JOHN DAVIS'S
DALLEY LODE
CLAIMS

FILE DOUGLAS County

60008617

3850

GEOLOGIC REPORT

VALLEY LODE CLAIMS

RED CANYON MINING DISTRICT

DOUGLAS COUNTY, NEVADA

by

RICHARD KERN

CONSULTING GEOLOGIST

Richard L. Kern

RICHARD KERN

March, 1976

TABLE OF CONTENTS

		Page No.
I.	SUMMARY AND RECOMMENDATIONS	A
II.	LOCATION	1
III.	LAND STATUS	1
IV.	GEOLOGY	1
	A. General	1
	B. Structure	3
	C. Economic Mineralization	4
V.	PHOTOGRAPHS	6
VI.	COPIES OF LABORATORY TESTS AND SAMPLES	8
VII.	QUALIFICATIONS OF GEOLOGIST	14
	ENVELOPE OF MAPS ON BACK COVER	

SUMMARY AND RECOMMENDATIONS

The Valley claim block is located within Triassic-Jurassic calcareous metasediments which have been intruded by Cretaceous granitic bodies. These intrusives are closely related to the main Sierra Nevada batholith located a few miles west. High angle normal faulting to the east has uplifted a westward dipping mountain system, the Pine Nut Range.

The Pine Nut Mountains have produced limited quantities of copper, gold, silver and tungsten since gold was discovered there in the 1860's. Ore minerals found at the Valley claim area include chalcopyrite and molybdenite. Gangue minerals are pyrite, pyrrhotite, quartz and epidote.

All mineralization noted on the property is associated with replacement of calcareous sediments. The occurrence of molybdenite and chalcopyrite as replacement products is similar to mineralization at the Alpine Mine which is a tungsten prospect located on the west side of the range. The Alpine property is held by the Climax Molybdenum Company. A thorough search of the Valley prospect should be made for tungsten.

The next step in exploration of the prospect area should be geochemical sampling. One of the more important areas for rock chip sampling is the 1000 feet by 300 feet iron oxide stained zone on the north side of the canyon bordering a large granitic body. This zone contains no pits or other visible signs of exploration. Limited analysis for gold and silver should be made in addition to copper and tungsten.

If results of this sampling are favorable a geophysical survey may be appropriate. An I.P. survey across the above-mentioned alteration zone with 100-200 foot electrode spacings would show concentrations of disseminated metallic minerals. Also, a ground magnetics survey would be helpful in locating structures and lithologic contacts. The magnetometer may be useful in finding concentrations of pyrrhotite; however, pyrrhotite is only weakly magnetic and would be masked by even very small amounts of magnetite.

LOCATION

The Valley claim block is located at the mouth of Red Canyon on the east side of the Pine Nut Range, 30 miles southeast of Carson City, Nevada. Access from Carson City is via route 395 south to the junction of route 3 at the south end of the range. Route 3 is followed east to the range front road which gives access to Red Canyon.

LAND STATUS

The property consists of 9 unpatented lode claims oriented as shown on the accompanying maps. The claims are located on Bureau of Land Management controlled public domain and are owned by John P. Davis of P. O. Box 727, Minden, Nevada. Presently,9 claims are being held, to wit: Valley Lode Claim 1, 2, 3, 5 (fractional) 11, 14, 15, 16, and 17.

GEOLOGY

General:

The Pine Nut Mountains block of rocks has been sharply upfaulted on the east and tilted west. The range is dominated by Cretacious granitic rocks which are closely related to the Sierra pluton located just west of the range. Large areas of Triassic-Jurassic metasedimentary and metavolcanic rocks are located in the northern and southern parts of the range. Some, if not all, of these older rocks are roof pendants. Tertiary volcanics cover only the higher elevations. Tertiary sediments

are abundant on the west side of the range which dips under Quarternary flood plain deposits of the Carson Valley.

