CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
416 W. Congress St., Suite 100
Tucson, Arizona 85701
602-771-1601
http://www.azgs.az.gov
inquiries@azgs.az.gov

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IN REPLY REFER TO
A MC 89477 thru
A MC 89840 (952)

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
ARIZONA STATE OFFICE
2400 VALLEY BANK CENTER
PHOENIX, ARIZONA 85073

June 9, 1980

Mr. Charles R. Kunkes
LVSR, Box 970
Kingman, Arizona 86401

Dear Mr. Kunkes:

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A MC 89754 thru A MC 89757	Intrepid Fox II - V
A MC 89758	Intreped Fox #6
A MC 89759	Intreped Fox #15
A MC 89760 and A MC 89761	Intrepid Fox 16 & 17
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A MC 89769 thru A MC 89779	Kunkes 1 - 11
A MC 89780	Kunke 12
A MC 89781 and A MC 89782	September Morning I & II
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A MC 89799 and A MC 89800	Lost Lobo Extension #1 - #2
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A MC 89809	John Ray
A MC 89810 thru A MC 89817	John Ray - 1 thru -8-
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A MC 89833 thru A MC 89840	Tiager 1 - 8

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A MC 89563	Box Canyon #87
A MC 89564	Box Canyon #88 Relocation
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A MC 89737 and A MC 89738	Margie #17 and #18
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A MC 89750	Last Hope 10
A MC 89751 and A MC 89752	Last Hope #11 and #12
A MC 89753	Intrepid Fox I
A MC 89754 thru A MC 89756	Intrepid Fox II - IV
A MC 89758	Intreped Fox #6
A MC 89759	Intreped Fox #15
A MC 89760 and A MC 89761	Intrepid Fox 16 and 17
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A MC 89769 thru A MC 89778	Kunkes 1 thru 10
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all these have been relocated

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10	A-1	THRU	A-10	TO B.C ALL ✓	52	347-356
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10	D-1	"	D-10	D-6 ✓	52	361-370
4	E1	"	E-4		52	357-360
4	KING		1 THRU 4		6W	117-124
2	"		9 AND 10 ✓		6W	141-144
4	KUNKES		1 THRU 4		6W	151-158
2	"		5 " 10		6W	201-212
2	"		11 AND 12		311	60-61
1	JOHN RAY				52	338
8	JOHN RAY		1 THRU 8		52	339-346
3	QUEEN		1-3-10		6W	145-150
1	LAST HOPE		1		6W	225-226
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3	"		7 " 9		1	22-27
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LAIMS

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12	BOX CANYON	1 THRU 12	229	179-202
61	" "	13 " 73	233	536-657
1	" "	75	233	660-661
7	" "	77 THRU 83	233	664-677
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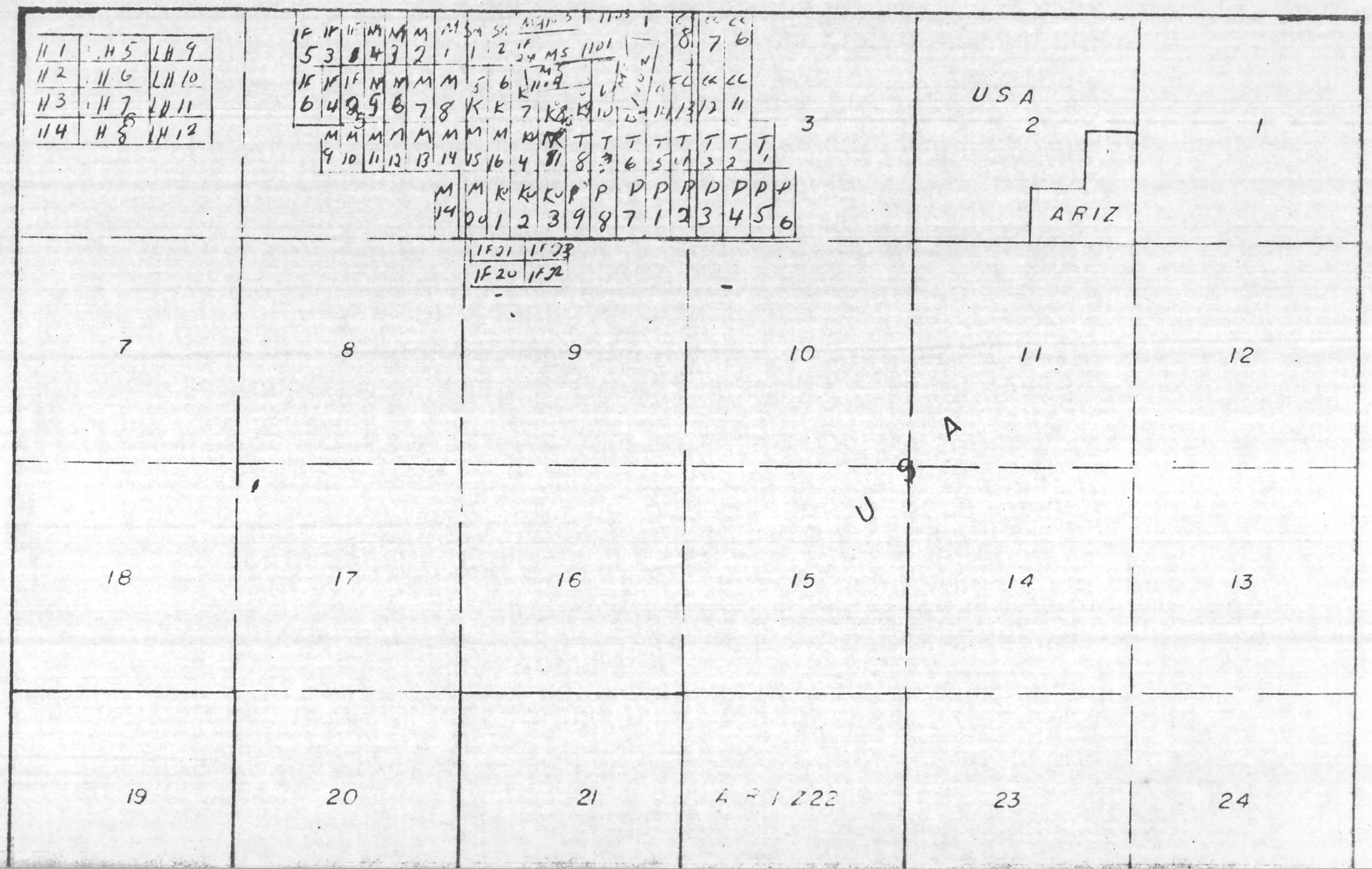
"	86	"	"	730
"	88	"	"	728
"	90	"	"	732
"	91	"	"	734

MOHAVE

27 N - 21 W

TOWNSHIP 26N RANGE 21W



BOOK 652 PAGE 906

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No legal description is provided for Kunke 12, A MC 89780.

Intrepid Fox #15 and 20 through 23, A MC 89759 and A MC 89764 through A MC 89767 were not shown on the map.

