UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

PRELIMINARY DATA SET CONTAINING GEOCHEMICAL ANALYSES OF SAMPLES OF ROCK, STREAM SEDIMENT, AND NONMAGNETIC HEAVY-MINERAL CONCENTRATE, WALKER LAKE 2° QUADRANGLE, CALIFORNIA AND NEVADA

By

M. A. Chaffee, R. H. Hill,

W. S. Speckman and S. J. Sutley

OPEN-FILE REPORT 80-881

1980

This report is preliminary and has not been edited or reviewed for conformity with U.S. Geological Survey standards.

ACKNOWLEDGMENTS

We were assisted in the field and (or) laboratory by F. C. Benedict, C. A. Bannister, J. B. Bernard, D. L. Fey, J. R. Guisso, W. J. Keith, A. D. McCollaum, W. R. Premo, J. F. Seitz, R. B. Tripp, J. E. Tucker, R. L. Tucker, and J. R. Watterson. The cooperation of the Walker River Indian Tribe and numerous other property owners is greatly appreciated.

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Chaffee, M. A., Hill, R. H., Speckman, W. S., and Sutley, S. J., 1980, Geochemical analyses of samples of rock, stream sediment, and panned heavy-mineral concentrate, southern part of the Walker River Indian Reservation, Mineral County, Nevada: U.S. Geological Survey Open-file Report 80-365, 17 p.

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Huffman, Claude, Jr., Mensik, J. D., and Riley, L. B., 1967, Determination of gold in geologic materials by solvent extraction and atomic-absorption spectrometry: U.S. Geological Survey Circular 544, 6 p.

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Ward, F. N., Lakin, H. W., Canney, F. C., and others, 1963, Analytical methods used in geochemical exploration by the U.S. Geological Survey: U.S. Geological Survey Bulletin 1152, 100 p.

Ward, F. N., Nakagawa, H. M., Harms, T. F., and VanSickle, G. H., 1969, Atomic-absorption methods of analysis useful in geochemical exploration: U.S. Geological Survey Bulletin 1289, 45 p.

Welsch, E. P., and Chao, T. T., 1975, Determination of trace amounts of antimony in geological materials by atomic absorption spectrometry: Analytica Chimica Acta, v. 76, p. 65-69.

6000 0098 (0890)

NOEL HORLOCKER EVALUATION 4/25/10
Calico Area For Oxy

OCCIDENTAL MINERALS CORPORATION
6273 WEST 44TH AVENUE
WHEAT RIDGE, COLORADO U.S.A. 80033
TELEPHONE (303) 421-9440

6000 0098 (080)

INTER-OFFICE MEMORANDUM

TO: James A. Anderson DATE: April 25, 1970 COPIES:

FROM: Noel Horlocker

SUBJECT: NEVADA - Calico Hills Area - Evaluation of the Porphyry Copper Potential

Summary

The Calico Hills area northwest trending horst composed of east dipping Triassic metasedimentary and igneous rocks intruded by quartz diarite of Cretaceous age. The basement rocks are overlain by Tertiary volcanic rocks and lake beds.

Nine exploration drill holes indicate the sedimentary rocks have been skarnified and contain significant amounts of pyrite-pyrrhotite and magnitite with much less chalcopyrite. Weak pyrite mineralization is present within adjacent quartz diorite containing weak epidote-chlorite alteration. Mineralization and alteration gradients are strongly zoned about the highly mineralized calc silicate horizons.

Eight IP lines and two expander IP lines, utilizing drill hole data, indicate a linear IP anomaly is coincident with the mineralized metamorphic rocks and immediately adjacent quartz diorite. The anomaly indicates significant sulfide mineralization persists only ± 1500 feet east of the skarn zone. The anomaly is offset to the east in the northern portion of the Hills and probably reflects mineralization offset by a small horst north of drill hole WC1.

Conclusions

The iron-copper mineralization in the Calico Hills is of the "contact" metasomatic type and is similar to other such deposits in the western cordillera. There is no evidence that this mineralization is related to a contemporaneous or younger porphyry copper system.

The Calico Hills may contain a completely blind porphyry copper deposit with no mineralization or alteration vector guide leading to it. A similar deposit may be hypothesized in the Hottentot area.

Mineralization similar to that present in the Calico Hills, although lacking magnetite, is present in metamorphic rocks in the Afterthought area. The association of this mineralization with acid differentiates suggests this mineralization may be related to a concealed porphyry copper deposit.

Recommendation

No additional drilling to test for a porphyry copper deposit in the Calico Hills is recommended. Two east-west IP lines are recommended between the Calico Hills and Afterthought area to test for a possible buried porphyry copper system.

Geology

The Calico Hills are a northwest trending horst composed of Triassic metasedimentary and igneous rocks intruded by quartz diorite of Cretaceous age. These units are overlain, with profound unconformity, by Tertiary volcanic rocks and lake beds.