Cretaceous intrusives ranging in composition from quartz monzonite to granodiorite border Red Canyon both North and South. Within the Valley Lode Claim block quartz monzonite is the most abundant intrusive rock.

The older country rocks of the prospect area are all metasediments (see accompanying maps). Micaceous quartzites which were originally "dirty" sandstones are most common. The metamorphosed equivalents of sedimentary limestone breccia, argillite,and graywacke are also present. A sedimentary breccia having a calcareous cement has been subdivided from the section. This unit contains interbedded quartzites and is occasionally conglomeratic.

Also subdivided from the metasedimentary section are limestones. Two distinct limestone subtypes occur within the claim block. The first, which contains much of the vein mineralization of the area is shaley and thin bedded. The second type, outcropping only in the southwest corner of the mapped area, is massively bedded, pure, and non-mineralized.

Strike of the metasediments is northwest-southeast to east-west. Dip direction varies considerably due to faulting.

One gravity slide occurs on the north side of the canyon. Quaternary alluviam and colluvium of Smith Valley border the prospect to the east.

Structure:

The claim area is structurally complex and only gross features were mapped. Such a feature is the nearly east-west trending fault which follows the lower part of the canyon (see maps). This fault truncates the large granitic intrusive which outcrops on the north side of the canyon. To the east, the fault disappears under valley alluvium. It is not known if the range front fault, located close by under the Quarternary cover, is offset by this east-west structure. To the west the fault is truncated by a northeast-southwest trending structure which can be traced several miles southwest.

A northwest-southeast striking fault separates flat-lying strata in the southwest part of the mapped area from steeply dipping beds in the central portion. There is probably another shear or shear zone separating the central steeply dipping beds from more flat-lying and east-west trending units to the northeast. This fault zone probably trends through the heavily iron oxide stained alteration area outlined on the north side of the canyon (see maps).

All faults mapped within the claim block are high angle. Not enough work was done to determine whether the faulting shows normal or reverse movement. Strike slip movement appears minimal.

No evidence of folding was found in the mapped area. This is probably due to the dominance of quartzites which fracture instead of reacting plasticly.

Economic Mineralization:

Since gold was discovered in the Pine Nut Range in the 1860's the area has had limited production of copper, gold, silver, and tungsten.

No recorded production exists from the Valley claims although several adits and prospect pits are scattered across the area. All economic mineralization noted in the prospect area is due to the replacement of calcareous sediment. Shaley limestone shows the most concentrated replacement. Some structural control was noted in adits in the southeastern part of the mapped area. Here, massive pyrrhotite veins up to 3 or 4 feet in width replaced calcareous rock along minor faults.

Economic minerals found in the southeastern portion of the claim block include chalcopyrite, bornite, and molybdenite. Copper carbonate is ubiquitous in most of the dumps and prospect pits. The most abundant gangue minerals are epidote, quartz, pyrite and pyrrhotite.

Besides the iron oxide alteration zone associated with replacements of the shaley limestone there is a large alteration zone (pyritic) on the north side of the canyon bordering an instrusive. This alteration zone measures 1000 feet by 300 feet. It contains no prospect pits and is virtually unexplored. This area should be geochemically sampled and check with an utraviolet light.

The Alpine Mine area on the west side of the range has similar stratigraphy and mineralization to that of the Valley

claims. Climax Molybdenum Corporation holds 52 claims covering the Alpine Mine area and has apparently found sufficient tungsten mineralization to warrant retaining the property. Chalcopyrite and molybdenite are present in calcareous sediments at the Alpine Mine as at the Valley claims.

At least one quartz vein occurs within the area. No associated sulfides were noted.

The source of economic minerals found in the Valley claim block appears to be late stage fluids associated with the Cretaceous granitic instrusives.

PHOTOGRAPHS

Looking West and up mouth of Red Canyon

Massive Pyrite Claim #15

Massive Pyrite Claim #11

Looking Northwest at North Side
Canyon alteration zone shown

COPIES OF LABORATORY TESTS AND SAMPLES

Description of samples--see Assay Reports attached for actual analysis.