Please furnish an accurate description for these claims for our records.

A photocopy of your recorded Affidavit of Labor Performed or Notice of Intent to Hold for the 1979-1980 assessment year should be filed in this office on or before December 30, 1980. To be acceptable, the affidavit must show the work done during the period noon September 1, 1979 to noon September 1, 1980. No fee is required.

Sincerely,

Theresa A. Carmack

Theresa A. Carmack
Acting Chief, Branch of Records
and Data Management

Enclosure:
Regulations 43 CFR 3833

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PHOENIX, ARIZONA 85073

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June 9, 1980

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LVSR, Box 970
Kingman, Arizona 86401

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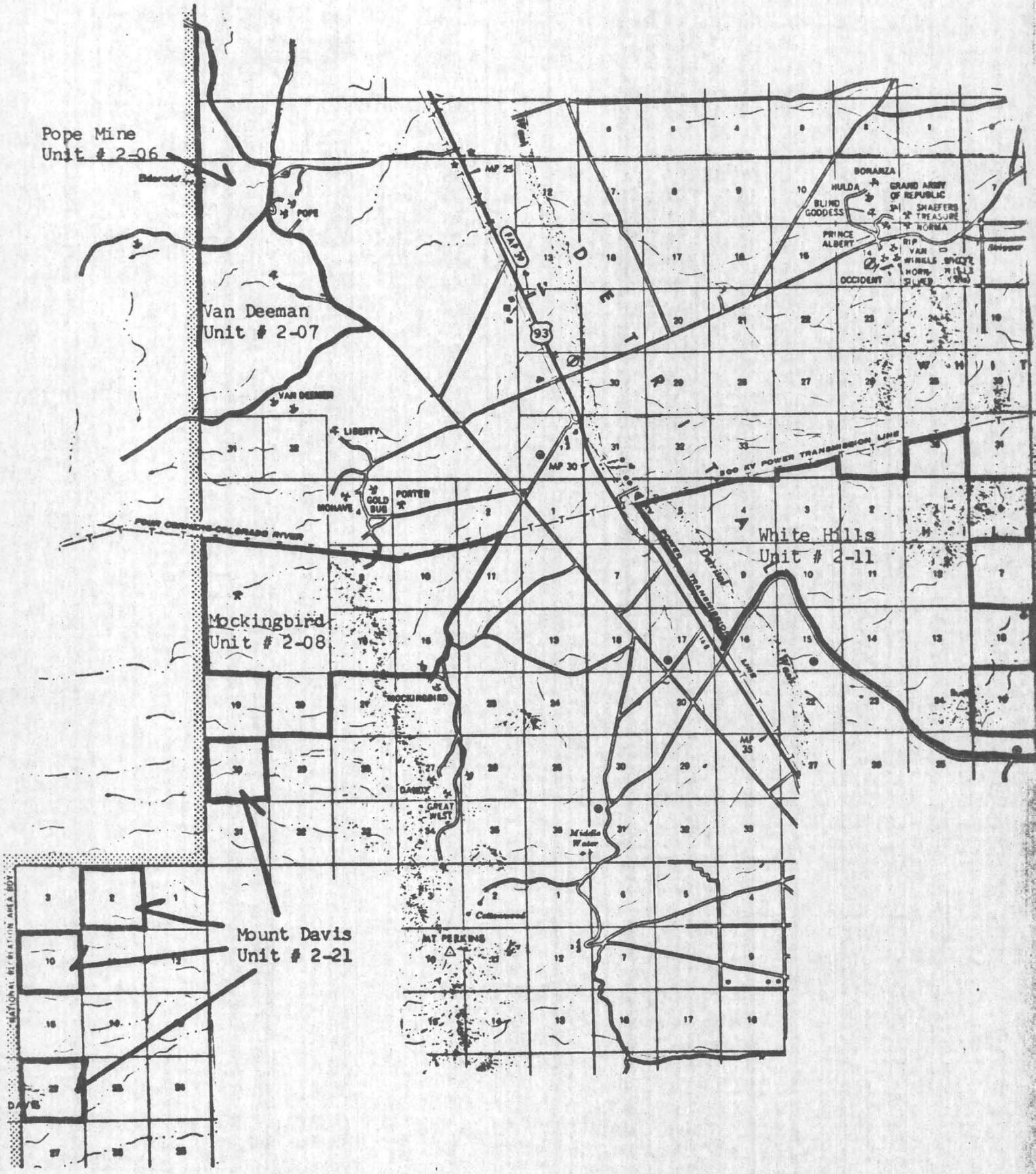
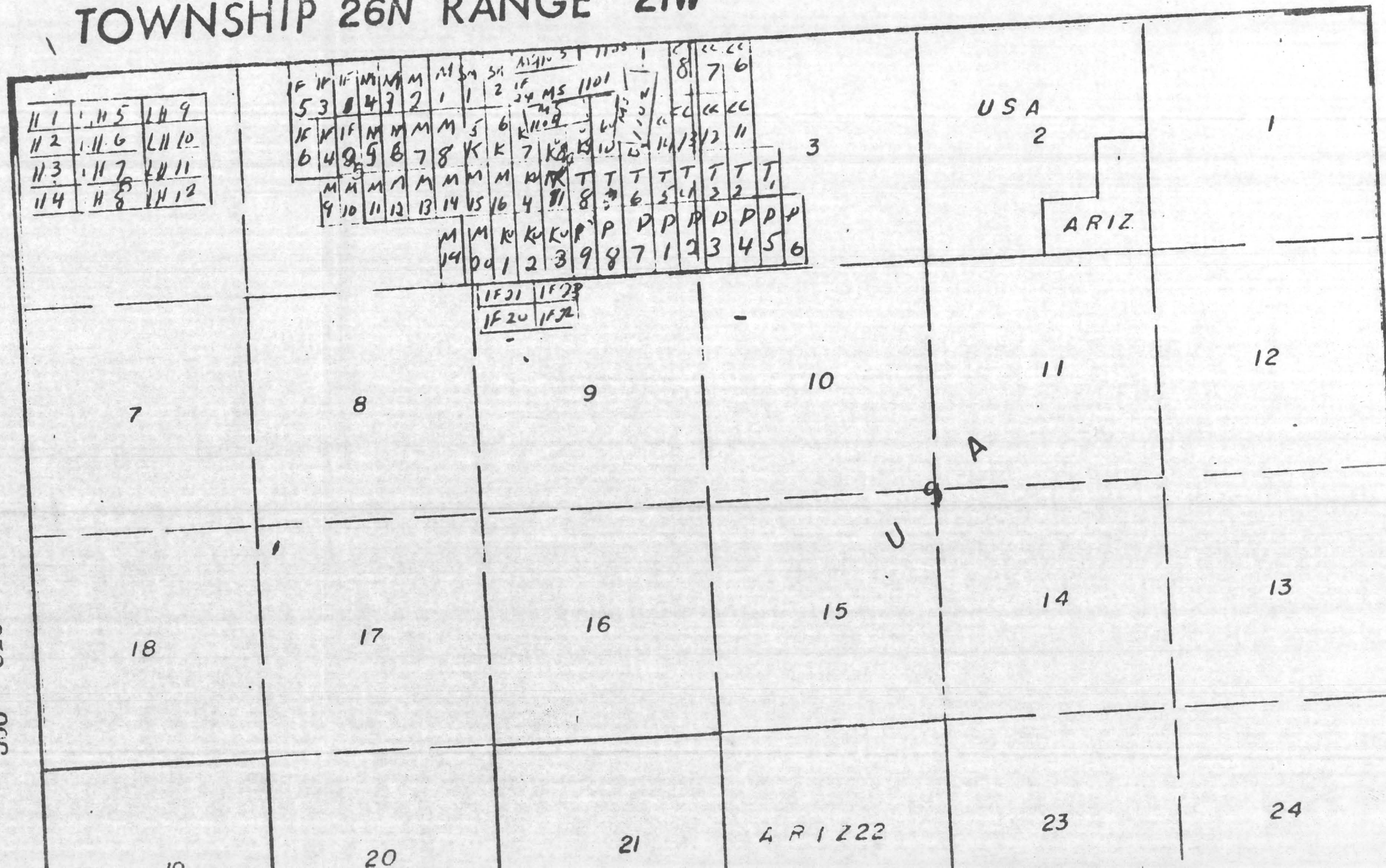