The quartz diorite is probably a hybrid border facies of a large granodiorite batholitic underlying the reservation. Acidic differentiates (including quartz monzonite and aplite) are exposed north of the Calico Hills in the Afterthought area. Local gabbro (eg., in the lower portion of drill hole CA7) may be Triassic in age or possibly consanguineous with the granodiorite. The sedimentary rocks have been altered to hornfels, calc silicate rocks, and quartzite.

Correlation of a quartzite unit in holes CA1 and CA6 indicates the metamorphic rocks strike northwest and dip steeply to the east. They probably form a portion of the western limb of a southeast plunging synform, the offset nose of which appears to be located in the Afterthought area.

The Calico Horst is located within the Walker Lane Wrench fault zone, however, there is no evidence of lateral displacement within the horst. Numerous northeast and northwest trending normal faults are exposed in the Tertiary volcanic rocks. Most of these faults are probably confined to the volcanic cover, although several appear to penetrate basement and form small, east trending horsts and half grabens (eg., the east trending horst north of drill hole WC1). The Tertiary volcanic rocks and the lake beds have been tilted 10° to 30° to the southwest. This tilting has probably steepened, and possibly overturned, the bedding in the underlying metamorphic units.

That portion of the Calico Hills which has not been penetrated by drilling is interpreted to consist of a mixed assemblage of metamorphic rocks and quartz diorite.

Mineralization and Alteration

Nine Exploration drill holes intercepted sulfide and magnetite (in five holes) mineralization in skarnified sedimentary rocks with lesser amounts in adjacent quartz diorite. The strongest mineralization occurs in drill holes CA1 and CA5. The calc silicate zone in these holes contains 5 to 10 volume percent pyrrhotite-pyrite and 25-30 volume percent magnetite with minor chalcopyrite. The true width of this zone is ± 1000 feet. Drill holes CA3, 4 and 6 intercepted a portion of the calc silicate zone and contain similar, but less strong, mineralization. Argillaceous hornfels intercepted in hole CA2 (located west of drill hole CA5) contains less than two volume percent pyrite, minor pyrrhotite and trace to 10 volume percent magnetite. This zone appears to dip beneath the calc silicate zone. Drill holes WC1 and WC3 (located in the northern portion of

of the area) and hole CA7 (located in the southeast portion of the drilled area) penetrated quartz diorite, diorite and various hybred rocks containing one to two volume percent pyrite with very minor chalcopyrite. The igneous rocks appear to border the calc silicate zone on the east. The overall copper content in the drill holes is ± 0.1 percent, with hole CA3 containing ± ~~100~~ 149 feet of ± 0.75 ~~per cent~~ 0.72 copper.

Mineralization, particularly magnetite, is erratically distributed in the calc silicate zone. Sulfides and magnetite have replaced favorable units plunging to the east parallel to bedding. Chalcopyrite, the last mineral to crystallize, is confined to areas generally bordering the massive magnetite-pyrrhotite-pyrite zones.

The mineralization is strongly zoned about the calc silicate horizon. Away from this horizon magnetite and pyrrhotite decrease sharply, with total sulfides decreasing less rapidly (i.e., the pyrite/pyrrhotite ratio changes from much less than one to much greater than one).

The calc silicate zone displays greatest evidence of allochemical alteration with the development of pyroxenes, amphiboles, epidote and other calc silicates. The underlying argillaceous unit is primarily hornifelsed. Quartzite merely recrystallized. The quartz diorite contains weak epidote-chlorite alterations.

Geophysics (IP)

Eight IP lines and two expander lines have been run in the Calico Hills. The linear IP anomaly correlates with the interpreted limits of significant "contact" mineralization. Sulfide mineralization apparently does not persist away from this zone. The shift to the east of the anomaly on lines 4, 5, 6 and 7 may reflect the probably offset in mineralization due to the small horst north of drill hole WC1. At least a portion of the IP anomaly on the east end of line 6 may result from Tertiary volcanics.

Porphyry Copper Potential

The mineralization intercepted in Calico Hills drill holes appears to be of the "contact" metasomatic iron-copper type. Its characteristics are very similar to other "contact" metasomatic iron-copper deposits in the western Cordillera. Although such deposits may contain economic concentrations of copper mineralization, none appear to be associated with porphyry copper deposits. The iron-copper mineralization may not be genetically related to adjacent igneous rocks and several deposits have been reported to occur ± one mile from any potential igneous source. The development of such deposits is apparently a function of regional environmental conditions.

There is no evidence (eg., wide scale diaphthoritic alteration of calc silicates, or sulfide bearing quartz veins) of a younger hydrothermal system being superimposed on the iron-copper mineralization. The linear IP anomaly, utilizing drill hole data, indicates significant sulfide mineralization terminates ± 1500 feet east of the zone of mineralized metamorphic rocks. The weak mineralization and alteration of quartz diorite in this restricted zone indicates the zone has little potential for a porphyry copper deposit. The porphyry copper potential to the north and south is negated by drill hole data and negative IP lines respectively. The pre mineral rocks have been apparently deeply depressed west of the border fault which trends northwest immediately east of drill holes CA8 and WC2.

