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A

GEOLOGIC EVALUATION REPORT

on

STATE PROSPECTING PERMIT #78097

Sec. 30, T. 18 N., R. 14 W.

in

Mohave County, Arizona

by

Richard E. Mieritz
Mining Consultant
Phoenix, Arizona

February 25, 1982

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Included Exhibits:

- Map of Underground Workings
- Sample Schedule
- Assay Certificate
- Map No. 1 - Geological Map
- Map No. 2 - Property Map
- Map No. 3 - Surface Map

INTRODUCTION:

At the verbal request of and authorization by Dr. Mel Alexander, La Mirada, California and Cashion, Arizona, the writer completed a geological examination on February 17, 20 and 21, 1982 of the Silverado area - State Prospecting Permit No. 78097 - encompassing 430 acres in Section 30, T. 18 N., R. 14 W., G. & S. R. B. & M. in Mohave County, Arizona.

This report is based on the above personal field examination, on the writer's geologic knowledge and experience of the area and on factual data as revealed by the examination and the taking of desired samples.

PROPERTY, LOCATION and ACCESSIBILITY:

State Prospecting Permit No. 78097 contains 430 acres of land in Section 30, T. 18 N., R. 14 W., in Mohave County and described as the:

NE/4 Section 30	160 acres
E/2NW/4 Section 30	80 acres
E/2SW/4 Section 30	80 acres
Lot #2 (NW/4) 36.56)	
Lot #3 (SW/4) 36.46)	109.67 acres
Lot #4 (SW/4) 36.65)	
Total	<u>429.67 acres</u>

The property also includes 15 Lode Mining Claims (one patented and 14 unpatented). These are identified as Hibernia (patented), Hibernia #1 through #10 and Silverado #1 through #4. (See Claim Map * - Map No. 2.) However, this Report covers only the State Prospecting Permit area.

The property is approximately 16 airline miles northwest of Wikieup, a small community on U. S. Highway 93 between Wickenburg and Kingman - approximately 75 miles northwest of Wickenburg, Arizona.

To travel to the property, start at the Wikieup Texaco Service Station, thence northerly on U. S. 93 (towards Kingman) for 14.9 miles to the Cane Springs bridge (between mileposts 109 and 108). At this point, turn left onto the Cane Springs gravel road which leads westerly. Continued westward travel on the "main" road for 10.4 miles will bring one to the vertical shaft (See Map No. 2). Although this road is "washed" to a degree the last three miles, travel is possible by passenger, two wheel drive automobile. When wet, it could be a bit muddy and slick in portions. The trip requires about 40 minutes. The last three miles should be graded.

FACILITIES:

The property is barren of facilities - no water, no gas, no electricity.

HISTORY, DEVELOPMENT and PRODUCTION:

Reliable factual data with reference to the titled subject is somewhat vague except for the fact that in the late 1800's one shipment of oxide silver ore varying from one hundred to several hundred ounces per ton was shipped to Swansea, Wales and netted the shippers \$125,000.00. The Hibernia claim was patented in 1873. The shipment no doubt came from this claim, approximately one mile north of the vertical shaft.

In December 1968, the B.L.M. deeded all of Section 30 except Lot #1 (NW/4NW/4) to the State of Arizona with surface and mineral rights. Prior to that action, lode claims under the Federal law had been staked, the last being in year 1964.

A vertical shaft (See Map No. 2) had been sunk - reportedly to 68 feet. Subsequently, it is reported that the shaft was further sunk to 110 feet with a 400 foot (+) drift - to the southwest (according to the included Underground Sketch). The writer questions the "Sketch" because the assumed mineralized structure on which the shaft was sunk has a general strike of N.5°E./S.5°W. which is measurable at the shaft collar (See Map No. 3).

A four legged "A" type frame over the shaft appears to be sound and in good shape. The vertical wood head frame over the shaft has "fallen into" the shaft at the collar. Shaft sets from the collar and below the collar have also fallen into the shaft and "bridged" the shaft at about 37 feet (measured by the writer) below the shaft collar. The writer suspects the shaft timber sets below a 40 or 42 foot depth could be intact if same were installed. The surface alluvium around the collar has caved to about five feet in depth at which point the shaft is then in rock.