Pope Mine
Unit # 2-06
Van Deeman
Unit # 2-07
Mockingbird
Unit # 2-08
Mount Davis
Unit # 2-21
White Hills
Unit # 2-11
POPE
VAN DEEMAN
LIBERTY
MOHAVE
GOLD BUG
PORTER
MOCKINGBIRD
DAVIDX
GREAT WEST
MT PERKINS
BONANZA
HULDA
GRAND ARMY OF REPUBLIC
BLIND GODDESS
SHAEFERS TREASURE
NORMA
PRINCE ALBERT
RIP VAN WINKLE
OCCIDENT
MP 25
MP 30
MP 35
93
500 KV POWER TRANSMISSION LINE
POWER CORRIDOR-COLORADO RIVER
Middle Water
Cottonwood
NATIONAL RECREATION AREA BDY
DAVIS

TOWNSHIP 26N RANGE 21W



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Cont

List of Assays - Gold Bug Mine.

Taken from Gold Bug No. 2 Claim.

Number.	Description.	Gold.	Silver.
41	Sample Copper ore from small hole about 200 feet North of shaft NO.2.	$24.80	$8.15
42	Same, showing Lead instead of Copper	24.80	10.35
55	From small surface hole of vein 2	5.00	.65
56	Same	6.00	.70
57	Same	8.00	13.40
59	250 feet North of shaft No.2	.40	.50
65	18 inch vein in surface hole near office	Trace	Trace
67	2 inch stringer on surface near tank	4.00	.55
69	6 inch croppings on hill above shaft No.2	6.80	3.40
73	Selected pieces showing copper - from dump	24.80	9.16
	From Shaft No.1.		
1	4 inch streak 50 feet down	252.80	.52
2	8 inches alongside No.1	25.20	.20
14	4 inches 30 feet down	1040.40	5.06
16	Small stringer - 140 foot level	Trace	Trace
17	Same - 15 feet North	"	"
18	Same - in small drift over level	"	"
	From Shaft No.2. 20 Foot Level.		
3	3 feet ore	.60	.55
4	4 inches alongside No.3.	2.40	58.80
5	3 feet ore back of shaft	7.20	.72
6	3 feet ore between 3 and 5	5.60	.74
7	1 foot North end of shaft	85.60	1.78
8	5 feet-11 feet North of shaft	5.60	1.75
9	6 inches alongside No.4	Trace	Trace
10	8 inches ore North end	7.20	.28
11	4 inches same locality	10.40	1.34
12	8 " " " "	29.60	1.06
13	10 " " " "	4.60	1.14
14	6 " " "	10.40	.64
	70 Foot Level.		
19	3 feet ore in raise	4.80	.72
20	1 foot ore in roof, 20 feet N. No.19.	6.40	3.48
21	1 foot ore between No19 and No.20.	108.00	Lost
	140 Foot Level.		
45	6 inches ore North end	12.80	.98
46	20 " " " "	12.80	.68
47	6 " " " "	140.00	5.40
48	24 " " " "	18.00	1.00
50	12 " " " "	54.00	2.15
	240 Foot Level.		
22	1 foot ore 30 feet North of shaft	5.80	.30
23	1 " " 20 " " " "	1.60	.50
24	1 " " 10 " " " "	1.60	.40
25	1 " " South of shaft	3.00	.00
26	3 feet ore 20 feet South of shaft	2.00	.70
27	2 " " 30 " " " "	Lost in Parting.	
28	8 inches ore 33 feet North of shaft	2.00	.30
29	24 " " " alongside No.27	2.00	.40
30	18 " " 40 feet South of shaft	6.00	.20
31	18 " " 50 " " " "	.40	.40
32	Selected pieces N.drift showing iron & galena		3.25
34	" " " " " " iron pyrite	1.20	7.25
35	" " " " " " Cu. and Pb.	3.00	20.00
37	20 inches ore	Trace	Trace
51	Grab from car of rock	"	"
Sept. 9	Thin layer west wall near floor N. drift	4.00	14.00
10	Same	3.20	

Copy.

Page 2. List of Assays - Gold Bug Mine.

Sept.	11	Same near roof	3.20	
		" floor	2.40	
"	12	Special piece from car showing free gold	38.00	
"	11	Small vein of footwall	1.20	
	12	Same, showing molybdate	4.80	
		Scale sample from upper part of 3# vein - hanging wall	116.00	
		Same, but near floor	26.00	
		Streak carrying iron sulphide	52.60	.60
		Car sample	13.60	.60
		" "	1.20	
	21			
No.	75	Quartz with vanadate - North	16.80	
	76	Mahogany quartz	216.00	
Sept	23			
	83	General sample 18 inches breast	5.60	
	25			
	87	" " "	8.00	
	29			
	91	West side vein - breast	1.20	
	92	From roof at face	3.20	17.00
	93	East side at face	5.60	6.00
Oct	26			
	103	Sample 3 inches quartz North	15.20	6.67
		Specimen from rock (car)	20.00	12.06