It is concluded the iron-copper mineralization (and gradients therein) in the Calico Hills is unrelated to an adjacent porphyry copper deposit. A porphyry copper deposit may be concealed beneath the Calico Hills, however, it must be considered a blind target with no vector guides leading to it. Such a deposit may be hypothesized in the Hottentot area.

Mineralization similar to the Calico mineralization, although lacking magnetite, occurs within metamorphic rocks in the Afterthough area. The association with acidic differentiates suggests this mineralization may be related to a buried porphyry copper system located between the Calico Hills and the Afterthought area.

mcd

Calico Fe Cu

1) hole CA-3 had 130' section of .7% Cu
   a) what about {AU, AS, W, SN, NI, PT CO
   {~~TE~~ AU, AG, MO,

2) where is core? PULPS

3) drill hole logs?

4) 7 holes drilled 188,000,000 INFERRED ~ 40% FE

5) CA2 average of .98 % 1.98 g/t AG

6) WC-3 assayed for Co, 28 samples from 10 to 165 ppm
   Ni 2 samples 40 & 90 ppm Cu .24 %

7) No sample runs for W, SN, PT

8) Probably not much that can be done with this deposit except for minor additional assays

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MISSING INFO

Calico

Geologic map by Lawrence - (plate 2)
do ? (plate 1)
overlays for plate 1 (1-4 overlays)
CIA
Field geologic logs of Drill holes (see Carruthers and/or Tabe.
Calico
W Calico
E Calico

Panel Diagrams 1, 2, 3

was little Calico drilled ?

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INDEX TO file

CaLico

1) Haxby R L & Chester William F 1967, an economic and Geologic Evaluation of The CaLico IRON Discovery walker River Reservation Nevada

2) Lawrence Edmond F, Redmond Robert L, Exploration of The CaLico Area Walker River Indian Reservation, Mineral CO NV (Walker Mertel MINING CO RENO Nevada)

3) News Relece 1966

4) Parker Gay Letter 1975 - concern Porphyry Cu deposits Signature of Calico. Parker has published 36 maps & volume on deposits of porphyry

5) Thin sec & Polish work on Calico drill holes, 1966 - Sample No's not tied to hole or footage

6) 8½ x 11 Cross sec Calico CANYON 1966

7) Lawrence E F 1966 letter ~~re~~ to Robert Redmond walker mertel (Prelim report of Geol of the Calico area

Calico Cont.

* Holt Robert E 1966 letter to Bob Redmond Walker Mortel Geology on analogies between yerington, Lyon, & Resource Fe dep Holt feels the Lyon, Yerington & Calico are close in age but not in plumbing. Holt suggested getting age dates

Sumner John S. 1967 letter susceptibility measurements of magnetite from Calico dep.

Wright Phillip M 1974 letter to Bill Wilson, regards Kennecott IP work over Calico + Hottentot

Ross Howard 1474 IP survey of Calico + Hottentot Deposits

Wilson Bill 1966 letter to RL Redmond, regards to drill logs + assay data for Calico holes CA1, CA3

General 1966 ~~evaluation of~~ Drill hole inspection + depth etc on calico ~ 15,786 holes.

Wilson 1967 Complete Assay + Log for Calico CA-1

Maricher Burt 1966 letter to R. Redmond Walker Mortel Metallurgical Tests on Calico

General 1466 assay work on CA-1 by Lemon assay office. rejects sent back to Walker Mortel Co Reno. They have ½ the Core

Calico Cont

Wilson 1979 Letts to Cliff Mark (Cyprus)
Brief discussion of Calico, Hollenbeck, + Lodge deposits