V-1 - Sulfide float from north side of Canyon above caved adit Claim #2.

V-2 - Finer material from sulfides outcrop. Slightly lower in elevation from V-1. Also on Claim #2.

V-4 - Chip sample from copper oxide above adit on Claim #14.

V-5 - Massive pyrite from dump on Claim #14.

V-6 - Sulfide float from high elevation on Claim #11.

V-11 - Sulfide sample from dump on large adit located on Claim #1.

Unnumbered assay of copper and mineralization from large dump where V-11 taken. This sample run at the Nevada Bureau of Mines.

Do NOT write on this page. For Laboratory use only.

Report No. 0244 **Date:** May 28, 1975

Sample Number	SAMPLE DESCRIPTION	Ounces Per Ton	
		Gold	Silver
	Copper - 0.42% Massive dense and fine-grained quartz-chlorite rock disseminated with pyrite and chalcopyrite. More detailed field relation is needed to determine whether it is meta-volcanic or meta-sedimentary rock.	0.00	0.00

P. Youngblood

P. Youngblood
Nevada Mining Analytical Laboratory

FIRE ASSAYING
FOR
GOLD & SILVER

MERCURY
TESTING

LABORATORY TESTING
FOR
MILLING PROCESSES

R. R. WEIDEMAN

Mining Laboratory
No. 9, 3160 Deer Run Road
(Off of Highway 50 East)
Carson City, Nevada 89701

Telephone:
Lab: (702) 882-3170
Res: (702) 882-3807

Mailing Address
1801 Pyrenees
Carson City, Nevada 89701

September 9, 1974

REPORT OF FIRE ASSAY RESULTS

ON SAMPLES SUBMITTED BY:

John P. Davis
P.O. Box 985
Minden, Nevada 89423
On 9/6/74

SAMPLE MARKED:	TROY OUNCES GOLD PER TON	TROY OUNCES SILVER PER TON
V-1	None	None
V-2	Trace	0.18
V-4	Present, but below 0.0025	
V-5	0.005	0.48
V.6	0.005	0.46
	Trace	0.36
	Present, but below 0.0025	

R.R. Weideman

R.R. Weideman - Assayer

METALLURGICAL LABORATORIES, INC. CHEMISTS - ASSAYERS • SPECTROGRAPHERS

1142 HOWARD STREET • SAN FRANCISCO, CALIFORNIA 94103 • AREA CODE 415 863-8575

REPORT OF ASSAY

Submitted by Mr. John P. Davis
P. O. Box 1945
Carson City, Nevada 89701

Date September 17, 1974

Sample of Minerals

P. O. No.

Lab. No. 7532

SAMPLE MARK	GOLD, PER TON OF 2,000 LBS.		SILVER, PER TON OF 2,000 LBS.				
	TROY OUNCES	VALUE	TROY OUNCES	VALUE	Copper %	%	%
V-4					1.28		
V-5					0.26		
V-6					0.054		

METALLURGICAL LABORATORIES, INC.

By Martin P. Davis

HUNTER MINING LABORATORY

3160 NORTH DEER RUN ROAD, NO. 9
CARSON CITY, NEVADA 89701

HENRY H. SCALES
LABORATORY: (702) 882-3170
RESIDENCE: (702) 883-3291

April 15, 1975

MR. JOHN P. DAVIS
P. O. Box 727
Minden, Nevada 89423

LABORATORY NO.: 0104

REPORT OF ASSAYS
- Gold and Silver (by fire assay) in troy ounces per ton (2000 lb.av.)
- Copper in percent (parts per hundred)
- on the samples submitted on April 14, 1975:

SAMPLE MARK:	GOLD	SILVER	COPPER
GC-1	0.050	1.07	
GC-2	0.040	1.76	
GC-3	0.040	0.94	
V-11			0.8

H. H. Scales - Assayer

HUNTER MINING LABORATORY

3160 NORTH DEER RUN ROAD, NO. 9
CARSON CITY, NEVADA 89701

HENRY H. SCALES
LABORATORY: (702) 882-3170
RESIDENCE: (702) 883-3291

March 10, 1975

MR. JOHN P. DAVIS
P. O. Box 727
Minden, Nevada 89423

LABORATORY NO.: 0076

REPORT OF FIRE ASSAY
- in troy ounces per ton (2000 lb.av.)
- on the sample submitted on March 6, 1975 by you:

SAMPLE MARK:	GOLD	SILVER
V-10	none	0.16

H. H. Scales - Assayer

QUALIFICATIONS OF GEOLOGIST, RICHARD KERN

P. O. Box 11282, Reno, Nevada 89510.

B.S., M.S. Geology; minors in Economics and Civil Engr. 4-1/2 years in mineral exploration and property evaluation in the western U.S. and Colorado. This includes one year with the Geological Survey in Denver.

5,000E

6,000E

7,000E

11,000N

10,000N

9,000N

8,000E

15

16

17

14

2

1

Kg

JTRms

JTRLs

JTRb

Qgs

LM

17°

16°

Small Open Cut Au-0, Ag-0

Small Open Cut with copper oxide

Semi Massive Pyrite in Epidote Rich Quartzite

Possible Fault Contact

"UPPER" 6511.7

Iron oxide stained

Calcareous Shale Pyrite > 20%

Shaley limestone

Abundant Pyrite under ground with some copper oxide

CuO Stain in drift

CuO outcrop above adit Cu 1.28% Ag 0.48

ADIT 5803.1

Calcareous Sedimentary Breccia

Some Volcanic Debris

FAULT

ACTUAL CORNER LOCATED HERE TIE PER MINING CLAIMS MAP TO ACTUAL CORNER

CORNER SHOULD BE HERE

GRANITE 6038.4

N66°21'37"E 1586.31

ABUNDANT PYRITE >15%

Altered zone

S60°45'40"E 2193.16

TO LINE

N34°29'25"W 1978.06

N82°35'47"W 1402.44

Adit unsafe not examined

S84°43'37"W

2169.80

Small Cut with CuO

T-8 5700.7

Shaley Limestone 45°

T7 5419.0

T6 5361.4

5322

5312

5289

ROAD

GATE

MAJOR FAULT

TO RIDGE

CREEK RUNS YEAR AROUND

5354

25° calcareous Quartzite

Covered with Talus

N67°45'37"W 2163.80

N68°50'35"W 2761.10

TO RIDGE

Buff Colored Massive Limestone

Micaceous Quartzite AND Argillites

Calcareous Sedimentary Breccia with interbedded Calcareous Quartzite

SCALE 1"=100'