<u>290 Foot Level.</u>

	38	20 inches ore bottom of shaft	Trace	Trace
	39	Selected pieces showing galena	"	"
	40	Another sample of same	"	"
	44	Orr's sample showing galena	48.00	9.00
	52	Grab from car of rock	4.00	1.05
	53	Selected sample	2.00	.65
	54	" "	Trace	Trace
	58	Car "	2.00	.55
	65	18 inches vein	Trace	Trace
Sept.		Very porous quartz	217.60	3.00
		Same	200.00	2.50
		Milky quartz with galena	48.00	1.50
		Porous quartz mahogany colored	87.20	1.75
		With red oxides	24.00	.90
		Mahogany carrying iron sulphide (massive)	2.60	.50
		Mahogany colored quartz	1.60	.75
		Grab from car - all fine stuff	7.80	.80
		6 inches middle face of drift	20.80	
		Left of face - 6 inches wide	608.00	
Sept	6	Right - top highly oxidized	12.00	
		Shaley ore	6.40	
		Dark ore	36.00	
		Large piece showing free gold on one side	120.80	
		High wall near face	.80	
		Grab sample from muck	8.80	
		Decomposed quartz	2.40	
		Same "	13.60	
Oct	1	58 feet in on S. drift ore showing vanadate	150.00	
		Same "	300.00	
		Small bunch of ore selected over	40,000.00	
Sept	22			
	74	Very porous vari-colored quartz	60.00	
	77	Number 1 ore South	152.80	
	78	Quartz at right of ore - same locality	20.00	
	79	Quartz on hanging wall side of ore	20.00	
Sept	22			
	80	Best streak breast - South	142.40	
	81	General sample 3 feet of vein	5.20	
Sept	23			
	82	Best streak	152.80	20.00

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List of Assays - Gold Bug Mine.

Sept.	83			
	84	General sample east half vein face	2.40	
	85	" " " west " " "	1.20	
	86	Fine pieces ore from platform	214.00	
Sept.	20			
	88	East part of vein	1.20	
	89	Middle of vein	76.00	
	90	West part of vein	49.60	
Oct.	26			
	94	Specimen of sulphide	228.00	
	95	Sample from ore dump showing vanadate	44.00	.80
	96	8 inches ore - South breast	28.00	.80
	97	10 inches floor 10 feet back from breast	10.00	.75
	98	8 " wall 15 " " " "	8.00	10.12
	99	12 " hard white quartz 25' " "	2.00	
	100	16 " " " " 10' " "	3.20	
	101	16 " " " " 15' " "	42.00	
	102	Spec. crystallized hard Qtz. showing pyrite	56.00	1.20
	104	" thin quartz showing vanadium	83.20	1.97
	105	" " " " pyrite, hematite and copper	13.60	1.36
	106	" hard " with galena	42.00	2.30
	107	" " " " " showing gold	184.00	2.20
	108	" soft white quartz showing fine gold	351.20	2.47
	109	" hard " " " " much galena	108.80	2.68
	110	" soft " " " " galena	188.80	5.78
	111	" " " " " " gold	1628.00	14.35
Oct.	27			
	113	" thin hard quartz from dump, showing galena, pyrite, and vanadate of lead	128.00	
	114	Yellow and red stained quartz	6.40	
	115	12 inches in center North 290 Level	4.00	
	116	8 inches East wall " " "	9.80	
	117	16 " opposite shaft	4.00	
	118	18 " 10 feet south of shaft	1.30	
	119	20 " 20 " " " " overhead	6.40	
	120	12 " " " " " " East wall	2.80	
	121	10 " 30 " " " " " overhead	4.80	
	122	10 " " " " " " East wall	8.00	
	123	46 " 40 " " " "	58.00	
	124	18 " 45 " " " "	36.80	
	125	16 " 50 " " " "	11.20	
	126	30 " 60 " " " " East wall	2.80	
	127	12 " " " " " " center	58.00	
	128	20 " " " " " " West wall	26.80	
	129	8 " 20 " from face of West wall	62.80	
	130	16 " 10 " " " " "	7.20	
	131	12 " 12 " " " " "	4.00	
	132	10 " in breast North	.80	
	133	8 " West wall 20 feet from face	16.00	
	134	Grab sample from breast trestle dump (fines)	6.40	
	135	Specimen from bucket	5.20	
	136	12 inches West wall 15 feet from face	12.40	
	137	20 inches white quartz 6 feet from face		
	138	16 " " " " 10 " " " West wall		
	139	16 " brown " near face	.80	
	140	Grab sample from 16 inches white quartz	5.60	
	141	Spec. hard quartz show. large pyrite crystal.	7.20	
	142	Rich spec. from best streak	27,953.80	266.00
	143	8 inches qtz 10 feet from face West wall	Trace	
	144	16 " white streak near face	"	
	145	18 " West wall 5 feet from face	51.20	
	146	16 " opposite shaft	2.00	
	147	Hard quartz showing copper-stained galena	2.00	
	148	18 inches West wall 10 feet from face	11.20	
	149			

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List of Assays - Gold Bug Mine.

149	Specimen from 290 Level showing considerable pyrite and hard quartz	10.40	

Specimens assayed were certain kinds of ore, not showing visible gold except in three instances, tested for the purpose of ascertaining how to classify the ore in sorting for shipment.

Samples from the Buena Vista Claim.

53	Selected, showing copper oxide, from location shaft	19.20	4.44
70	8 inches, bottom 10 foot hole	12.00	1.25
72	24 " ore - in tunnel (8)	4.00	.70
75	Selected, showing mineral	Trace	Trace

Samples from Rattlesnake Claim.

68	Lump sample	Trace	Trace

Samples from Mariposa Claim.

60	3 inches near face of tunnel (14)	4.80	.20
61	8 " " " " "	Trace	Trace
62	6 " ore 20 feet from face of tunnel	"	"
63	6 " mouth of tunnel	22.00	.65
64	6 " in surface hole South end of claim	Trace	Trace

SAMPLING OF 80 FOOT ORE-SHOOT, 290 LEVEL, GOLD BUG MINE.

CALCULATIONS.

~~[illegible] from shaft 20" X 6.40 = 128.00~~
~~12" X 2.80 = 33.60~~
~~32 into 161.60 = $5.05 average value 32 inches~~

80' from shaft 20" X 6.40 = 128.00
12" X 2.80 = 33.60
32" into 161.60 = $5.05 average value 32 inches

20' from shaft 10" X 4.80 = 48.00
10" X 8.00 = 80.00
20" into 128.00 = $6.40 average value 20 inches

40' from shaft 48" $58.00 average value 48 inches
~~$58.00 average value 48 inches~~
45' from shaft 18" $36.80 average value 18" inches

50' from shaft 12" X 58.00 = 696.00
20" X 26.80 = 536.00
32 into 1232.00 = 38.50 average value 32 inches

65' from shaft 4" X 291.35 = 1165.40
in roof 48" X 14.50 = 696.00
52 into 1861.40 35.79 " " 52 "

70' from shaft 8" X 34.40 = 275.20
in roof 12" X 27.80 = 333.60
20 608.80 = 30.44 " " 20 "

~~[illegible]~~

Copy.
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List of Assays - Gold Bug Mine