General 196? Complete assay Kenneth Calico

ARW
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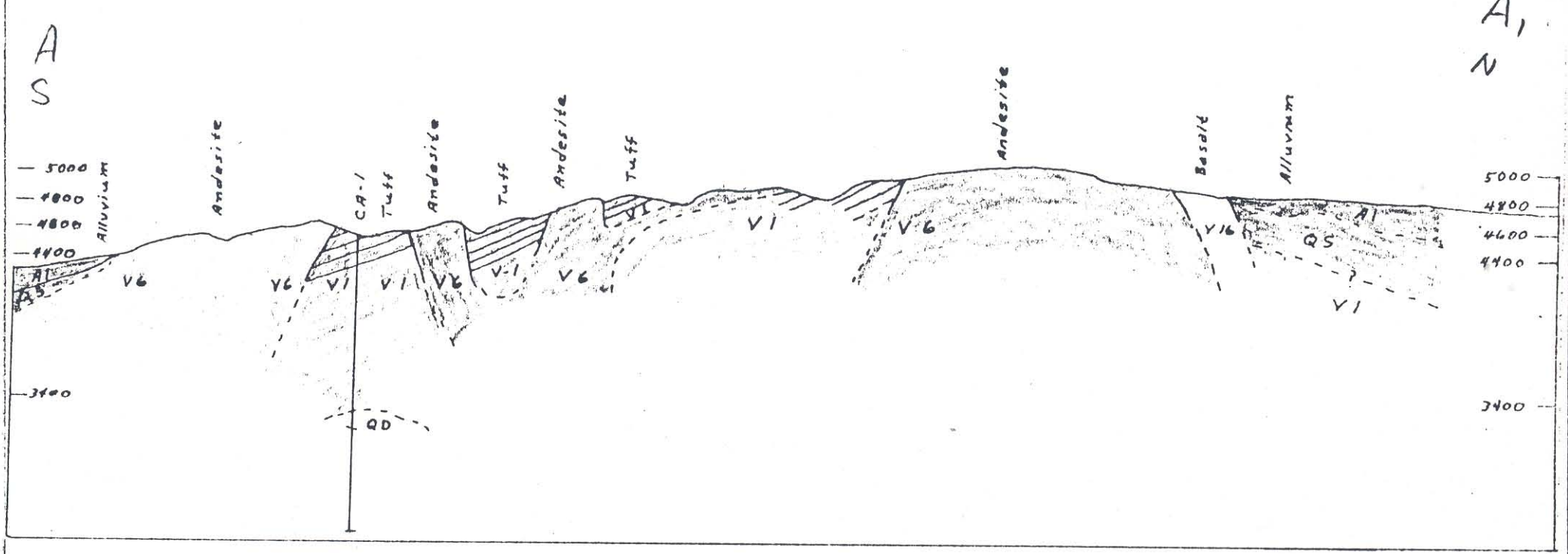
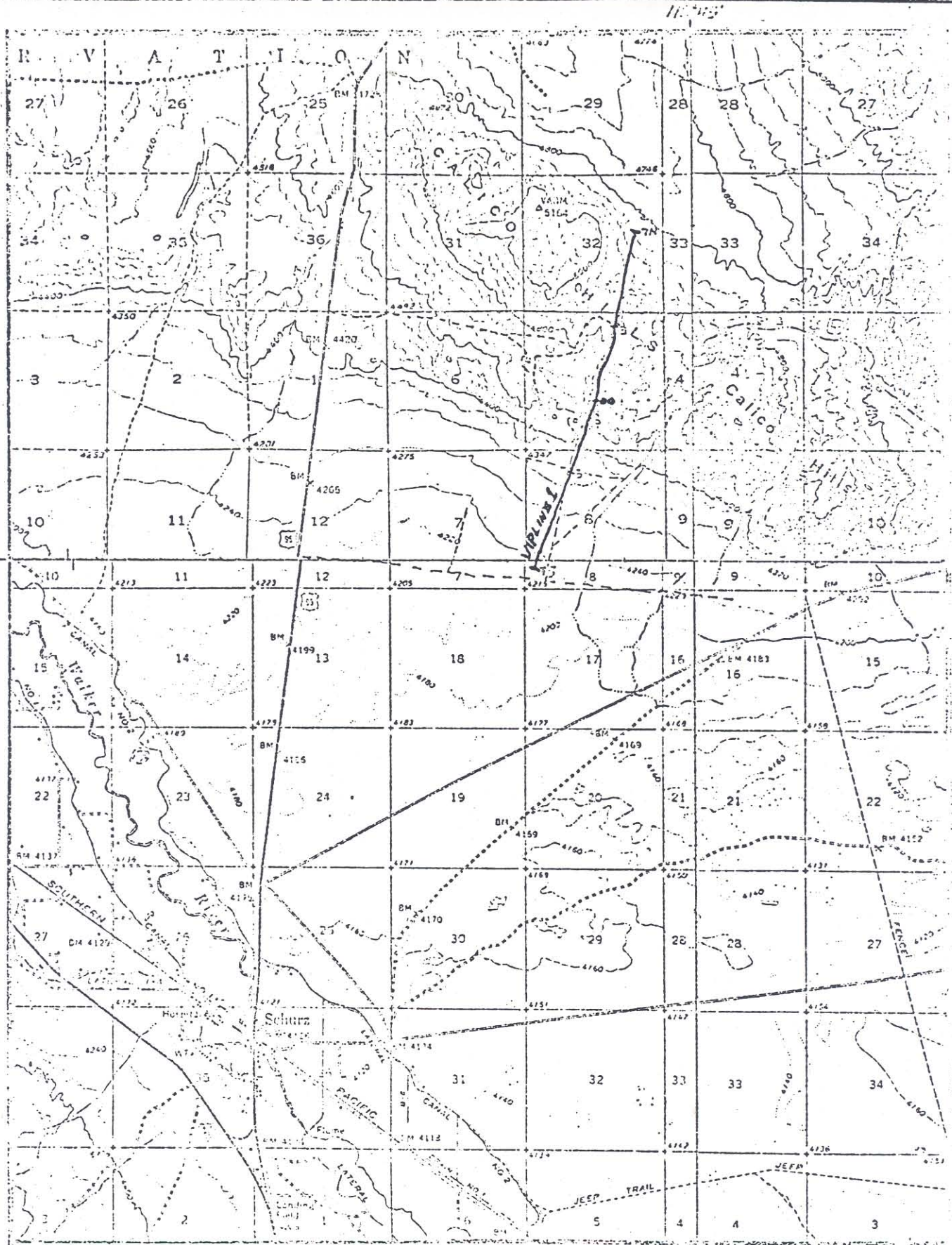