A former operator of the property, in a haphazard fashion, attempted an "open cut" method of mining southeast of the shaft to work on a 15 foot wide potentially mineralized structure. At this same location, is a short Adit, the floor of which is approximately 12 feet below the surface but above the floor of the pit. A similar open cut attempt was made southeast of this area over the ridge on the south slope. (See Map No. 3.)

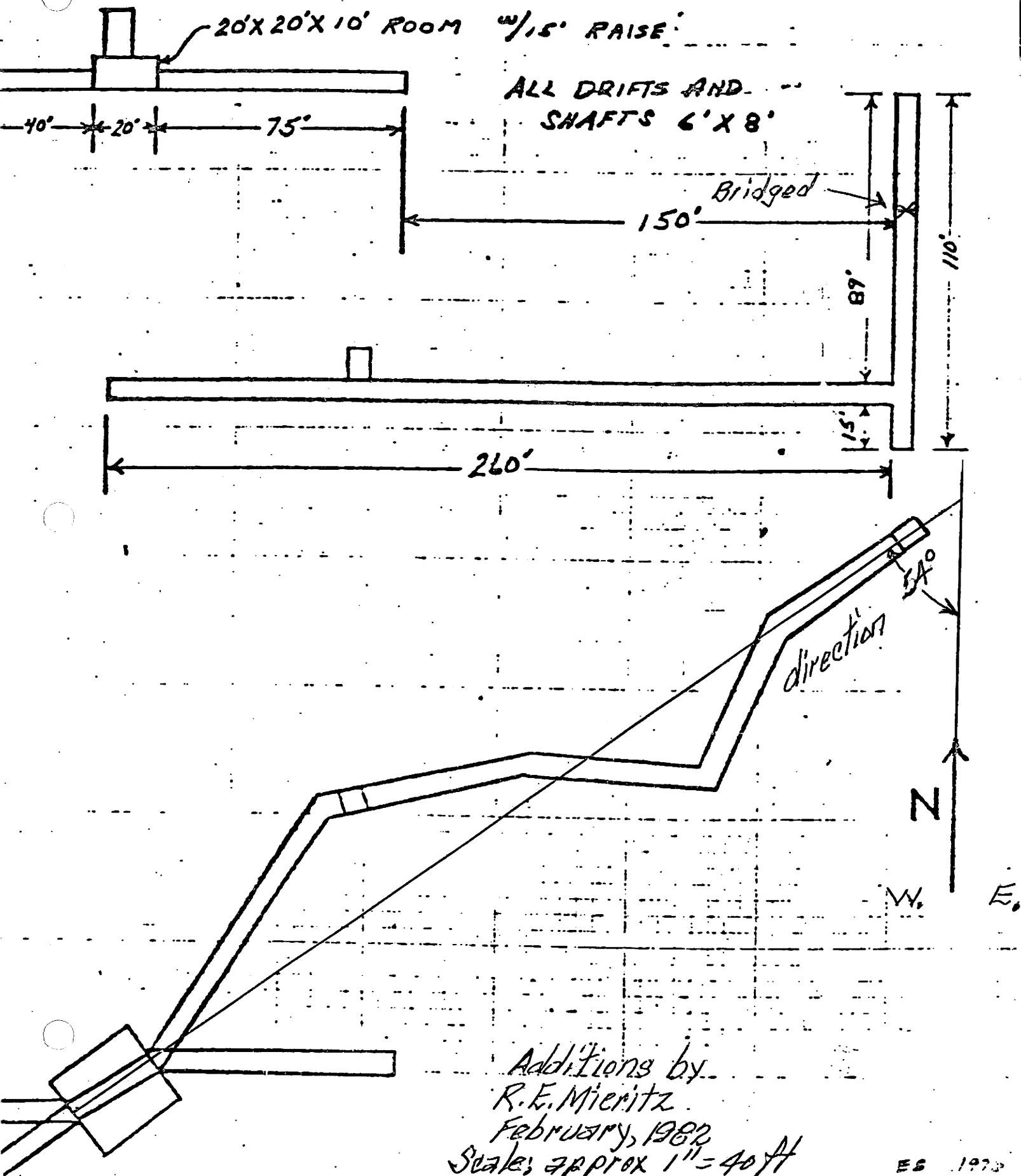
AREA GEOLOGY:

The Silverado area hosts large areas of fresh to altered granite, fresh to altered diorite, fresh to altered granite-gneiss, some schist and an occasional andesite dike. The granite-gneiss and diorite phases contain pegmatite dikes of varying shapes and sizes and contain the usual bull quartz, feldspars and micas common to the forty mile wide pegmatite zone paralleling a line between Morristown and Kingman.

