704

TUCSON, ARIZONA 85713 Nov. 10 1980

Sample Submitted By Mr. FISHER-WATT

SAMPLE MARKED	GOLD Ozs. per ton ore	GOLD Value per ton ore *	SILVER Ozs. per ton ore	LEAD Per cent Wet Assay	COPPER Per cent Wet Assay	..... Per cent Wet Assay	..... Per cent Wet Assay
PORT -30	0.009	$	< 0.05				
-31	0.032		0.20				
32	0.142		0.80				
33	0.196		2.80				
34	0.144		0.80				
35	0.020		0.60				
36	0.122		1.35				
37	0.292		1.80				
38	0.444		1.40				
39	0.005		0.05				
40	0.021		0.10				
41	0.052		0.75				
42	0.167		0.85				
43	0.064		0.20				
44	0.117		0.60				
45	0.419		2.00				
46	0.027		0.50				
47	0.050		2.65				
48	0.198		1.20				
49	0.032		0.65				
50	0.015		0.30				
51	0.021		0.40				
52	0.043		0.70				
53	0.011		0.15				
Little ore body, < 54	0.317		1.40				
S.F.I. { 55	0.035		0.20				
S.F.I. { 56	0.052		0.65				
57	0.055		0.70				
58	0.041		0.25				
59	0.007		0.80				
62	0.577		2.95				

< LESS THAN

~~* Gold figured $100.00 per oz. Troy~~

Very respectfully,

Charges $201.50

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine PORTLAND Date March 3, 1944

District Minnesota-Weaver, Mohave Co. Engineer Elgin B. Holt

Subject: Gold Mine Survey

R E P O R T

OWNER: J. A. Potter, Kingman, Arizona.

AGENT: E. A. McVicar, Kingman, Arizona.

METALS: Gold with small amount of silver.

AREA: LOCATION: This property, consisting of 3 patented and 5 unpatented claims, is situated in Mohave County, Arizona, 50 miles northwest of Kingman and six miles east of the Colorado River. From Kingman, the property is reached by following U. S. Highway 93 north 28 miles to Pleasant Valley Junction; thence west along the Searchlight road for 10 miles; thence southwesterly about 12 miles to the mine.

HISTORICAL:

Property was discovered about 1920. From 1935 to 1940 it was worked under a lease and option arrangement by the Gold Standard Mines Corporation. During this period approximately 132,000 tons of ore were milled averaging $7.22 gold per ton, according to settlement sheets now on file in McVicar's office in Kingman. The said ore was treated in the Katherine cyanidation plant located 11 miles southeasterly from property, or about 16 miles over a very poor sandy road, over which the ore was hauled by trucks. The property was abandoned during 1940 by Gold Standard due mainly to the fact about that time this company secured control and started operating the Tyro mine, a much larger property and located only 7 miles from the Katherine mill.

GEOLOGY:

Per F. C. Schrader, 1909, "The country rock", of that general area, "consists of the Tertiary volcanic rocks, with rhyolite and green chlorite andesite most abundant."

ORE RESERVES:

During April, 1937, after the Gold Standard company had started work on the Portland mine, Mr. Clyde M. Becker, a very able geologist, reported on that property as follows:

"I estimated that approximately 700 feet of development work on these three ore bodies had proven 287,000 tons of ore of an average value of $6.64 (gold) per ton."

Referring to the cross-vein on the Portland claim, Becker stated: "On the little ore body an inclined shaft had been sunk 100 feet with ore of grade similar in type and values to the south tunnel ore body. A series of assays taken at 95 feet ran 0.18 to 0.44 ounces gold. All carry silver in the approximate ration of 5 to 1 by weight. No other mineral (metallics) is present."

MAIN VEIN:

The main vein, which strikes north to south, is a wide flat vein dipping about 35 degrees easterly. The deepest work on mine is about 100 feet vertically, reaching the permanent water level. The main vein mentioned is exposed on surface for around 1200 feet; but it is believed to extend 500 feet further to the south through a basin where the vein is covered by debris. This vein is wide, averaging 12 feet in thickness, but "bellies" out in places to 20 feet or more in width. The vein gangue is composed of quartz and calcite, with no deleterious metals present. Hence the ore is ideal for treatment by cyanidation, by which process around 97% of gold values should be recovered.

MINE WORKINGS:

The main workings of property consist of the following openings: 1. A 100-foot shaft sunk on the cross-vein, exposing the "Little Ore Body" mentioned by Becker. 2. The South Tunnel which develops the "South Tunnel Ore Body"; and 3. The North Tunnel, which develops the "North Tunnel Ore Body". Also at the bottom of the 100-foot shaft on the cross-vein a drift 100 feet in length has been run on vein, which is from 4 to 6 feet wide of good milling ore. It will be noted that this ore, per Becker, assays from 0.18 to 0.44 ounces gold per ton.

The South Tunnel is about 200 feet in length connecting with the "Big Stope" at back end, which is now partly caved; but ore faces in stope are accessible for sampling.

The North Tunnel starts as an open cut about 100 feet in length on the main vein, and continues south as a tunnel partly on vein and partly in the foot wall to a point where it connects with the "Big Stope" workings. Also there is a shaft 100 feet deep on vein near the mouth of the open cut at north end of property; also a 100-foot drift running south on vein from the bottom of the said 100-foot shaft and connects with a raise to the open cut above. All of these workings are open and accessible for sampling.

MINE SAMPLED BY OTHER ENGINEERS:

After the Portland mine was abandoned by Gold Standard, it was sampled by engineers representing the Continental Mining Company of New York and also by Mette and Hamron of Los Angeles. The average results of both of these samplings gave better than $7.00 gold per ton, according to records in McVicar's office, and which can be examined at any convenient time.

WATER:

Ample water for milling and domestic purposes could be secured from the Colorado River, six miles from property, by means of an application for a water right from the Arizona Water Commission.

MILLING PLANT:

Further work should be done on the Portland Mine in order to determine its ore reserves, average value of ore, and the capacity of a treatment plant that should be installed at a later time. As additional ore could be secured in quantity for such a plant from four or five other gold mines within a radius of 10 miles of Portland, it is believed that an operation could finally be developed that would result in supplying a mill of large capacity, say from 300 to 500 tons daily, with gold ore of goodly grade over a long period of years.

Elgin B. Holt

Elgin B. Holt,
Field Engineer.