70' from shaft in floor	8"	X 11.15	= 89.20		
	10"	X 6.15	= 61.50		
	12"	X 9.90	= 118.80		
	10"	X 9.40	= 94.00		
	40"	into	363.50	= $9.08	average value 40 inches.
75' from shaft	18"	X 10.50	= 189.00		
	16"	X 9.45	= 151.20		
	12"	X 42.40	= 508.80		
	46"	into	849.00	18.45	" " 46 "
75' from shaft in floor	42"			7.88	" " 42 "
80' from shaft	6"	X 18.20	= 109.20		
	8"	X 44.25	= 354.00		
	30"	X 11.49	= 344.70		
	44"	into	807.90	18.36	" " 44 "
80' from shaft in floor	32"	X 13.98	= 447.36		
	4"	X 32.06	= 128.24		
	36"	into	576.60	15.99	" " 36 "
85' from shaft in roof	12"	X 39.60	= 475.20		
	18"	X 7.07	= 127.25		
	12"	X 45.96	= 551.52		
	42"	into	1153.98	27.47	" " 42 "
85' from shaft in floor	8"	X 9.12	= 72.96		
	18"	X 3.95	= 71.10		
	26"	into	144.06	5.54	" " 26 "
90' from shaft in roof	24"			37.80	" " 24 "
90' from shaft in floor	24"	X 2.20	= 52.80		
	12"	X 26.66	= 319.66		
	36"	into	372.72	10.35	" " 36 "
95' from shaft in roof	16"	X 5.16	= 82.80		
	6"	X 102.00	= 612.00		
	22"	into	694.80	31.58	" " 22 "
100' from shaft in floor	24"	X 2.40	= 57.50		
	48"	X 2.35	= 112.80		
	72"	into	170.40	2.36	" " 72 "
100' from shaft in roof	14"			9.26	" " 14 "

21 samples 714" into $14,375.52 = 20.13 of ore shoot

Length of ore shoot - 80 feet.

Average width of pay streak - 34 inches.

Average value per ton 21 sections sampled - $20.13

Width vein varies from 4 feet to 8 feet, averaging 6½ feet, and widening very rapidly downward.

Copy of sample - Gold Bug Mine.

The Gold Bug district is situated near the summit of the range about three miles north of the Mocking Bird district, three miles south of Eldorado Pass, and thirty milles northwest of Chloride. The only mine is the Gold Bug Mine, which is developed by several shafts and drifts to a depth of 300 feet.

The deposits consist chiefly of two main veins situated about 22 feet apart in a doubtful volcanic rock, possibly a minette similar to that of the Mocking Bird Mine. The veins dip steeply to the northeast. The ore is rich, gold-bearing quartz, with a little silver, and favors the hanging wall, where in part it is associated with a diorite (?) dike. Much ore is said to remain in the mine.

Mr. H. J. Marmein, representing Gold Bug Mining Co., has kindly given the following historical notes and account of recent development work.

The property consists of several patented claims. The first discovery of gold on these claims was made in 1892 by two Mormon miners, and the exceedingly rich ore taken out at the very beginning of work attracted much attention. In 1893, the property was sold for a large sum and was then worked in a desultory way for two years; during this time about 50 tons of selected ore was shipped, which netted $43,000.00, or about $860.00 per ton in car lots, after deducting all transportation and smelter charges. The owner

Geology

A very complete study of the geology of Mohave County appears in Bulletin 397 of the U.S.Geological Survey, 1909, Particular mention being made of the Gold Bug Mine on Pages 217 and 218.

Another quotation from this same report, beginning page 48, paragraph 2, is also interesting, remembering that the Gold Bug Mine is in the Black Mountains of Mohave County, as follows:

"The veins of the Black Mountains are filled fissure veins, with a general Northerly, or Northwesterly strike, and steep dip. The [illegible] filling [illegible] quartz, adularia, and calcite, and in many cases [illegible] evidence that the first two minerals have replaced the cal- [illegible] hot solutions. The values are [illegible] probably [illegible] gold which, as a rule, is finely divided and almost exclusively [illegible] by the cyanide process. The quartz filling can best be recovered by the [illegible] country rocks. The veins cut through [illegible] many inclusions of the [illegible] mass of Tertiary volcanic rocks which characterize the [illegible] doubtedly continue to depth into the underlying pre- [illegible] rocks. The oxidation extends to a depth of 600 or [illegible] a rule, no sulphides are found. The water level is [illegible] below the surface. These deposits have suffered [illegible] since their deposition. They bear [illegible] other close to the surface by hot [illegible] at the close of igneous [illegible] through the lay[illegible]

#1 REFE LAFFY ON MARGIE I

#2 GOLD CUP ON SIDE OF PIOLET KNOB

#3 GOLDBUG #1 ORIGINAL ONE

#4 GOLDBUG #2 [illegible] WORK

#5 POWERLINE - BOTTOM OF INCLINE SHAFT

#6 RIVER WASH #1

#7 MOHAWK MINE - INCLINE + 1 SHAFT ON VEIN

#8 MOHAWK MINE TOWER DRILL PAD LAST TIME

#9 SILVER VALLEY MINE + DRILLING NORTH OF POWER LINE

#10 [illegible] 240 FEET FROM ROAD

#11 POWERLINE #3 ON TOP OF CREST WORK WE GOT STUCK

#12 VANDERBILT [illegible]

16 - GOLD BUG - [illegible] - 1 LEVEL -

17 - VANDERMOR OPEN PIT & TUNNEL WITH WIZ.

18 - OLD MARBLE CLAIM - TUNNEL + STOPE + ORE PILE

19 - RED CAP - OFF PARK DISTRICT LINE -

20 - OLD MARBLE - RANDOM

21 - [illegible]

#22 VANDERMOR - [illegible] PIT

23 - RED CAP [illegible] - [illegible] TO EAST [illegible]

24 - [illegible]

25 - [illegible] - [illegible] VIEW OF ARC - SHAFT

26 - [illegible] MONUMENT - ON TOP HILL EAST OF [illegible]

27 - [illegible]

28 - RELAY - [illegible] BUG AREA BY GOB-UNIT

29 - GOLDEN ARC - [illegible] - SHAFT 45'

30 - [illegible] - [illegible] BY POWERLINE SWITCH PIPE

31 - [illegible] BY CASTLE -

Lake Mohave *ASSAYING* & MINING
PAD LEACHING
P. O. BOX 607 DOLAN SPRINGS ARIZ. 86441

A series of tests were run on ore taken from the Last Hope claims. This area was chosen because sampling indicated a large low grade ore deposit. Samples were split and Assayed by both Aqua Regia and Sodium Cyanide..

Results determined by Atomic Absortion. A heated NaCN solution with 20 minute exposure extracted 50% of the gold indicated by the Aqua Regia test.

Ore averages .10 oz/ton Au in this area. The next tsting done was a 100/lb barrel test. A measured amount of 2 lb/ton NaCn solution (pH corrected by Ca $(OH)_2$ was circulated thru the ore for 24 hours.

NaCn Consumed:	25%
Au Extracted:	65%

Another Leach Test was done to determine amenability of the ore to heap leaching. Total test results are included on another sheet.