SILVERADO AREA MINERALIZATION:

High grade silver chlorides were produced from the Hibernia claim before the turn of the century. The Hibernia mine is approximately

SILVERADO ?
UNDERGROUND SKETCH



one mile north of the workings in the Silverado area.

Early reports on the Silverado likened the quartz occurrences here to those of the Hibernia, consequently some "prospecting" has been done.

The present workings include a 110 (?) foot vertical shaft (collar caved and shaft "bridged over" at 37 feet), two adits, the portal of one completely caved, the other, the portal almost completely closed and muck filled about 12 feet in, and considerable haphazard surface bulldozing which leaves much to be desired. (See Map No. 3.)

This work concentrated on the typical white, bull quartz outcropping in the area. This quartz, massive, dense and hard for the most part, is the quartz of the pegmatite dikes - But - it lacks the feldspars and mica - thus not a pegmatite.

Injected into this quartz, however, is a "later" quartz which is sugary, crystalline, glassy, colorless to pinkish and grayish-brown. It occurs as blobs, globs, fracture and void space filling veinlets, etc. - more or less after a breccia texture. Contained within this quartz one can find on occasion specks of pyrite, chalcopyrite, galena (?), sphalerite (?), copper oxides (malachite and chrysocolla) and perhaps some silver chlorides (oxides, chlorides, bromides) of the yellow to green varieties. These metal occurrences are quite spotty and therefore, in the opinion of the writer, the overall metal content would be relatively "weak".

It is evident from observing Map No. 3 - Surface Map - that the quartz occurrences are of irregular shape, width, direction and tend to "end" abruptly or just "feather out" to nothing. This horizontal exhibition of the variable physical characteristics could well portray what could be expected at depth, viz, the same type of variance in width, direction, metal content, etc.

SAMPLING:

Precious metal value contents are best determined by assay of a sample. Unlike base metal values, the precious metals cannot usually be detected by visual examination. To this end, the writer has taken 17 samples of the quartz zone, of the highly altered rock adjacent to the quartz occurrence or representing a fault or fracture structure, or in other words, at places where the writer suspects possible precious metals mineralization.

The locations of the samples taken are shown on Map No. 3. Sample descriptions and precious metal content - ounces per ton - are tabulated on the included Sample Schedule.

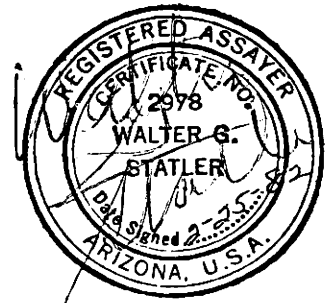
The silver content (ounces per ton) of the samples taken has been put on Map No. 3 in red ink, not only for convenience, but more so for correlation of the value with the mapped geology. It can be seen that the silver mineralization is, for the most part, very low in content. Only three samples exceeded a one ounce per ton value.

SAMPLE SCHEDULE
 SILVERADO AREA - Sec. 30, T. 18 N., R. 14 W.
 Mohave County, Arizona