March 9, 1944

MEMORANDUM

To: J. S. Coupal

From: Elgin B. Holt

Subject: Portland Gold Mine 23N, 21W

Suggest you call Broadgate's attention to this mine

Some time ago, you and Charlie stated that Bill Broadgate had a client who was in the market for a gold mine that would supply a 400-ton mill. Later on I sopke to yourselves about the Portland gold mine, located 50 miles northwest of Kingman.

Without mincing words, the Portland is by far the best gold mine I have ever examined in Arizona, excepting Goldroad, and it can be secured on reasonable terms.

E. A. McVicar, of Kingman, represents the owners of this property and any deal should be negotiated through him. He is a reliable business man of this community and can be depended upon in every way.

I am herewith inclosing my report on Portland, mainly compiled from authentic records in McVicar's office, but partly from my own investigations, as I have inspected it a number of times.

You will note that Portland was examined during 1937 by Clyde M. Becker, a geologist of high standing, now deceased. He estimated that the mine then contained 287,000 tons of ore averaging $6.64 gold per ton.

It seems that Becker was very modest in this estimate, as Gold Standard actually mined and milled 132,000 tons averaging $7.22 gold per ton, according to this company's own assays, used as a basis for figuring royalties to owners. It is a well-known fact that Gold Standard used an adequate safety factor in reporting assays. So I would say off-hand this 132,000 tons in all probabilities contained about $8.00 gold per ton, not counting

the silver content, which seems to run around one ounce per ton in Portland ores. By cyanidation, a goodly portion of the silver values would be recovered along with the gold. Possibly the recoverable silver should at least equal 50 cents per ton, an item not to be sneezed at.

You will also note that this mine, after its abandonment by Gold Standard, was thoroughly sampled by the Continental Mining Company of New York and also by Mette & Hamron of Los Angeles; results of both samplings averaging around $7.00 gold per ton.

The main Portland vein is wide, from 12 to 20 feet in thickness and crops for 1200 feet. I would say at least half of the ore mined by Gold Standard was quarried from the outcroppings of this huge vein. The managers of this company were chloriders, and not miners. They gutted the surface croppings of a half-score of mines surrounding the Katherine mill. They were not interested in the development of any mine in this or any other area.

Roughly I would estimate that if the Portland vein could be developed by sinking an inclined working shaft on vein and then blocked out by drifts on vein at 100-foot intervals, that each/block below the present workings would yield at least 100,000 tons of ore, estimated to run around $7.00 gold per ton, with a little silver. Furthermore, deducting the 132,000 tons mined by Gold Standard from the 287,000 tons originally reported by Becker, the Portland now has indicated about 155,000 tons, averaging about $7.00 gold per ton, although this ore is not blocked out by any means, and should be considered as probable ore only. In the bottom of the "Big Stope" the vein is still at least 12 feet wide, with values holding to around $7.00 gold per ton.

LAND	2612	160	418	0	
BLDGS ETC	715	160	5234	0	SERVICE CHARGE
PERSONAL PROPERTY	0	00	0	0	
TOTALS ▶	3327		5652	0	

TAX CODE	1979	1980	DIFFERENCE	PRIMARY TAX
00986	2402	7034	4632	51698
02000	13002	15126	2124	ADDITIONAL STATE AID
05011	18616	13966	-4650	00
06100	15813	14147	-1666	5% TAX REDUCTION
08150	4905	5111	206	00
				SECONDARY TAX
				3686
				SPECIAL DISTRICTS
				00
	54738	55384	646	TOTAL TAX DUE
				55384

ROLL NO	CO	BOOK	MAP	PARCEL
01949	08	307	37	045 0

CODE	PRIMARY COMB RT	SECONDARY COMB RT
00	9. 3331	. 9622

	1ST HALF PAID	2ND HALF PAID
	413	413

PENALTY	1ST HALF	2ND HALF
SERVICE CHARGE		

CLARK SAMUEL & LA VONNE &
POTTER JAMES A
% MOND G POTTER
% THE BIRD CAGE
6750 HAWAII KAI DR NO 1005
HONOLULU HI 91106

TAX ROLL NO	CO	BOOK	MAP	PARCEL
101974	08	307	43	001 9

AREA CODE	PRIMARY COMB RT	SECONDARY COMB RT
1500	9. 3331	. 9622

SEC 15 23 21 PAT CLAIMS; SUNSHINE; SUNSHINE #2 40.00AC M/L

PRIMARY	LIMITED VALUE	ASMT%	ASSESSED VALUE	EXEMPTION	1ST HALF PAID	2ND HALF PAID
LAND BLDGS ETC	800	160	128	0		
PERSONAL PROPERTY	0	00	0	0		
TOTALS ▶	800		128	0	660	660

SECONDARY	FULL CASH VALUE	ASMT%	ASSESSED VALUE	EXEMPTION	PENALTY	1ST HALF	2ND HALF
LAND	800	160	128	0			
BLDGS ETC	0	00	0	0	SERVICE CHARGE		
PERSONAL PROPERTY	0	00	0	0			
TOTALS ▶	800		128	0			

TAX CODE	1979	1980	DIFFERENCE	PRIMARY TAX
00986	60	161	101	1196
02000	325	345	20	ADDITIONAL STATE AID
05015	493	376	-117	00
06100	395	322	-73	5% TAX REDUCTION
08150	123	116	-07	00
				SECONDARY TAX
				124
				SPECIAL DISTRICTS
				00
	1396	1320	-76	TOTAL TAX DUE
				1320

BLDGS ETC	0	00	0	0	
PERSONAL PROPERTY	0	00	0	0	
TOTALS ▶	2000			320	

TAX CODE	1979	1980	DIFFERENCE	PRIMA
00986	150	401	251	
02000	814	860	46	ADDITIONA
05011	1164	794	-370	
06100	989	804	-185	5% TAX R
08150	307	291	-16	
				SECOND
				SPECIAL
				TOTAL
	3424	3150	-274	

TRANSAMERICA TITLE INS CO
% INT & INV CO
PO BOX 500
PHOENIX AZ 85001

CHLORIDE GATEWAY ACRES TR 6 LOT 55 SEC

PRIMARY	LIMITED VALUE	ASMT%	ASSESSED VALUE	EX
LAND BLDGS ETC	500	160	80	
PERSONAL PROPERTY	0	00	0	
TOTALS ▶	500		80	

SECONDARY	FULL CASH VALUE	ASMT%	ASSESSED VALUE	EX
LAND	500	160	80	
BLDGS ETC	0	00	0	
PERSONAL PROPERTY	0	00	0	
TOTALS ▶	500		80	