Exposure Time:	72 hours
NaCn Consumed:	50%
Au Extracted:	30%

Lake Mohave ASSAYING & MINING
PAD LEACHING
P. O. BOX 607 DOLAN SPRINGS ARIZ. 86441

#1 HEAP LEACH TEST: LAST HOPES ORE. Feb 1, 1981

Ore on pad...1700 lbs (not ground or crushed)
Water in circuit...500 lbs
CaO added...@ 2 lb/ton
NaCN added...@ 2 lb/ton
Temp H_2O...45°F
Carbon...300 gms of 6-16 Westates coconut shell
Heads....10 (one tenth) au
Tails... .06 au
Extraction... 40%
Solution flow...one gpm
NaCn consumption...1.5 lb/ton
pH of water...6.5
pH of solution...maintained at 10.5
Duration of test...72 hours
Pregnant sol...average .003 au
Barren sol...average tr.

The test was concluded when the pregnant solution was too low in au to detect by atomic absorption. It was decided to crush the ore and releach it.

Lake Mohave ASSAYING & MINING
PAD LEACHING
P. O. BOX 607 DOLAN SPRINGS ARIZ. 86441

#2 HEAP LEACH TEST: LAST HOPE ORE. Feb 1, 1981

Ore on pad...1700 lbs ground to 1 inch
Water in circuit...500 lbs
CaO added...@ .5 lb/ton
NaCN added...@ 2 lb/ton
Temp H_2O ...42° F (raised to 70°F by heating barren tank)
Carbon...300 gms of 6-16 Westates coconut shell
Heads .06 au
Tails .006 au
Extraction... 90%
Duration of test...72 hours.

This ore was the same ore which had been tested without crushing. All results wereassayed from the carbon, preg and barren solutions, heads & tails. The percent of extraction does seem too high.

Lake Mohave ASSAYING & MINING
PAD LEACHING
P. O. BOX 607 DOLAN SPRINGS ARIZ. 86441

Feb 16, 1981

100 lb Barrel Test Margie Dump, Kunkes Property.

One hundred pounds of ore from the Margie claims was placed in a barrel and sodium cyanide sol was circulated thru into a bucket and then pumped back thru the barrel. Results were as follows.

Wt of ore.....100 lbs
wt of H_2O.....60 lbs
NaCN added....@ 4 lb/ton
CaO added.....@ 2 lb/ton
resultant pH..10.5
test on.....12:30 pm 2/8/81
Heads..... .45 au (ag not checked)
flow 3 gpm
pregnant solution @2:30 pm 2/8/81... .06 au oz/ton 1.0 ag

This test had to prematurely stopped due to other commitmants. All that can be said is that the ore will leach to some extent,and profitably. A fairly extensive exploration program is called for even on this small portion of the Kunkes property.

Lake Mohave ASSAYING & MINING
PAD LEACHING
P. O. BOX 607 DOLAN SPRINGS ARIZ. 86441

Feb 16, 1981

Assays from Last Hope Claims. All results in oz/ton au

1. nil
2. .10
3. .12
4. .06
5. .13
6. .13
7. .10
8. .12
9. nil
10. .12
11. .10
12. nil
13. .16
14. nil
15. .10
16. .10
17. .12
18. nil
.19. .05
20. 3.25

PAD LEACHING

P. O. BOX 607 DOLAN SPRINGS ARIZ. 86441

Feb 16, 19

Assays from Last Hope claims.

All assays in oz/ton Au

1. .07
2. .08
3. .07
4. .07
5. .06
6. .08
7. .14
8. .14
9. .08
10. .07
11. .06
12. [illegible]
13. .08

Sir:

This is an answer to those who have contacted me as a result of my advertisements. I am writing this because my poor health and the busy schedule of the engineer have made it impossible for us to get together. It has also stopped me from doing the hard work of drilling, caterpiller work and grading that I have usually done.

Acting upon the advice of my doctor and the concurrence of my wife I am going to proceed with my plans to sell or lease my claims. In either case the lessee or buyer will assume the responsibility for the necessary assesment work. My wife and I would consider a partnership should all parties concerned come to an agreement.

Now to get down to some of the things you may want to know: There are approximately 400 contiguous unpatended claims belonging to me. There are some six patented claims belonging to a man named Weaver and these six claims he is asking $300,000.00. The Bureau of Mines wrote a paper on my claims which are surrounded by the above mentioned 6. There are also six unpatented claims held by three private parties all of whom I know. It is possible to acquire these claims for a reasonable amount. I know about every foot for about ten square miles and there are approximately 100 more claims that could be taken for protection. This gives you an idea of areas that make up some 8,000 acres or more. I will now give you my description of each area:

AREA I

This part was leased to UTAH International which ran three I.P. drill holes for which I have the logs. There were a number of assessment holes for which I have no logs but do have some air and ground geological surveys. They had a surveyor do over 200 claims as well as mine so some parts have two sets of posts. UTAH was then working on seven others when the price of copper went down and they quit the mines quit deeded them to us. This is recorded in the Kingman Court House. They said they may be interested later on but I have had no further word from them. One of the points that they interested in is a porphyry 3,000 feet wide. A drill hole on it was 484 feet deep and 25-50 feet which produced .03% to .06% ounces of gold per ton. These were the only areas assessed for gold on the log. The sulfides averaged 1 to 5%. A geologist from a large company said the drilling would have to be over 1,000 feet. This area has an oxide zone for 200 feet which showed copper was present at one time. There are some small shafts and diggings in the area. UTAH had hoped to hit it but we believe they didn't go deep enough.

The other two holes were 300 ft. each and there are copper showings in different spots on these claims. We also hit water in three holes which may take care of the water problem. I also have a number of shallow holes but not an assay.

AREA II (Lobo)

I'm naming each part an area as a point of reference. There are a lot more but I don't have all the information with me. The Lobo claims have a 50' tunnel from which we took five wall assays. They average .05% to .9% oz. of gold and ½oz. silver to the ton, and in the copper you can see the oxides. There were three knowledgeable miners who tried to work it but they ran out of money. I still know one of them and the one who did their drilling. He told me it is about 1500 feet long and 200 feet or more wide and has $20.00 gold per ton and ½ oz. silver and has approximately .75% copper. I took samples in the wash in front of it and got .03 to .06 oz. per ton of gold. This could be a larger deposit but it is an open pit which needs grid work to prove it.

Right next to this is the Van Deemen mine area which is on one end of a fault or slip zone one of which is a mile long. There are shafts, tunnels and even a small open pit. I have taken grab samples off the dump and gotten .2 oz. of gold to the ton. This mine is on the maps and there is a possibility that the washes have placer in them. This would need further development and a lot of work to see what's in it.

AREA III

This is to the south of the Van Deemen area. There are some large out croppings of quarts with iron oxide. The shaft hasn't been examined as there are a number of small diggings and some good sized veins showing. This area is on the north end of this slip or fault and, from here over an area of 3/4 mile, are small diggings where I have found silver on the ground and the veins that run east and west into the Gold Cup runs .3 oz. gold and up to 12 oz. silver per ton. When I opened them up there were no roads and I blasted and used a caterpillar to make them. The south end of this contains silver and I got 24 ozs. of what looks like a small ore pile and it had .3 oz. gold. There were also more diggings in this area and the mines looked interesting.