Section A-A' Calico Canyon

Scale 1" = 1000'

PRELIMINARY
Subject to Revision



KENNECOTT COPPER CORP. — EXPLORATION SERVICES PROJECT

GEOPHYSICS DIVISION — U. S. OPERATIONS

Topographic Map Locating CALICO VIP LINE 1, MINERAL CO., NEVADA

Figure 3

6000 0098 (0890)

To WLW

Date 6-5-75 Time 9:50 AM

WHILE YOU WERE OUT

Mr. Parker Gay

of Applied Geophysics, Inc.

Phone 801 328-8949
Area Code Number Extension

TELEPHONED		PLEASE CALL	
CALLED TO SEE YOU		WILL CALL AGAIN	
WANTS TO SEE YOU		URGENT	
RETURNED YOUR CALL			

Message Came in to see you again. Nog talked with him - I tried to reach you at home thinking that you might wish to speak with him on the telephone but you were already gone to graduation....

(over)

Operator

Reorder No. 2725-S

Richardson OFFICE SUPPLY CO.

TELEPHONE 242-2455

CONSULTANTS AND CONTRACTORS TO THE MINING INDUSTRY

S. PARKER GAY, JR.
GEOPHYSICIST

applied geophysics inc

~~100 SOUTH 900 EAST~~ SALT LAKE CITY, UTAH 84102

6000 0098 (0890)

He is familiar with the Calico and wishes to speak with you once he found out that you had that property. Says he knows where the copper porphyry deposit is. Nog told him that he was sure you would want to talk with him about that. I had already told him that you wanted to talk with him.

He had to catch a plane back to Salt Lake City at 12:00 today - was sorry he had missed you, and thought perhaps you could stop in Salt Lake City sometime to talk with him.

Sarah

6000 0098 (0890)

Telephone 363-3302

Hand Sample Serial [illegible]

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

W. C. WALLACE, President
L. G. HALL, Vice President
G. P. WILLIAMS, Treasurer
LILY M. HOTTINGER, Secretary
P. O. Box 1528
Salt Lake City, Utah 84110

RESULTS PER TON OF 2000 POUNDS

Sept. [illegible], 1966.

NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent
										Holy	
[illegible]				[illegible]	838 - 878						
[illegible]			3.00	[illegible]	836 - 844					Zinc	
[illegible]		2.00		0.006	754	762					
[illegible]		3.00		0.006	673	696				Iron	
[illegible]		3.00		0.006	480	484					
				0.013	1787 -	1827		21.3			
				0.044	1827 -	1848		25.3			
				0.037	1852 -	1875		25.7			
				0.075	1879 -	1885		40.9			
55 WS				0.025	1895 -	1912		24.3			
57 WS				0.081	1958	1972		9.4			
58 WS				0.025	1994	2017		13.6			
[illegible] WS				0.056	2043	2052		15.2			
[illegible] WS				0.113	2077	2085		12.2			
[illegible] WS				0.069	2100	2110		19.1			
[illegible] WS				0.069	2816	2835		51.5			
[illegible] WS				0.151	2835	2857		56.3			
[illegible] WS				0.113	2857	2876		53.9			
[illegible] WS				0.100	2876	2897		51.5			
[illegible] WS				0.100	2897	2921		57.1			
[illegible] WS				0.037	2256.5	2264		12.0			
[illegible] WS				0.025	2282	2299		6.0			
[illegible] WS				0.037	2310	2313		12.4			
[illegible] WS				0.006	2329	2332		4.4			
[illegible] WS				0.025	2338	2345		9.2			
[illegible] WS				0.037	2352	2364		17.0			
[illegible] WS				0.012	2364	2375.5		7.2			
[illegible] WS				0.037	2383.5	2391.5		12.8			

CA-4

CA-1

CA-4

Remarks .....

Charges $ 116.25

Glenn L. Williams

60000 0098 (0890)

REJECT SAMPLES STORED AT SCHURZ

On February 9, 1963 the following 2800 lb. shipment of reject samples was received from Pacific Intermountain Express in Reno and transported to Schurz for storage. All numbers are WM unless otherwise noted. All samples marked -2 consist of 2 bags.