TAX CODE	1979	1980	DIFFERENCE	PRIMA
00986	37	101	64	
02000	203	215	12	ADDITIONA
05011	290	198	-92	
06100	246	201	-45	5% TAX R
08150	76	73	-03	
				SECOND
				SPECIAL
				TOTAL
	852	788	-64	

ROLL NO	CO	BOOK	MAP	PARCEL
01950	08	307	37	046 3

CODE	PRIMARY COMB RT	SECONDARY COMB RT
00	9. 3331	. 9622

	1ST HALF PAID	2ND HALF PAID
	413	413

PENALTY	1ST HALF	2ND HALF
SERVICE CHARGE		

< L 22 >

CLARK SAMUEL & LA VONNE &
POTTER JAMES A
% MOND G POTTER
% THE BIRD CAGE
6750 HAWAII KAI DR NO 1005
HONOLULU HI 91106

TAX ROLL NO	CO	BOOK	MAP	PARCEL
101975	08	307	43	002 2

AREA CODE	PRIMARY COMB RT	SECONDARY COMB RT
1500	9. 3331	. 9622

SEC 15 23 21 PAT CLAIMS; PORTLAND 20.00AC M/L UNDIV INT

PRIMARY	LIMITED VALUE	ASMT%	ASSESSED VALUE	EXEMPTION	1ST HALF PAID	2ND HALF PAID
LAND BLDGS ETC	400	160	64	0		
PERSONAL PROPERTY	0	00	0	0		
TOTALS ▶	400		64	0	329	329

SECONDARY	FULL CASH VALUE	ASMT%	ASSESSED VALUE	EXEMPTION	PENALTY	1ST HALF	2ND HALF
LAND	400	160	64	0			
BLDGS ETC	0	00	0	0	SERVICE CHARGE		
PERSONAL PROPERTY	0	00	0	0			
TOTALS ▶	400		64	0			

TAX CODE	1979	1980	DIFFERENCE	PRIMARY TAX
00986	30	80	50	596
02000	165	172	07	ADDITIONAL STATE AID
05015	248	188	-60	00
06100	199	160	-39	5% TAX REDUCTION
08150	62	58	-04	00
				SECONDARY TAX
				62
				SPECIAL DISTRICTS
				00
	704	658	-46	TOTAL TAX DUE
				658

ROLL NO	CO	BOOK	MAP	PARCEL
101951	08	307	37	047 6

CODE	PRIMARY COMB RT	SECONDARY COMB RT
500	9. 3331	. 9622

	1ST HALF PAID	2ND HALF PAID
	413	413

PENALTY	1ST HALF	2ND HALF
SERVICE CHARGE		

MAC EWEN WALTER
THOMPSON HELEN
% JOHN B MARRON ATTY
MAYER CTRL BLDG #504
PHOENIX AZ 85012

TAX ROLL NO	CO	BOOK	MAP	PARCEL
101976	08	307	45	001 5

AREA CODE	PRIMARY COMB RT	SECONDARY COMB RT
1100	9. 1888	. 6519

SEC 14 24 20 NE4 160AC

PRIMARY	LIMITED VALUE	ASMT%	ASSESSED VALUE	EXEMPTION	1ST HALF PAID	2ND HALF PAID
LAND BLDGS ETC	533	160	85	0		
PERSONAL PROPERTY	0	00	0	0		
TOTALS ▶	533		85	0	421	421

SECONDARY	FULL CASH VALUE	ASMT%	ASSESSED VALUE	EXEMPTION	PENALTY	1ST HALF	2ND HALF
LAND	582	160	93	0			
BLDGS ETC	0	00	0	0	SERVICE CHARGE		
PERSONAL PROPERTY	0	00	0	0			
TOTALS ▶	582		93	0			

TAX CODE	1979	1980	DIFFERENCE	PRIMARY TAX
00986	36	106	70	780
02000	198	230	32	ADDITIONAL STATE AID
05011	283	212	-71	00
06100	240	217	-23	5% TAX REDUCTION
08150	75	77	02	00
				SECONDARY TAX
				62
				SPECIAL DISTRICTS
				00

< L 23 >

SUGGS FAMILY TRUST
SUGGS ELLIS & DOROTHY TRUSTEES
5820 E ORANGE BLOSSOM LANE
PHOENIX AZ 85018

GATEWAY ACRES TR #6 LOT 56 SEC 1 24N 2

PRIMARY	LIMITED VALUE	ASMT%	ASSESSED VALUE	EX
LAND BLDGS ETC	100	160	16	
PERSONAL PROPERTY	0	00	0	
TOTALS ▶	100		16	

SECONDARY	FULL CASH VALUE	ASMT%	ASSESSED VALUE	EX
LAND	100	160	16	
BLDGS ETC	0	00	0	
PERSONAL PROPERTY	0	00	0	
TOTALS ▶	100		16	

TAX CODE	1979	1980	DIFFERENCE	PRIMA
00986	08	20	12	
02000	43	44	01	ADDITIONA
05011	60	40	-20	
06100	51	41	-10	5% TAX R
08150	16	15	-01	
				SECOND
				SPECIAL
				TOTAL
	178	160	-18	