AREA IV

Red Cap mine is on it. A shaft with a small vein of borrite with traces of lead as crystals and arsenic. I also sent in some samples and got 12 ozs. silver and 1½ % strotium per ton. From another and very large out-cropping (over 500 feet) I got .03 ozs. gold per ton. Of course there are a lot of cuts and diggings that I'm not putting in because I don't remember the details of all of them but this area is well-mineralized.

AREA V

Lyle Canyon has some old shafts and I got 1½ ozs. gold per ton off the dumps. This is another fault zone with digging on each side of it. It is over ½ mile long and had no road until I opened it up.

AREA VI

Known as the Gold Bug area, this area has six patented claims-not mine- but I have the original gold bug which wasn't patented and it samples out at 4 ozs. gold per ton. Now around the apex, some 90 acres, I have all the claims and there are diggings all the way around it. There is a mine report on it that was made around 1900 and I have part of it.

To the north is Mohave mine and it is on the map. The vein is approximately two feet wide with three shafts. There are some other shafts and diggings near and there are a number of mineralized veins in the area.

AREA VII

(Margie Claims) I was told that this area is hydro-thermal and should be drilled. It is approximately a 500 foot spot a foot or so showing copper in it. There is also one small lead vein and on one hole I drilled I got rare earths; some grab samples gave me 1½ ozs. gold and I also got ½ oz. silver. I also found two nuggets in this area which is rare because the gold is all fine when you find it.

AREA VIII

In order not to make this too long, this area runs to the south of the claims. There are 12 ozs. of silver per ton and large dumps with shafts. There are also rumors of 100 ozs. per ton of silver taken out 60 years ago by Floyd Brown's uncle. There is a silver mine owned by a fellow which we could get for next to nothing or take it by law. This area and the Golden Age mine and Porter have large veins of gas showing. Also there is gold and silver in this area.

I could go on and on but the best thing would be for you to call me. Then, after talking, if you are interested I will pick you up in either Las Vegas or Kingman and drive you to see it. The area is 28 miles south of Hoover dam in N.W. Arizona.

I have a cafe called the Boulder Dam on highway 93 so, if you should desire further information, please call or write. I would prefer to have you call.

Thank you for your time and interest!

Sincerely,

Charles R. Kunkes

Charles R. Kunkes

% Boulder Inn
L.V.S.R. Box 970
Kingman, Arizona 86401
Phone: (602) 767-3348

Geology

A very complete study of the geology of Mohave County appears in Bulletin 397 of the U.S.Geological Survey, 1909, Particular mention being made of the Gold Bug Mine on Pages 217 and 218.
Another quotation from this same report, beginning page 48, paragraph 2, is also interesting, remembering that the Gold Bug Mine is in the Black Mountains of Mohave County, as follows:
"The veins of the Black Mountains are filled fissure veins, with a general Northerly, or Northwesterly strike, and steep dip. The fissure filling is quartz, adularia, and calcite, and in many cases there is evidence that the first two minerals have replaced the calcite , probably through the medium of hot solutions. The values are almost exclusively in gold which, as a rule, is finely divided and can best be recovered by the cyanide process. The quartz filling contains many inclusions of the country rocks. The veins cut through the great mass of Tertiary volcanic rocks which characterize the range but undoubtedly continue to depth into the underlying pre-Cambrian granitic rocks. The oxidation extends to a depth of 600 or 700 feet, and as a rule, no sulphides are found. The water level is at least 700 feet below the surface. These deposits have suffered comparatively little erosion since their deposition. They bear evidence of having been formed rather close to the surface by hot waters which ascended through the lavas at the close of igneous activities."

The above was coppied from the Bulletin referred to above.

Arizona Testing Laboratories

817 West Madison · Phoenix, Arizona 85007 · Telephone 254-6181

For Mr. Douglas K. Martin
4728 North 21st Avenue
Phoenix, Arizona 85015

Date April 28, 1981

ASSAY CERTIFICATE

LAB NO.	IDENTIFICATION	OZ. PER TON		PERCENTAGES			
		GOLD	SILVER	COPPER			
1293	R-1 Kunkes	Trace	0.15				
	R-2 Kunkes	Trace	0.15				

Respectfully submitted,

ARIZONA TESTING LABORATORIES

Claude E. McLean, Jr.

Registered Assayer
CERTIFICATE No. 6258
CLAUDE EUGENE MCLEAN, JR.
Signed 4/28/81
ARIZONA, U.S.A.

Silver State Minerals Testing Laboratory

ESTABLISHED 1946

6274 EAST CHARLESTON BOULEVARD

PHONE 452-3299

Mailing Address
P. O. Box 14850
LAS VEGAS, NEVADA 89114

FIRE ASSAYING
ATOMIC ABSORPTON
FLAME EMISSION
CHEMICAL ANALYSIS

Specializing in
PLATINUM GROUP ELEMENTS

MINERAL ANALYSIS
METALLURGICAL ANALYSIS
WATER TESTING

Jan. 13,1978
ASSAY NO. 78/A/4

Mr. C. Kunkes
Las Vegas Star Rt.,
P.O.Box 970
Kingman, Arizona 86401

ASSAY REPORT

MATERIAL:rock.
ASSAYED FOR:gold,silver. GOLD 175.00 oz

APX - 5.00 SILVER

SAMPLE NO.	GOLD	SILVER
LB-1	0.009oz.troy/ton	0.20 oz.troy/ton
2	nil	0.21
3	0.024 oz.troy/ton	0.45
4	0.024	0.34
5	0.016	0.28
6	0.009	0.18
Gold Bug Veiw	0.061 OFFSIDE OF SMALL HILL	0.40
Red Cap	0.021	0.52

LOW BOW BY TUNNEL - THESE ARE FROM WASH

FROM WASH MINOR STONE & SAND - APX 1 FOOT DEEP SAMPLES

ROAD TO VAN DEERMIE

LOW BOW EMPTY INTO.

THEY ARE A FILLED IN SHAFT AND MY ROAD GOING SOUTH

THIS IS A LARGE OUT CROP OF RED + WHITE ROCK A DRILL HOLE IS IN A WASH IN FRONT OF IT. THEY ARE 100,000 TON OF IT THE CLAIM IS LAST CHANCE FOR 2 MORE - MAGIC + I HAVE IT NEXT TO PARK ARETIN.