Sample Number	Sample Description	Ounces per Ton	
		Gold	Silver
2433	2.0 ft chip across quartz zone exposed in Pit. Wall strikes N. 35° W., brown FeO, Mn and some altered granite.	Nil	0.70
2434	2.2 ft chip across same zone but west of #2433, quartz is massive but broken, Heavy FeO in spots. (brown).	Nil	0.62
2435	5.0 ft chip across mixture of altered granite, purple rhyolite(?), some quartz veinlets with heavy yellow brown FeO.	Tr.	Tr.
2436	3.0 ft. across very massive white quartz (bull type) with heavy yellow brown FeO and some green silver (?) chloride.	Nil	0.30
2437	3.0 ft across massive white quartz similar to 2436 with heavy yellow brown FeO, some malachite (CuO _x), some argentite (AgS) on west wall.	Nil	6.66
2438	5.0 ft across quartz with some FeO and Mn.	Nil	0.10
2439	3.5 ft across massive white quartz with red FeO exposed the western 2 feet of the sample.	Tr.	0.18
2440	2.5 ft across massive white quartz for 1.5 feet and 1.0 feet granite and quartz to a fracture on the east.	0.006	0.12
2441	8.0 ft chip across white quartz outcrop with some brown FeO.	Tr.	0.22
2442	7.0 ft chip across milky white quartz outcrop with some brown FeO and some copper oxide (Malachite) on fractures.	Nil	2.04
2443	2.0 ft across clay rich gouge zone in granite, whitish with some FeO staining.	Nil	0.10
2444	5.0 ft chip across altered exposure in road cut containing some quartz and yellow brown FeO.	Tr.	0.70
2445	5.0 ft chip across altered granite in road cut , like #2444 but more quartz and veinlets of FeO.	Tr.	0.24
2446	10.0 ft. across quartz exposure where quartz was brecciated and recemented in places with moderate FeO.	Tr.	0.12
2447	3.5 ft. across brecciated quartz vein containing moderate FeO, copper oxide, specks of pyrite, chalcopyrite and perhaps some sphalerite (?).	Tr.	0.30
2448	3.6 ft. across same zone on a lower bench in the southern Pit area. Character of sample much the same as #2447 but no sulphides.	Nil	0.36
2449	1.6 ft. across back of partially caved Adit in northern Pit area about 5 feet inside the portal. Quartz zone with heavy FeO.	Nil	1.08

IRON KING ASSAY OFFICE
ASSAY CERTIFICATE

BOX 247 - PHONE 632-7410
HUMBOLDT, ARIZONA 86329



ASSAY MADE FOR
Richard Mieritz
2940 N. Casa Tomas
Phoenix, Az. 85016

Feb. 25, 1982

	SAMPLE DESCRIPTION	oz/TON	oz/TON			
		Au	Ag			
2-22-1	2433	Ni1	0.70			
-2	2434	Ni1	0.62			
-3	2435	Tr	Tr			
-4	2436	Ni1	0.30			
-5	2437	Ni1	6.66			
-6	2438	Ni1	0.10			
-7	2439	Tr	0.18			
-8	2440	0.006	0.12			
-9	2441	Tr	0.22			
-10	2442	Ni1	2.04			
-11	2443	Ni1	0.10			
-12	2444	Tr	0.70			
-13	2445	Tr	0.24			
-14	2446	Tr	0.12			
-15	2447	Tr	0.30			
-16	2448	Ni1	0.36			
-17	2449	Ni1	1.04			

CHARGES \$ 174.25

ASSAYER _____

A study of the silver results and their respective locations within the area prospected, mapped and sampled indicates also that some "hot spots" do occur, but this situation is very localized, very small in volume and very wide spaced. Even the "hot spots" are not ore.

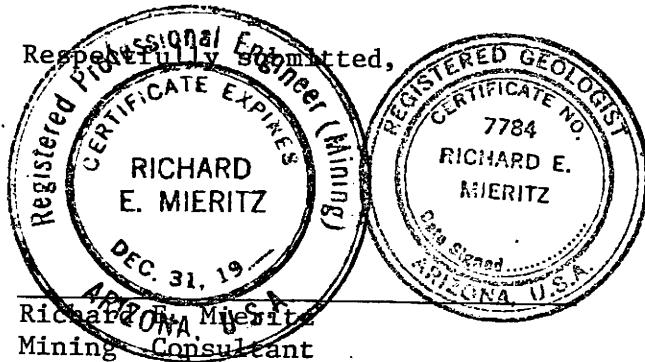
The writer opines that similar conditions of very low silver contents, except for very local "hot spots" of small tonnages, could prevail depth-wise.

The silver mineralization present within the area here considered is confined to the quartz structures with a slight "seepage" into the altered wall rock except where the altered wall rock is gouge.