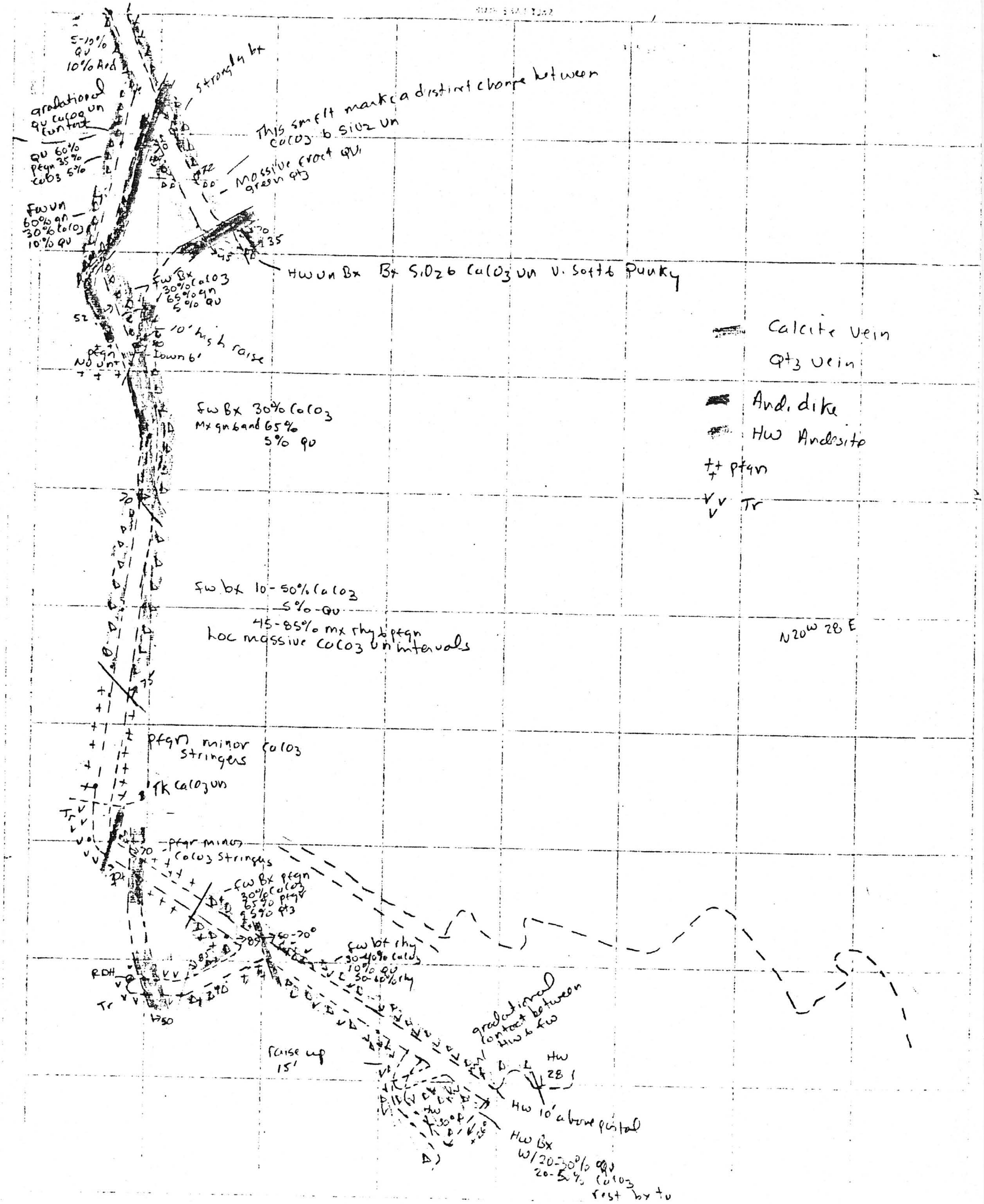
SUGGS FAMILY TRUST
SUGGS ELLIS & DOROTHY TRUSTEES
5820 E ORANGE BLOSSOM LANE
PHOENIX AZ 85018

GATEWAY ACRES TR #6 LOT 57 SEC 1 24N 2

PRIMARY	LIMITED VALUE	ASMT%	ASSESSED VALUE	EX
LAND BLDGS ETC	100	160	16	
PERSONAL PROPERTY	0	00	0	
TOTALS ▶	100		16	

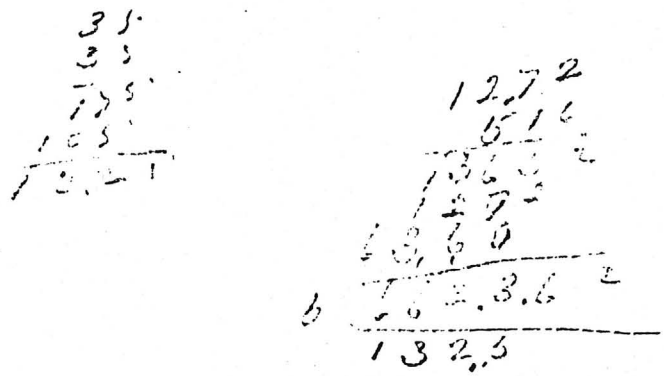
SECONDARY	FULL CASH VALUE	ASMT%	ASSESSED VALUE	EX
LAND	100	160	16	
BLDGS ETC	0	00	0	
PERSONAL PROPERTY	0	00	0	
TOTALS ▶	100		16	

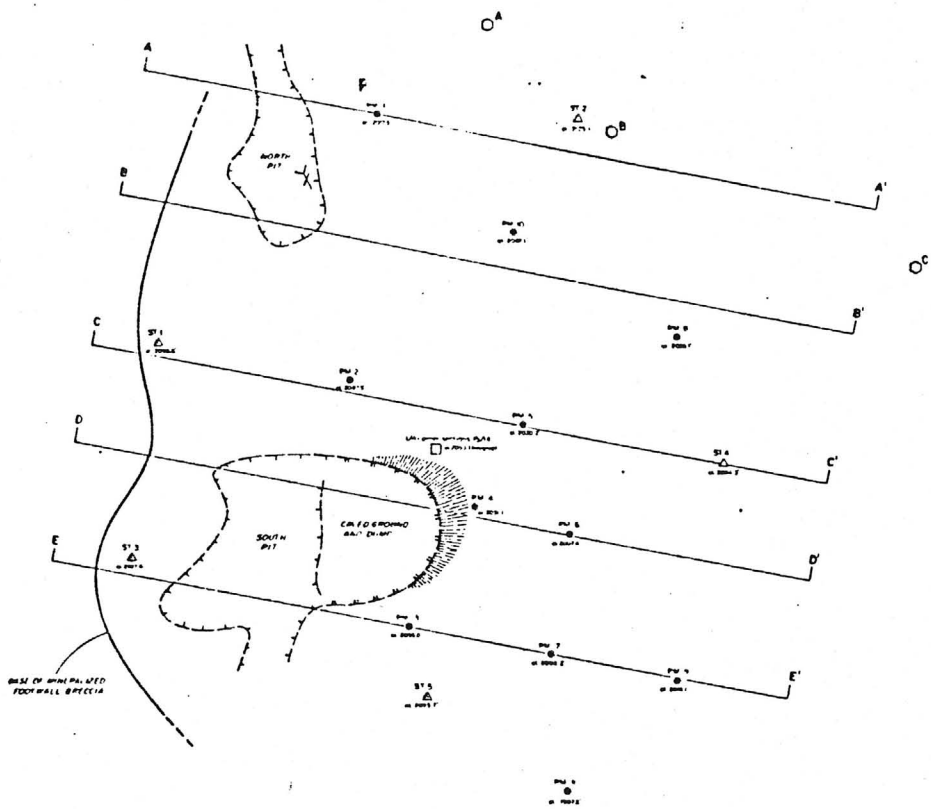
TAX CODE	1979	1980	DIFFERENCE	PRIMA
00986	08	20	12	
02000	43	44	01	ADDITIONA
05011	60	40	-20	
06100	51	41	-10	5% TAX RE
08150	16	15	-01	
				SECOND
				SPECIAL