Void- ticket never printed

	240	250-2	260	270	280	290	300	310	320
	241	251	261-2	271	281	291	301	311	321
	242-2	252	262	272	282	292	302	312	322
	243-2	253-2	263	273	283	293	303	313	323
	244	254-2	264	274	284	294	304	314	324
	245	255	265	275	285	295	305	315	325
236	246	256	266	276	286	296	306	316	326
	247	257	267	277	287	297	307	317	327
	248-2	258	268	278	288	298	308	318	328
239-2	249-2	259	269	279	289	299	309	319	329

330		350	360	370	380	These samples were assayed by
331		351	361	371	381	Union Assay Co., Salt Lake City,
332		352	362	372	382	Utah
333		353	363	373	383	
334		354	364	374		
335		355	365	375	385	1168R is WC3 from 1126 to 1132
336		356	366	376		
337		357	367	377		
338	348	358	368	378		
339	349	359	369	379		

In addition, one bag marked 524V was noted and a bag of uncrushed core pieces marked "Broken samples from 243-244WM" was received.

At the present time, these samples are stored in the two outside stacks at the east end of the warehouse but may be moved later.

John H. Volgamore

John H. Volgamore
Geologist

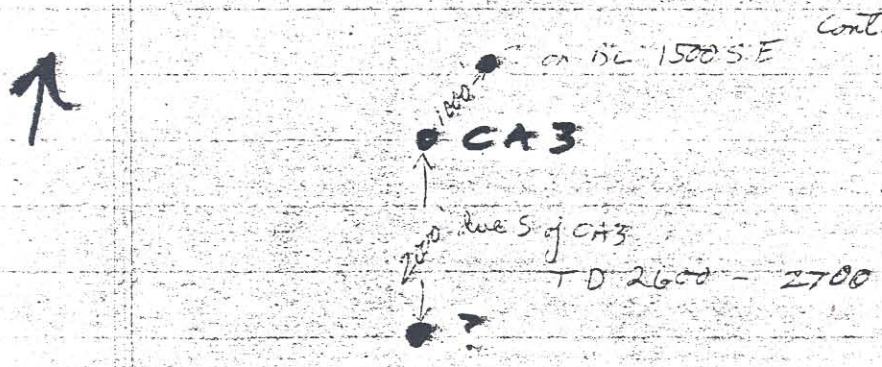
February 23, 1968

5/6/71

File Rec.
Butte Rec.

JHV Says:

Drill holes on Calico



Red Ridge, between Little Calico and Black Eagle. JHV says Diorite underlies No. side of Red Ridge. NOT Too Far From Black Eagle.

ask JHV if he ran ground mag on Black Eagle for Day.

have him spot DH on map.

Rocky Mountain Geochemical Corporation

P. O. BOX 2217
SALT LAKE CITY, UTAH 84110

Phone 322-2396
Area Code: 801

CERTIFICATE OF ANALYSES

Date June 5, 1969

Client Occidental Minerals

100 Washington St. Suite 4

Reno, Nevada

Report on: 20 rock samples

Submitted by: B. W. Adams

Date Received: May 29, 1969

Analysis: Copper, Iron.

Remarks: Above determined by atomic absorption.
Job No. 69-12-34 SL. 69-10-7 R. Sulphur analysis to follow shortly.
cc: ENC ✓
RMGC-Reno
File (2)

LRR:mah

ND = None Detected 1 ppm = 0.0001% 1 Troy oz./ton = 34.28 ppm % Mo x 1.6683 = $\%MoS_2$

Sample No.	ppm Copper	% Iron
R6C-#1	315	27.5
" 2	775	52.0
" 3	+1000=.17%	51.0
" 4	795	51.5
" 5	+1000=.21%	54.5
" 6	950	48.5
" 7	240	40.0
" 8	585	5.0
" 9	460	11.0
" 10	590	19.0
" 11	620	14.0
" 12	700	20.5
" 13	900	26.0
" 14	+1000=.14%	23.5
" 15	850	20.5
" 16	+1000=.17%	6.5
" 17	+1000=.14%	12.5
" 18	+1000=.14%	22.0
" 19	+1000=.12%	13.0
" 20	120	2.1

By Lawrence R. Reid (L. R.)
Lawrence R. Reid

Sample No.	ppm Copper		% Iron
R6C-#1	315	.03	27.5
" 2	775	.08	52.0
" 3	+1000=.17%		51.0
" 4	795	.08	51.5
" 5	+1000=.21%		54.5
" 6	950	.10	48.5
" 7	240	.02	40.0
" 8	585	.06	5.0
" 9	460	.05	11.0
" 10	590	.06	19.0
" 11	620	.06	14.0
" 12	700	.07	20.5
" 13	900	.09	26.0
" 14	+1000=.14%		23.5
" 15	850	.09	20.5
" 16	+1000=.17%		6.5
" 17	+1000=.14%		12.5
" 18	+1000=.14%		22.0
" 19	+1000=.12%		13.0
" 20	120		2.1