NOTE: SEE GEOLOGICAL LEGEND SHEET 1

VALLEY LODE CLAIMS
RED CANYON MINING DISTRICT

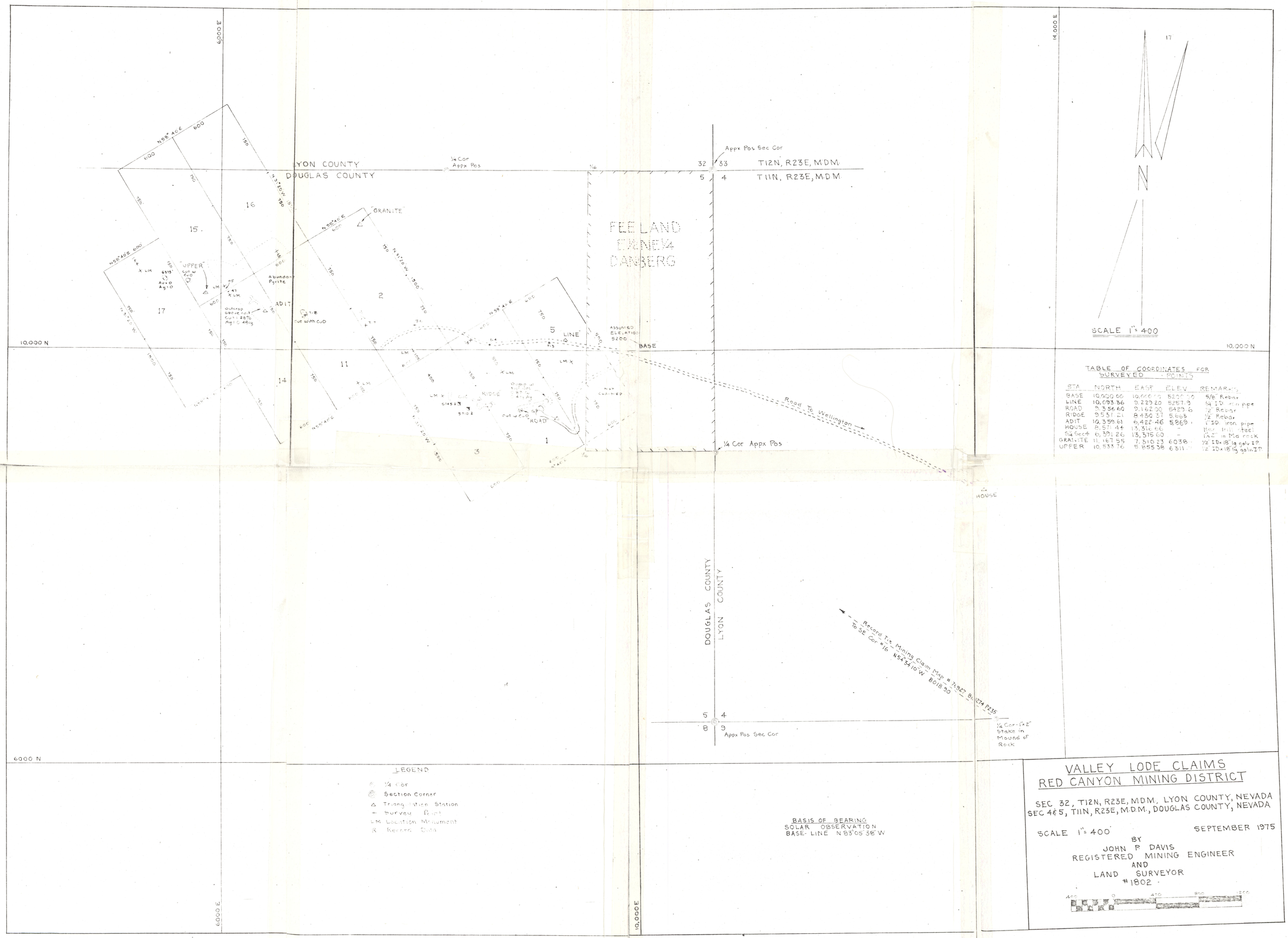
SEC 32, T12N, R23E, M.D.M., LYON COUNTY, NEVADA
SEC'S 4 & 5, T11N, R23E, M.D.M., DOUGLAS, COUNTY, NEVADA