5-10% QU
10% And
strongly bx
This smelt marks a distinct change between CaCO3 & SiO2 vn
gradational qu caco3 vn contact
QU 60%
ptgn 35%
CaCO3 5%
Massive cract QU green Qt3
Fw vn
60% gn
30% CaCO3
10% QU
Hw vn Bx Bx SiO2 & CaCO3 vn v. soft & punky
Fw Bx
30% CaCO3
65% gn
5% QU
10' high raise
ptgn
No vn
Down 6'
Calcite vein
Qt3 vein
And. dike
Hw Andesite
ptgn
Tr
fw Bx 30% CaCO3
Mx gn band 65%
5% QU
fw bx 10-50% CaCO3
5% - QU
45-85% mx rhy & ptgn
Loc massive CaCO3 vn intervals
N20W 28 E
ptgn minor CaCO3 stringers
TK CaCO3 vn
ptgn minor CaCO3 stringers
fw Bx ptgn
30% CaCO3
65% ptgn
5% Qt3
60-70°
fw bt rhy
30-40% CaCO3
10% QU
30-60% rhy
RDH
Tr
gradational contact between Hw & fw
raise up 15'
Hw
Hw 10' above portal
Hw Bx
w/ 20-30% QU
20-50% CaCO3
rest bx tu

PORTLAND MINES, INC. Report of ore shipped to Gold Standard mill, Aug.13 to Aug.25, 1935.

LOT	AUG.	TONS	PORTLAND ASSAY GOLD	PORTLAND ASSAY SILVER	GOLD STD ASSAY GOLD	GOLD STD ASSAY SILVER	UMPIRE ASSAY GOLD	UMPIRE ASSAY SILVER	AVERAGE VALUE IN DOLLARS.
24	13	34.35	0.354	0.48	0.353	1.05			13.17
25	14	71.95	0.313	1.00	0.260	0.84	0.305	1.10	12.72
26	15	35.55	0.308	1.09	0.267	0.74	0.280	——	
27	20	70.75	0.464	1.76	0.427	1.50			
28	21	65.60	0.450	1.00	0.387	1.19			
29	22	75.00	0.356	1.57	0.300	1.05			
30	23	67.65	0.237	1.33	0.240	0.96			
31	24	68.15	0.254	1.00	0.226	0.77			
32	25	27.20	0.403	1.42	0.373	1.36			





EXPLANATION

- ASARCO DRILL HOLE - PM SERIES
- TRIANGULATION STATION
- PROPOSED DRILL HOLE
- PROPOSED DRILL HOLE (FTG 6/7/79)

NORTH

PORTLAND PROJECT

DRILLING PROGRESS MAP

MOHAVE COUNTY, ARIZONA

SCALE 100'

TO ACCOMPANY SUPPL.
EXPL. AUTH. REQUEST
DATED 6-7-79
BY F.T. GRAYBEAL

No. 1

	CORES	
	AU.	AG.
0'	.10	1.28
	.18	1.06
	.03	1.03
	.03	0.90
	.03	0.87
25'	.03	0.95
	.02	0.70
	.05	0.57
	.02	1.36
	.03	1.59
50'	.05	1.60
	.02	1.14
	.03	1.02
	.07	0.71
	.13	0.78
75'	.36	0.79
	.03	0.34
	.09	0.56
	.05	0.21
	.03	0.03
100'	.30	0.75
	.24	1.12
	.09	0.91
	.05	0.80
	.02	0.24
125'	.01	0.00

No. 2

	CORES	
	AU.	AG.
0'	.10	0.83
	.05	2.60
	.05	1.45
	.05	0.83
	.02	0.47
25'	.03	0.36
	.12	0.88
	.03	1.12
	.05	1.11
	.01	0.72
50'	.02	0.38
	.04	0.76
	.03	0.71
	.03	0.77
	.23	0.84
75'	.06	0.50
	.09	0.85

No. 3

	CORES	
	AU.	AG.
0'	.09	0.3
	.11	0.4
	.40	0.7
	.31	0.4
	.09	0.1
25'	.05	0.2
	.07	0.3
	.05	0.3
	.24	0.3
	0.10	1.0
50'	.04	1.0
	.03	0.9

No. 4

0'	.12	
	.14	0.9
	.10	0.4
	.09	0.4
	.19	0.8
25'	.07	0.4
		.82
	.41	0.8
		.57
	.09	0.36
50'	.1	
	.05	0.2

PORTLAND MINE ASSAYS

	Au.
No. 350	.05
175	.12
170	.25
521	.02
522	.02
523	.01
524	.03
525	.02
1031	.30
1030	.67
1028	.02
1564	.34
1565	.11
1568	.17
1569	.14
1570	.19
1467	.13
1468	.00
1469	.06
1470	.03
1478	.12
1479	.11
1480	.24
1481	.17

NOTICE OF RELOCATION
(Lode)

NOTICE IS HEREBY GIVEN that the PORTLAND No. 3 Lode Mining Claim was relocated by ASARCO Incorporated, whose address is P.O.Box 5747, Tucson, Arizona 85703, on SEPT. 20th, 1978.

This claim is 1,500 feet in length along the vein or deposit of mineral-bearing rock in place and 600 feet in width (300 feet on either side of the center line of the claim), forming a claim in the shape of a parallelogram. The general course of the claim is EAST & WEST. This notice is posted at the NORTHWEST corner of the claim, which location monument is in Section 15, Township 23 N., Range 21 W., G&SRM.

The claim is situated in the Weaver Mining District, the location notice is posted approximately 660'N. & 1100'W. of section corners common to 14-15-22 & 23, and falls within the SE¼ of Section(s) 15, Township 23N, Range 21W, G&SRM, Mohave County, Arizona.