70' of 46.43 Fe

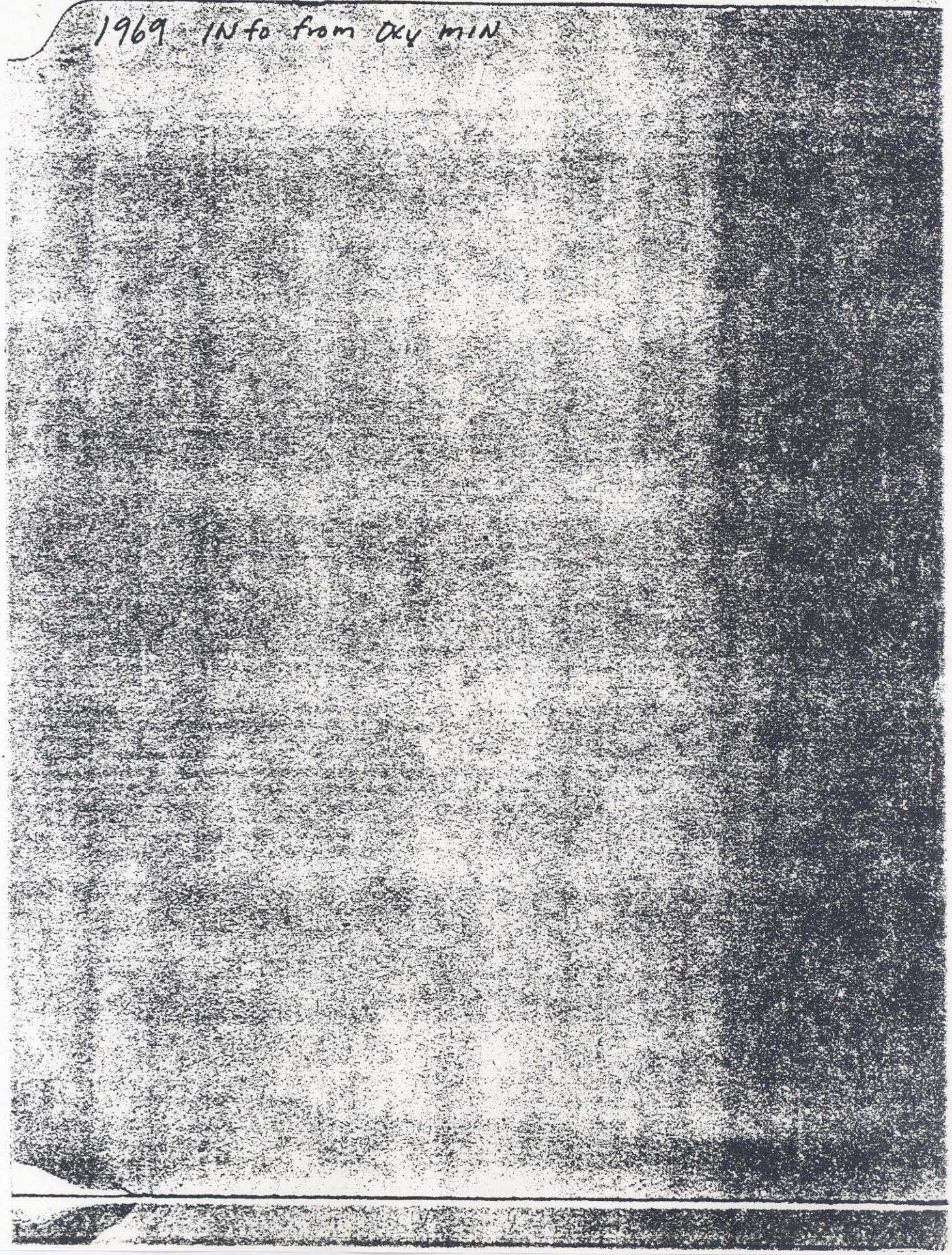
48,611 tons @ 46.43% Fe

By Lawrence R. Reid (L.S.)
Lawrence R. Reid

6000 0098 (0800)