CONCLUSIONS:

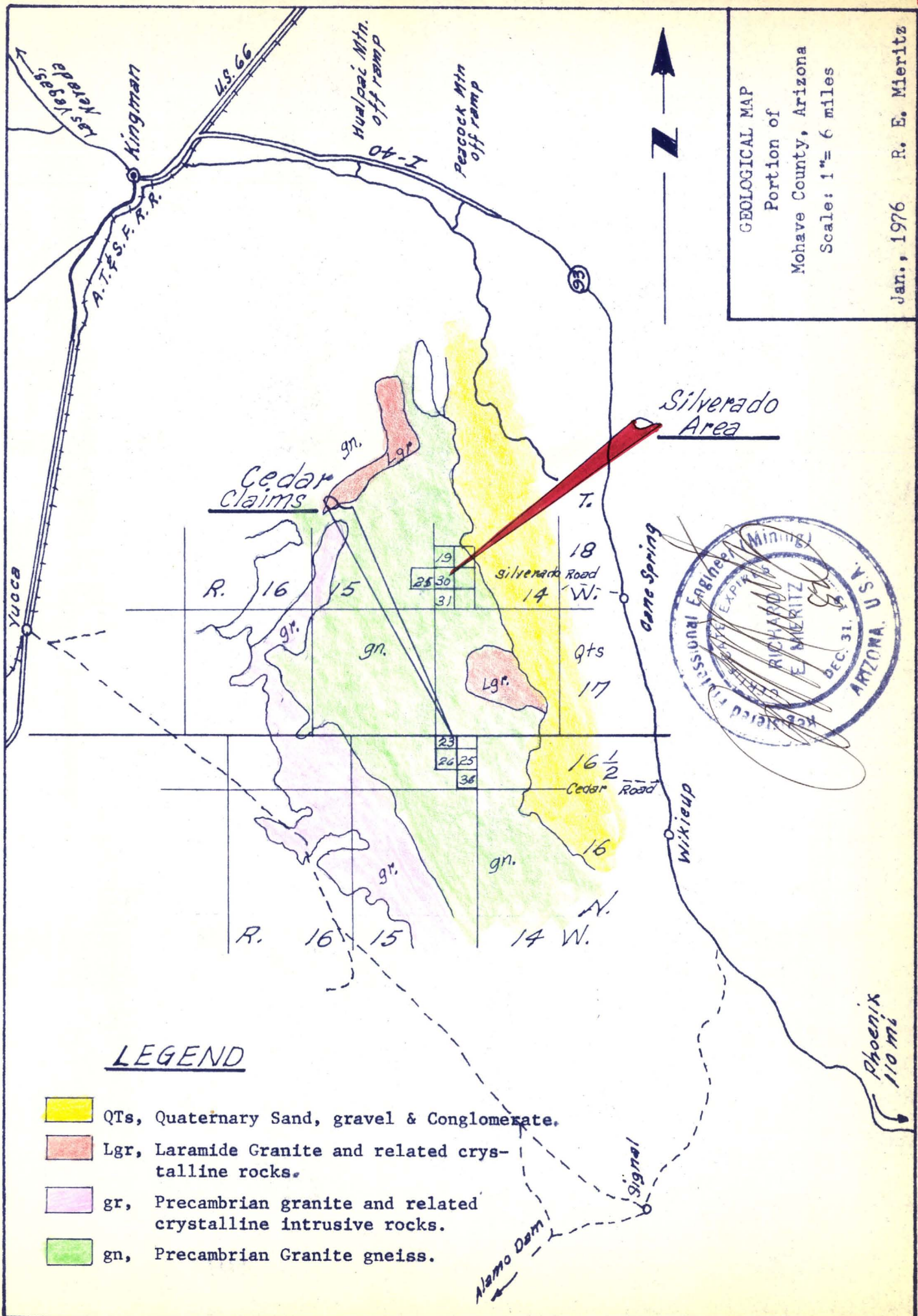
Based on the writer's geologic knowledge, experience, his personal examination of the property and his taking of the samples herein reported on, the writer opines that:

- (1) the area examined and tested to a degree by the writer does not hold promise of strong silver mineralization to approach values which could be mined,
- (2) any monetary funds expended could well be wasteful, and
- (3) no further funds should be expended on the property either for exploration, assessment expenses or rental fees.