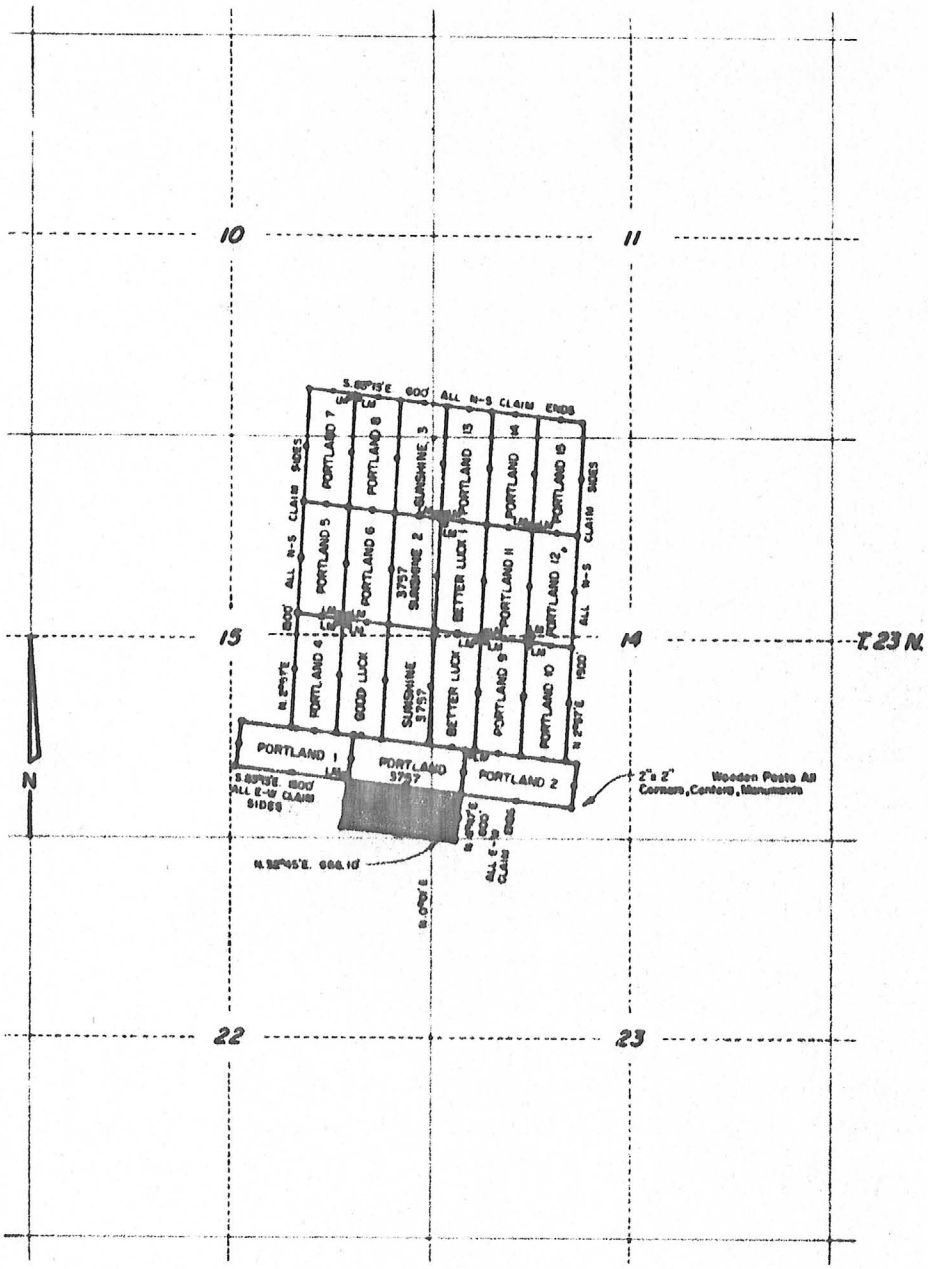
This is intended as an original location of the PORTLAND No. 3 Lode Mining Claim, covering all of the same ground included in the PORTLAND No. 3 Lode Mining Claim, the Notice of Location of which is recorded in the Official Records, Book 30, Page(s) 68, of Mohave County, Arizona. All of the requirements of law relating to the location of mining claims will be complied with by this location, including the performance of new location work, but by this location, the locator does not intend to and does not waive or abandon any rights it has under and by virtue of the location of the said PORTLAND No. 3 Lode Mining Claim.

ASARCO Incorporated,

R. B. Crist
Agent

William E. Johnson
Witness

BOOK 496 PAGE 87



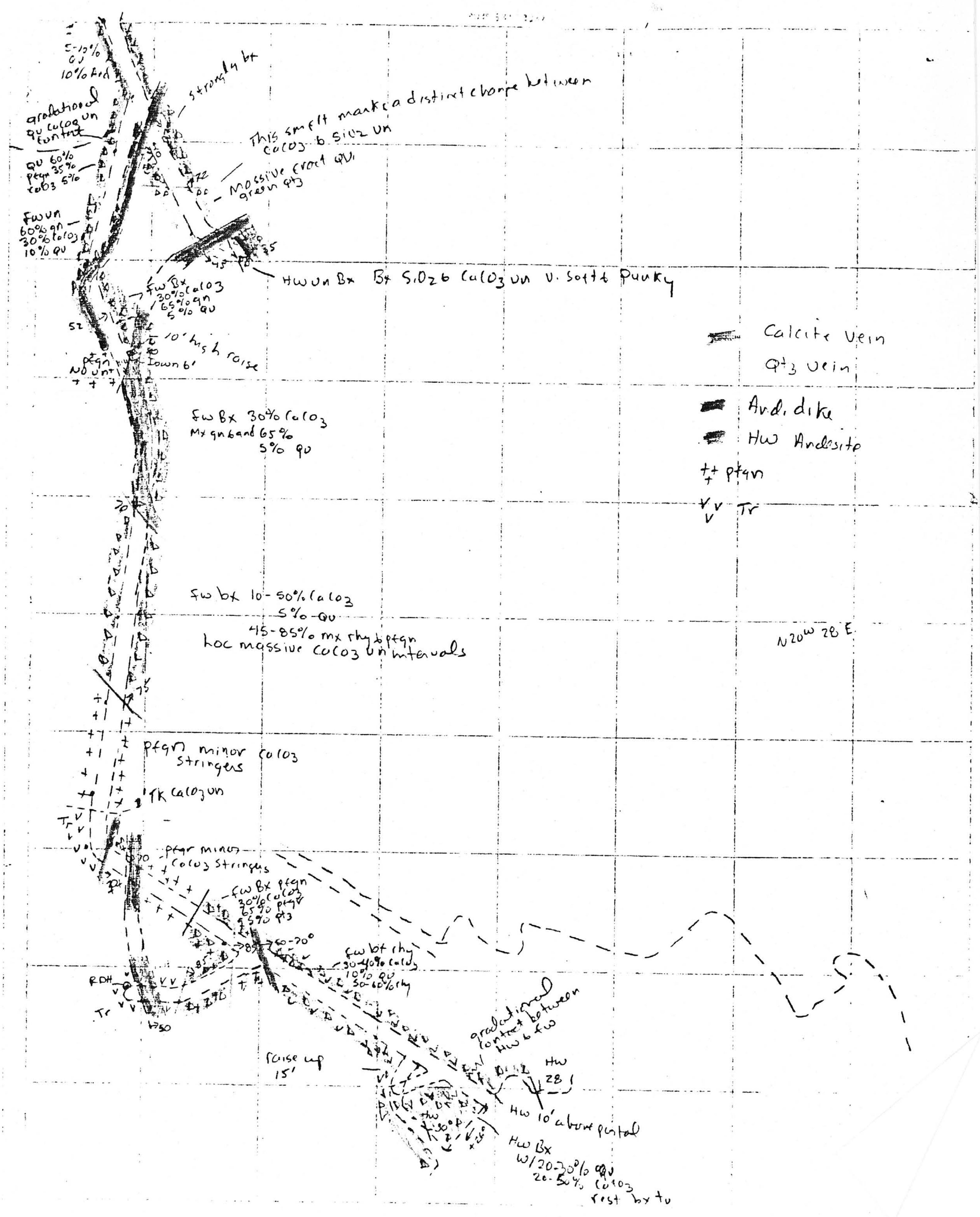
LODE CLAIM	ORIG. LOCATOR	PRES. LOCATOR	ORIG. LOC DATE	RELOC / LOC. DATE
Portland 1, 2, 3 Good Luck Better Luck Better Luck 1 Sunshine 3 Portland 4-15	S.L. Clark 3955 Maple Tree Drive Anaheim, Ca. 92807	ASARCO Incorporated Box 5747 Tucson, Az 85703	all	Sept. 20, 1978