CALICO

1969 INfo from Oky MIN



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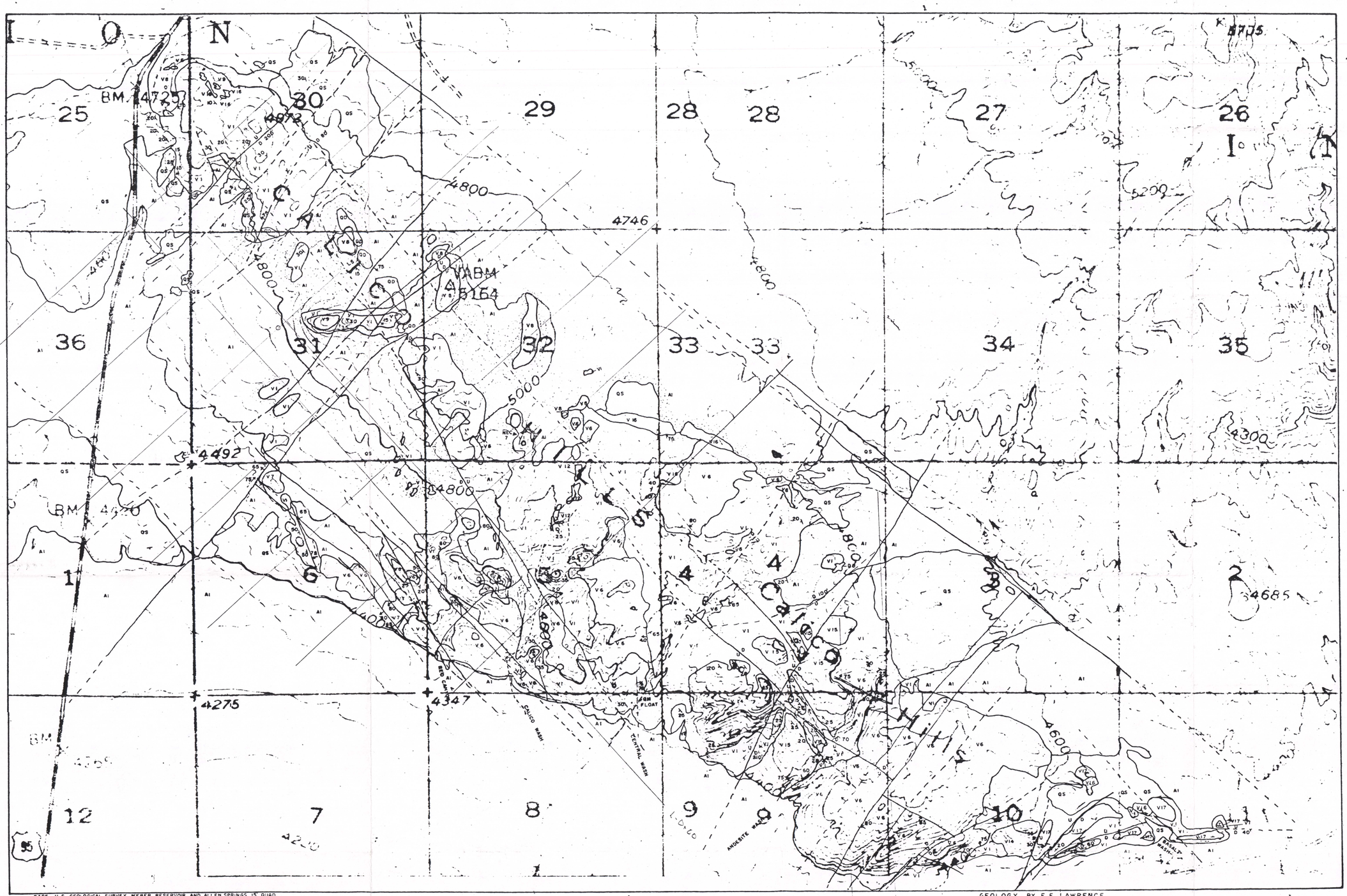

EXPLANATION

QUATERNARY

- Al — ALLUVIUM, WITH SAND
- Al — ALLUVIUM
- QS — LAKE SEDIMENTS
- V17 — BASALT FLOWS
- V16 — BASALT, INTRUSIVE

TERTIARY

- V12 — INTERMEDIATE INTRUSIVES
- V9 — RHYOLITE INTRUSIVES
- V8 — RHYOLITIC, (?) INTRUSIVE, (FLOW (F)
- V7 — ACIDIC INTRUSIVE
- V6 — ANDESITE INTRUSIVES
- V14 — RHYOLITE, FLOWS (F)
- V3 — TUFFS, QUARTZ LATITIC
- V15 — TUFF, RHYOLITIC, FINE GRAINED WELL INDURATED
- V1 — TUFFS, COARSE TO FINE GRAINED,

MESOZOIC

- LS — LIMESTONE, TACTITE ZONE
- QD — GRANITIC INTRUSIVES QUARTZ DIORITE TO QUARTZ MONZONITE

CONTACTS

FAULTS

BASE U.S. GEOLOGICAL SURVEY WEBER RESERVOIR AND ALLEN SPRINGS 15' QUAD.

GEOLOGY BY E.F. LAWRENCE

CALICO AREA, WALKER RIVER PAIUTE RESERVATION, SCHURZ, MINERAL COUNTY, NEVADA

SCALE 1:12000

1000 0 1000 2000 3000 4000 5000 FEET

CONTOUR INTERVAL 40 FEET

D-7 D-8 (combined)

VATICAN

BM 4744

BM 4725

BM 4420

BM 4265

DRY LAKE

CLAY

23 24 19

26 25 30

35 36 31

2 1 6

11 12 7

4650 4600 4560 4518 4600 4800 4400 4350 4492 4400 4281 4275 4240 4220

95

D-6

6000 0098 (0890)