February 25, 1982

REM/c



GEOLOGICAL MAP
 Portion of
 Mohave County, Arizona
 Scale: 1" = 6 miles

Jan., 1976 R. E. Mieritz

Map No. 1

Silverado Area

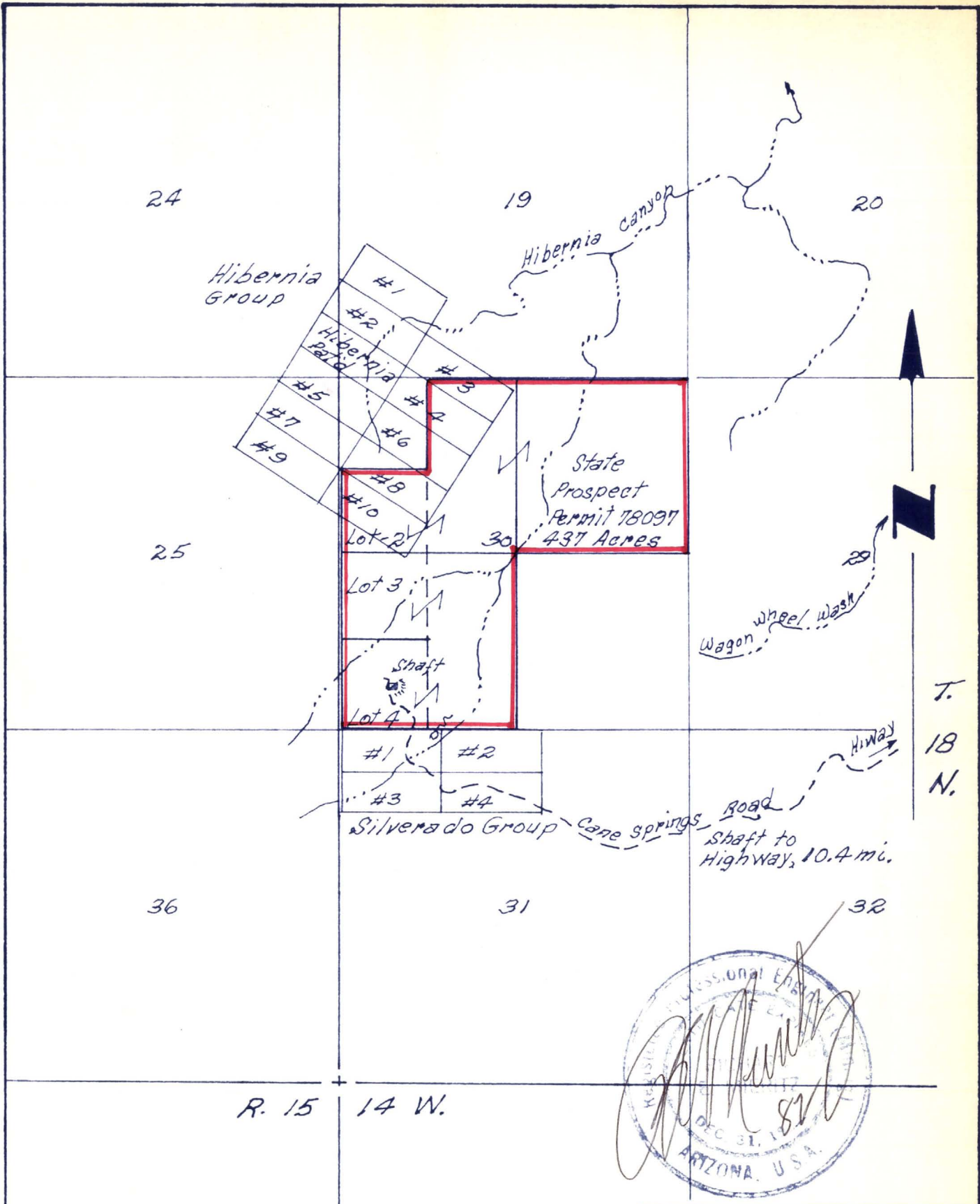
Cedar Claims



LEGEND

- Qts, Quaternary Sand, gravel & Conglomerate.
- Lgr, Laramide Granite and related crystalline rocks.
- gr, Precambrian granite and related crystalline intrusive rocks.
- gn, Precambrian Granite gneiss.