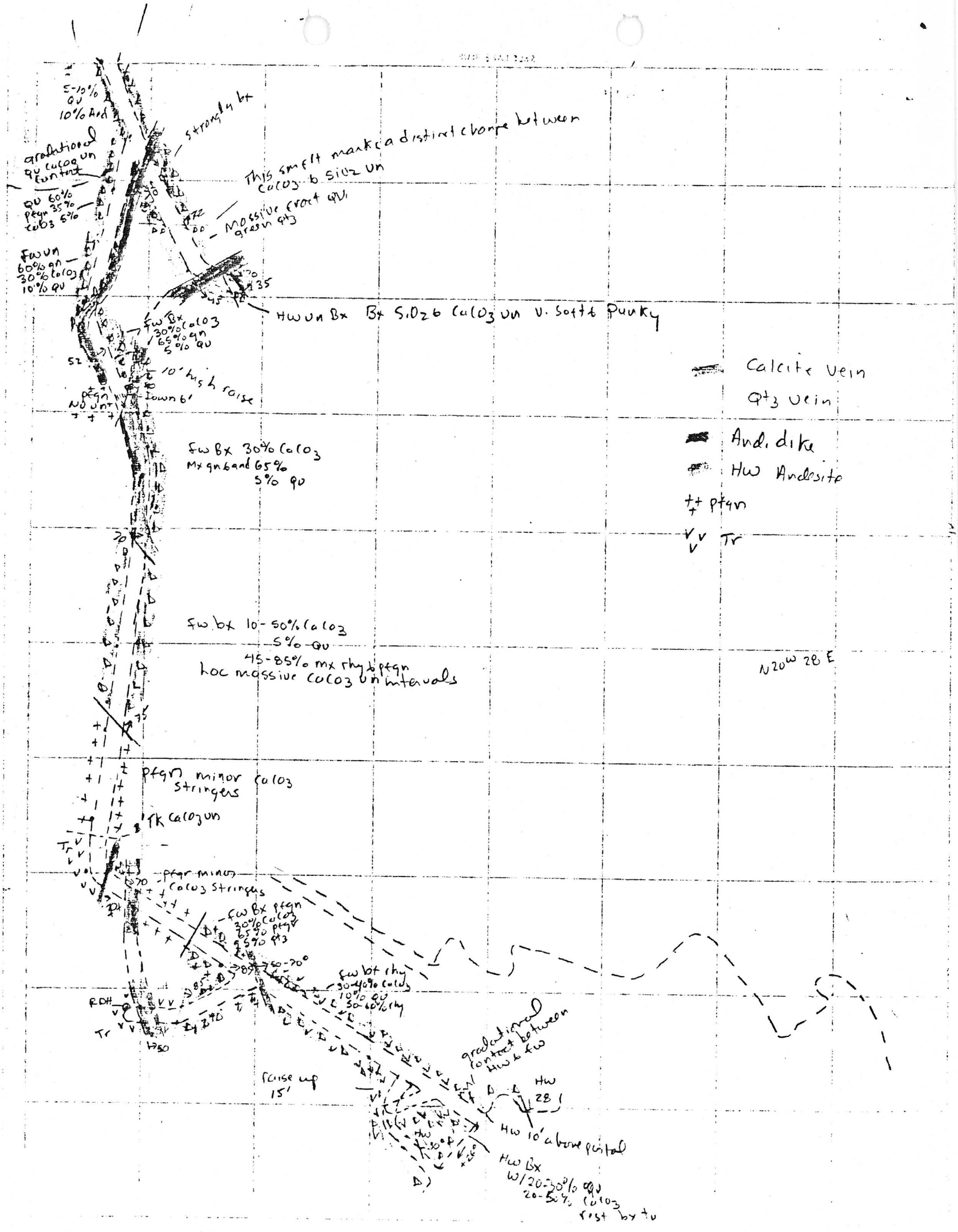
ASARCO Incorporated
Box 5747
Tucson, Az 85703

LODE CLAIMS
IN
MOHAVE COUNTY
ASARCO Incorporated
1150 NORTH 7TH AVENUE
TUCSON, ARIZONA 85703

1" = 2000'