SCALE 1 in. = 100 Ft

MAR 1976

BY:
JOHN P. DAVIS, MINING ENGINEER
AND
RICHARD KERN, GEOLOGIST

SHEET 2 of 2


6000 E
14,000 E
10,000 N
6000 N
10,000 E
LYON COUNTY
DOUGLAS COUNTY
¼ Cor Appx Pos
Appx Pos Sec Cor
T12N, R23E, M.D.M.
T11N, R23E, M.D.M.
32
33
5
4
16
15
17
2
11
14
1
3
5 LINE
BASE
Assumed Elevation 5200
FEE LAND
E½ NE¼
DANBERG
"GRANITE"
"UPPER"
cut in CuO
Abundant Pyrite
ADIT
Outcrop Oxidized Cut 1.28% Ag 0.40 oz
cut with CuO
RIDGE
ROAD
Road To Wellington
HOUSE
SCALE 1" = 400
N
TABLE OF COORDINATES FOR SURVEYED POINTS
STA NORTH EAST ELEV. REMARKS
BASE 10,000.00 10,000.00 5220.10 5/8" Rebar
LINE 10,093.36 9,223.20 5257.9 3/4 I.D. iron pipe
ROAD 9,356.60 9,162.20 5423.6 1/2 Rebar
RIDGE 9,551.21 8,430.37 5,663 1/2 Rebar
ADIT 10,359.61 6,422.46 5,869 1" I.D. iron pipe
HOUSE 8,571.44 13,316.66 — Hex. frill steel
¼ Sec 4 6,391.26 13,375.60 — 1"x2" in Ma rock
GRANITE 11,167.55 7,510.33 6038 ½" I.D. x 18" lg galv. I.P.
UPPER 10,533.76 8,855.38 6311 ½" I.D. x 18" lg galv. I.P.
DOUGLAS COUNTY
LYON COUNTY
Record Tie - Mining Claim Map @ 74,927 Bk 274 P235
To SE Cor #16 N54°34'10"W 8018.90
5
4
8
9
Appx Pos Sec Cor
½ Cor - 1"x2" Stake in Mound of Rock
LEGEND
¼ Cor
Section Corner
Triang. Intern. Station
Survey Point
LM Location Monument
R Record Data
BASIS OF BEARING
SOLAR OBSERVATION
BASE-LINE N 83°05'36" W
VALLEY LODE CLAIMS
RED CANYON MINING DISTRICT
SEC 32, T12N, R23E, M.D.M., LYON COUNTY, NEVADA
SEC 4 & 5, T11N, R23E, M.D.M., DOUGLAS COUNTY, NEVADA
SCALE 1" = 400'
SEPTEMBER 1975
BY
JOHN P. DAVIS
REGISTERED MINING ENGINEER
AND
LAND SURVEYOR
#1802
400 0 400 800 1200

8,000E 9,000E 10,000E 11,000E

11,000N

10,000N

9,000N

TO "GRANITE"

TO GRANITE

TO UPPER

TO ADIT

TO T-7

YEAR AROUND STREAM

GATE

TALUS & OVERBURDEN

SEE NOTE

LM

100

JTRms

Kg

JTRb

Limest Breccia

S60°45'40"E 2199.16

N82°33'47"W 3402.44

S84°34'52"W 2819.33

N34°25'25"W 1976.06

N67°43'37"W 2169.80

N68°50'35"W 2761.10

S58°09'14"W 873.86

N75°54'20"E 1686.42

S05°12'42"W 759.82

N62°25'01"E 1686.51

IRRIGATION DITCH

ROAD

MAJOR FAULT APPX TRACE

"RIDGE"

"LINE"

"BASE"

OLD STREAM BED DRY - WATER DIVERTED

SOLAR OBSERVATION

Elev assumed 5200'

APPX BOUNDARY OF FEE LAND

STAKED BUT NOT CLAIMED

Calcareous Edgewise Conglomerate

shaley limestone; shows minor drag folds

Caved Adit

Calcareous edgewise conglomerate

Dump Some Chalcopyrite, Molybdenite 0.8% Cu

Good Show Copper Oxide

Thick Colluvium

Cu⁰ Stain

Meta Graywacke

very Micaceous Quartzite

Micaceous Quartzite

Shaley Lime Stringers

Kbd

mineralized

mineralized vein

copper Oxide

Small cut with Cu⁰

Argillic Micaceous Quartzite

GEOLOGICAL LEGEND

Quaternary

- Qu — Alluvium and Colluvium
- Qgs — Gravity Slide

Cretaceous

- Kg — Granitic Intrusive: Composition ranges from quartz monzonite to Granodiorite with quartz monzonite dominant
- Kbd — Basic Dike

Triassic - Jurassic

- JTRb — * Sedimentary Breccia: Calcareous; contains interbedded micaceous quartzite; is often conglomeritic
- JTRls — * Limestone: Both Massive and Shaley (see map)
- JTRms — * Undivided Metasediments: Dominated by micaceous quartzite; minor graywacke, shale argillite

* Note: Sedimentary Units not necessarily in proper stratigraphic sequence.