Phoenix
110 mi











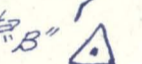

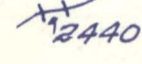
PROPERTY MAP
 SILVERADO AREA
 Mohave County, Arizona
 SCALE: 1" = 2000 Ft.

Feb., 1982 R. E. Mieritz

MAP N^o 2



LEGEND

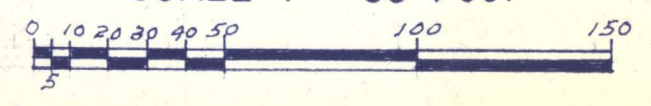
-  Quartz structures, veins, blobs, etc.
-  Gouge.
-  Granite-fresh to altered.
-  Diorite-fresh to altered.
-  Fault.
-  Toe of bench and/or road.
-  Crest of bench and/or road.
-  shaft.
-  Adit.
-  Survey Station - Brunton and Range Finder Survey.
-  Sample location & number.



**SURFACE MAP
SILVERADO WORKINGS**

Section 30, T. 18N., R. 14 W.

SCALE: 1" = 50 Feet



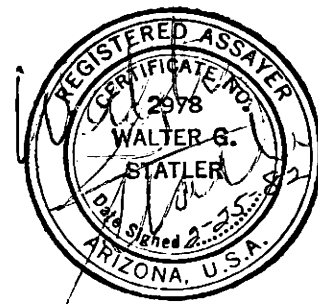
Feb., 1982

R. E. Mieritz

MAP No 3

IRON KING ASSAY OFFICE ASSAY CERTIFICATE

BOX 247 — PHONE 632-7410
HUMBOLDT, ARIZONA 86329



ASSAY
MADE
FOR

Richard Mieritz
2940 N. Casa Tomas
Phoenix, Az. 85016

Feb. 25, 1982

SAMPLE DESCRIPTION		oz/ton Au	oz/ton Ag		
2-22-1	2433	Nil	0.70		
-2	2434	Nil	0.62		
-3	2435	Tr	Tr		
-4	2436	Nil	0.30		
-5	2437	Nil	6.66		
-6	2438	Nil	0.10		
-7	2439	Tr	0.18		
-8	2440	0.006	0.12		
-9	2441	Tr	0.22		
-10	2442	Nil	2.04		
-11	2443	Nil	0.10		
-12	2444	Tr	0.70		
-13	2445	Tr	0.24		
-14	2446	Tr	0.12		
-15	2447	Tr	0.30		
-16	2448	Nil	0.36		
-17	2449	Nil	1.04		

CHARGES \$ 174.25

ASSAYER _____

277-6053

IRON KING ASSAY OFFICE ASSAY CERTIFICATE

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MADE
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Richard Mieritz
2940 N. Casa Tomas
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Feb. 25, 1982

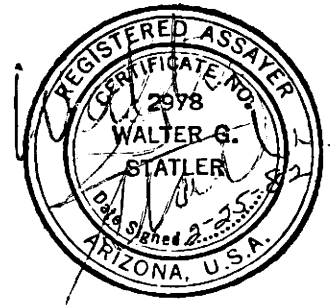
	SAMPLE DESCRIPTION	oz/ton Au	oz/ton Ag		
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-5	2437	Ni1	6.66		
-6	2438	Ni1	0.10		
-7	2439	Tr	0.18		
-8	2440	0.006	0.12		
-9	2441	Tr	0.22		
-10	2442	Ni1	2.04		
-11	2443	Ni1	0.10		
-12	2444	Tr	0.70		
-13	2445	Tr	0.24		
-14	2446	Tr	0.12		
-15	2447	Tr	0.30		
-16	2448	Ni1	0.36		
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CHARGES \$ 174.25

ASSAYER _____

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-5 2437	Nil	6.66		
-6 2438	Nil	0.10		
-7 2439	Tr	0.18		
-8 2440	0.006	0.12		
-9 2441	Tr	0.22		
-10 2442	Nil	2.04		
-11 2443	Nil	0.10		
-12 2444	Tr	0.70		
-13 2445	Tr	0.24		
-14 2446	Tr	0.12		
-15 2447	Tr	0.30		
-16 2448	Nil	0.36		
-17 2449	Nil	1.04		

CHARGES \$ 174.25

ASSAYER _____