BOOK 496 PAGE 88


5-10% QV
10% And
gradational QV CaCO3 Vn contact
QV 60%
Ptgn 35%
CaCO3 5%
FW Vn
60% gn
30% CaCO3
10% QV
strongly bx
This smelt mark a distinct change between CaCO3 & SiO2 Vn
Massive cryst QV green Qtz
HW Vn Bx Bx SiO2 & CaCO3 Vn V. soft & punky
FW Bx
30% CaCO3
65% gn
5% QV
10' high raise
down 6'
Ptgn
No Vn
FW Bx 30% CaCO3
Mx gn band 65%
5% QV
FW bx 10-50% CaCO3
5% QV
45-85% mx rhy & ptgn
Loc massive CaCO3 Vn intervals
N20W 28 E
Calcite Vein
Qtz Vein
And. dike
HW Andesite
Ptgn
Tr
Ptgn minor CaCO3 stringers
Tk CaCO3 Vn
Ptgn minor CaCO3 stringers
FW Bx Ptgn
30% CaCO3
65% Ptgn
5% Qtz
60-70°
FW bt rhy
30-40% CaCO3
10% QV
30-60% rhy
RDH
Tr
raise up 15'
gradational contact between HW & FW
HW 28
HW 10' above portal
HW Bx
W/20-30% QV
20-50% CaCO3
rest bx tu


strongly bt
This smelt marks a distinct change between
CaCO3 & SiO2 vn
Massive cract QV
green qtz
Hw vn Bx Bx SiO2 & CaCO3 vn v. soft & punky
10' high raise
fw Bx 30% CaCO3
Mx gn band 65%
5% qu
fw bx 10-50% CaCO3
5% qu
45-85% mx rhy & pfgn
Loc massive CaCO3 vn intervals
pfgn minor CaCO3 stringers
Tk CaCO3 vn
raise up 15'
gradational contact between Hw & fw
Hw 10' above portal
Hw Bx
w/ 20-30% qu
20-50% CaCO3
Calcite vein
Qtz vein
And. dike
Hw Andesite
pfgn
Tr
N20W 28 E

Ag	Cu	Pb	Zn	Gross value / Ton	Net value 1/Ton	Freight	Smelter	Insol	Fe	S	CaO	90% [illegible]
242	412	8859	5564	20.21	16.96	598.52	574.03	46.4	15.4	19.3	.7	
235	287	7799	7053	17.80	14.55	300.42	533.94	52.8	12.7	14.2	.8	
159	335	4431	7911	15.34	12.09	305.37	395.77	53.8	14.9	14.1	.5	8119.51 ✓
232	586	6858	6619	15.99	12.24	384.65	336.13	52.0	14.4	17.3	.5	.1342.42 ✓
223	543	5900	6026	13.23	9.98	389.92	182.53	53.0	14.0	17.0	.3	
699.262	1107	15617	6352	2290.66		397.67	1244.86 / 885.33					1071.33 ✓
342.83	585	7433	7031	1595.43		270.12	642.17					501.94 ✓
196.02	409	4319	5294	14.72	11.48	394.31	588.04	57.7	13.5	15.1	.8	809.15 ✓
2330	4276	41015	52642				4260.92					
							4192.02					6423.

186.30
886.02
224.79
231.39

Ag	Cu	Pb	Zn	Ins	SiO2	Fe	CaO	S	[illegible]	[illegible]	Sb	Gross	Net Smelter
98.7	481	3702	3794	54.4	41.0	13.2	2.1	16.2	7.1	1.47	.45	12.49	228.0
213.2	6194	5257	5544	56.6	41.0	10.9	.1	15.0	2.5	.77	.14	13.54	5.75
77.5	98	2844	3341	51.4	40.9	16.6	3.7	14.5	2.9	1.30	.35	10.43	120.37
120.6	280	2218	9508			8.2							31.10
389.5	1049	9728	8077			15.7							738.81
235.3	605	2702	10352			14.5							754.24
196.4	417	5127	9953			12.1							550.68
107.0	225	2205	4264										45.49
98.2	289	3194	5994			11.1							175.15
79.0	246	2562	2405										48.39
344.5	716	11429	8377			16.3							551.60
258.8	422	8907	9584			13.7						13.67	534.38
112.8	180	3366	3610			11.3						5.01	91.23
85.9	100	2317	3698			12.2						2.62	154.61
107.9	480	3747	4342	54.6		11.9	4.4	13.5				12.06	7.38
197.6	429	6893	4701	51.2		14.1	6	16.6				13.57	249.13
238.0	543	11546	9771			12.4							426.37
390.0	510	10320	9780			11.4							177.98
268.5	520	8957	9974			15.8							920.37

3

Notice of Mining Location

CRANE & CO., TOPEKA

LODE CLAIM

TO ALL WHOM IT MAY CONCERN:

This mining Claim, the name of which is the PORTLAND No. 3 Mining Claim, situate on lands belonging to the United States of America, and in which there are valuable mineral deposits, was entered upon and located for the purpose of exploration and purchase by ---PORTLAND MINES INCORPORATED -- AN ARIZONA CORPORATION,

(Locator must insert either "a citizen of the United States" or "who has declared his intention to become a citizen of the United States.") the undersigned, on the 4th day of April, 19 39.

The length of this claim is FIFTEEN/(1500') HUNDRED & NO/100 feet, and it claims SEVEN / (750') Hundred Fifty & No/100 feet in a Northwesterly direction and 750 feet in a Southeasterly direction from the center of the discovery shaft, at which this notice is posted, lengthwise of the claim, together with / (300') THREE HUNDRED & No/100 feet in width of the surface grounds, on each side of the center of said claim. The general course of the lode deposit and premises is from the Northwest to the Southeast.

The claim is situated and located in the Minnesota Mining District, in Mohave County, in the State of Arizona, about 1800 feet in a Southerly direction from Main workings of the Portland Mine: The northerly side line of this claim is identical with the Southerly side line of the PORTLAND, patented lode claim.

The surface boundaries of the claim are marked upon the ground as follows: Beginning at

at a point in a direction feet from the discovery shaft (at which this notice is posted), being in the center of the end line of said claim; thence feet to a , being the corner of said claim; thence feet to a being at the corner of said claim; thence feet to a at the center of the end of said claim; thence feet to a , being at the corner of said claim; thence feet to a at the corner of said claim; thence feet to the place of beginning.

Dated and posted on the ground, this 4th day of April, 1939.

PORTLAND MINES INCORPORATED

By E. ... LeVeur

Agent

WITNESS

J. ... Potter

Filed and recorded at request of E. ... LeVeur this 10th day of April, 19 39, at 4:40 o'clock P. M., in Book 3 U at Page 60.

Mary E. Carrow

County Recorder.

No. 15338

By M. J. James

Deputy Recorder.