Fault (Blue)

Contact

80° Bedding Attitude

Approximate Boundary of Alteration Zones stained with Fe_2O_3. Zones contain greater than 10% Sulfides

60° Sulfide Vein with attitude; Disseminated Sulfides Copper Carbonate staining (Red)

17°

N

SCALE 1" = 100'

NOTES

1. All the resurveyed corners were located off of this claim corner. In some cases a transit, stadia and compass were used. In the more difficult areas a Brunton with the rag tape were used. The record tie to the SE Cor of claim 16 as per the mining claim map is to the actual position of the corner in the field. The actual corner is approximately 50' From where it should be. See Sheet 2

VALLEY LODE CLAIMS
RED CANYON MINING DISTRICT

SEC 32, T12N, R23E, M.D.M., LYON COUNTY, NEVADA
SEC'S 4 & 5, T11N, R23E, M.D.M., DOUGLAS COUNTY, NEVADA

SCALE 1in.=100ft MAR 1976

BY
JOHN P. DAVIS, MINING ENGINEER
AND
RICHARD KERN, GEOLOGIST

WALKE

1:500 000 FEET
SCALE 3

30 R 15' 119°

WABUSKA 10 MI. HAWTHORNE 54 MI.

Weed Heights
SINGATSE PEAK 6573
Yerington
LUHR HILL
Cemeteries
Mason
Windmill
SINGATSE RANGE
6552
Slaters Mine
5945
8864
PINE NUT MOUNTAINS
PINE NUT VALLEY
DOUGLAS CO
LYON CO
Ruins
Ranch
Nevada Hot Springs
Old Railroad Grade
MOUNT SIEGEL
9450
OREANA PEAK
9309
VALLEY VIEW LODE CLAIMS
SMITH
Red Canyon
Ruins
Valley View
4820
Burbank Canyon
BALD MOUNTAIN
9205
EAGLE MOUNTAIN
MASON VALLEY
BLACK MTN
4459
MOUNT WILSON
6778
4556
Wilson Canyon
Ranch
LYON COUNTY
MINERAL COUNTY
Smith
Ruins
Smith Valley
4840
Windmill
Mickey Canyon
Pine Grove Flat
GOLD HILL
Spring Gulch
WELLINGTON HILLS
SMITH VALLEY
MOUNT ETNA
8220
Scotts Canyon
SUGARLOAF
Packard Canyon
5256
Ranch
FOURMILE HILL
LORDELL SUMMIT
PINE GROVE SUMMIT
Risue Canyon
Ruins
DESERT CREEK PK
8369
Sand Canyon
Dalzell Canyon
Rickey Canyon
Blackwell Canyon
BLACK MOUNTAIN
Dead Ox Flat
Ranch
Cemetery
ANTELOPE VALLEY
Nye Canyon
MONO COUNTY
DOUGLAS CO
LYON CO
TOIYABE NATIONAL FOREST
BALD MOUNTAIN
9544
SWEETWATER SUMMIT
Walker
Spring Canyon
EAST SISTER
MIDDLE SISTER
10858
SWEETWATER MTNS
ROUND MOUNTAIN
Sweetwater Flat
Ranch
SOUTH SISTER
ANTELOPE PEAK
R 21 E
R 23 E
R 24 E
T 9 N
T 8 N
395
89
11
3
22
2
3C
1C