2.60

ASSAYER
Julius Bonocchi
JULIUS BONOCCHI

3.68
2.60
6.28 Red cap

	AU	AG	
6.B 061	6.75	2	= 8.75
L.B 3 - .024	= 4.20	225 ~~2.75~~	= 6.45
L.B 4 .024	= 4.20	1.70 ~~2.75~~	~~5.45~~ 5.90

THIS REPORT IS SUBMITTED TO THE ADDRESSED CLIENT FOR HIS EXCLUSIVE USE. AS A PROTECTION TO THE CLIENT, THE PUBLIC AND THIS LABORATORY, THIS REPORT MAY NOT BE USED IN WHOLE OR IN PART FOR ADVERTISING, PUBLICITY OR PROMOTION WITHOUT WRITTEN AUTHORIZATION.

Silver State Minerals Testing Laboratory

ESTABLISHED 1948

6274 EAST CHARLESTON BOULEVARD

PHONE 452-3299

Mailing Address
P. O. Box 14850
LAS VEGAS, NEVADA 89114

FIRE ASSAYING
ATOMIC ABSORPTON
FLAME EMISSION
CHEMICAL ANALYSIS

Specializing in
PLATINUM GROUP ELEMENTS

MINERAL ANALYSIS
METALLURGICAL ANALYSIS
WATER TESTING

Dec.9,1977
ASSAY NO. 77N/9

Mr. C. Kunkes
Las Vegas Star Rt.,Box 970
Kingman,Arizona 86401

ASSAY REPORT

MATERIAL:rock.
ASSAYED FOR:gold,silver.

	SAMPLE NO.	GOLD	SILVER	
IN FRONT TUNNEL ON ROAD	1 low Bin	0.063 oz.troy/ton	0.57 oz.troy/ton	low B. —
	2	0.031	0.60	BLACK IRON
	3	0.043 THESE ARE	0.70	" "
	4	0.075 ON THE	24.09	GOD MANDIA CLAY THIN GIA B. PILE
	5 (Vandeum next to Rd.)	0.090 1500 FOOT FAULT	0.59	TUNNEL NEXT TO ROAD UNDER OF ARCH
	6 (off dump)	0.124 INWASH	1.76	TO LEFT OF OPEN PIT IN DUMP
	7 (digging N. of hill over old Rd.)	0.143	3.59	GOING TO OPEN PIT
	8 (Vo-open pit)	0.180	0.64	VAN DERMOLE BY OPEN PIT

ASSAYER

JULIUS BONOCCHI

THESE ARE AT RANDON

OFF GOUND OR DIGGING, SCRAP PILES

THIS REPORT IS SUBMITTED TO THE ADDRESSED CLIENT FOR HIS EXCLUSIVE USE. AS A PROTECTION TO THE CLIENT, THE PUBLIC AND THIS LABORATORY, THIS REPORT MAY NOT BE USED IN WHOLE OR IN PART FOR ADVERTISING, PUBLICITY OR PROMOTION WITHOUT WRITTEN AUTHORIZATION.

Silver State Minerals Testing Laboratory

ESTABLISHED 1946

6274 EAST CHARLESTON BOULEVARD

PHONE 452-3299

Mailing Address
P. O. Box 14850
LAS VEGAS, NEVADA 89114

FIRE ASSAYING
ATOMIC ABSORPTON
FLAME EMISSION
CHEMICAL ANALYSIS

Specializing in
PLATINUM GROUP ELEMENTS

MINERAL ANALYSIS
METALLURGICAL ANALYSIS
WATER TESTING

KORCH = near Jewelle Bar

May 31,1976

ASSAY NO.76/H/4

Mr. Nick Milardo
161 Albert Apt. #1
Las Vegas, Nevada 89109

ASSAY REPORT

MATERIAL:rock&gravel.

ASSAYED FOR: gold,silver.

OVER A MILE LONG FAULT

SAMPLE NO.	GOLD	SILVER
1	0.346 oz.troy/ton	0.08 oz.troy/ton
2	trace	0.14
3	0.028 oz.troy/ton	0.13
4	0.050 ON 1500 FT. FAULT	0.30
5	0.076	0.23

ASSAYER
Julius Bonocchi
JULIUS BONOCCHI

#1 = King 5ft outcrop.
#2 = King " parallel vein 20 ft. in ~~footwall~~ Hangingwall.
#3 = Queen tunnel brow 4 ft cut, green copper ore.
#4 = Lowboy 18 ft cut HW
#5 " 14 " " toward footwall follows #4

THIS REPORT IS SUBMITTED TO THE ADDRESSED CLIENT FOR HIS EXCLUSIVE USE. AS A PROTECTION TO THE CLIENT, THE PUBLIC AND THIS LABORATORY, THIS REPORT MAY NOT BE USED IN WHOLE OR IN PART FOR ADVERTISING, PUBLICITY OR PROMOTION WITHOUT WRITTEN AUTHORIZATION.

5029 FOURNIER ROAD TELEPHONE (209) 966-2591

Mariposa Spectrographic Laboratory

MARIPOSA, CALIFORNIA 95338

Chuck Kunkes
P. O. Box LVSR 970
Kingman, Arizona 86401

March 17th, 1976 PM

Dear Mr. Kunkes:

Enclosed, find our spectrographic analyses reports covering your three samples as marked.

We were not able to confirm the presence of sufficient Gold and Silver or other potentially valuable elements in these samples to consider them as mineral "prospects", we are sorry to report. The samples analyzed are as we have described them under "remarks" on the respective reports.

Again, our thanks.

Sincerely,

George R. Graves

George R. Graves

1cc

LABORATORY REPORT

Mariposa Spectrographic Laboratory

5029 FOURNIER ROAD, MARIPOSA, CALIFORNIA 95338
Telephone (209) 966-2591

CHARGES: $5.00
LAB NO. 26293
SUBMITTED BY:

Date 3/17/76 PM

Qualitative Spectrographic Analysis

Chuck Kunkes
P. O. Box LVSR 970
Kingman, Arizona 86401

ELEMENTS FOUND
AND ESTIMATED PERCENTAGE RANGE
OF CONCENTRATION

SAMPLE MARK
8

ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %
Aluminum Al_2O_3	2.0	4.0	Lithium	.008	0.02	Thallium		
Antimony			Magnesium MgO	0.5	1.0	Thorium		
Arsenic			Manganese	0.01	0.06	Tin		
Barium	.002	.008	Mercury			Titanium	.007	0.03
Beryllium			Molybdenum			Tungsten		
Bismuth			Nickel	.0007	.003	Uranium		
Boron			Osmium			Vanadium	.001	.006
Calcium CaO	0.40	0.80	Palladium			Zinc		
Cadmium			Phosphorus			Zirconium		
Cesium			Platinum Not detected in sample			RARE EARTHS:		
Chromium	.001	.006	Potassium	0.10	0.20	Cerium		
Cobalt	.0006	.002	Rhenium			Dysprosium		
Columbium			Rhodium			Erbium		
Copper	.007	0.03	Rubidium			Europium		
Gallium	.002	.006	Ruthenium			Gadolinium		
Germanium			Scandium			Holmium		
Gold Not detected in sample			Silicon (as SiO2)	80.0	90.0	Lanthanum		
Hafnium			Silver	.0001	.0003	Neodymium		
Indium			Sodium	0.20	0.40	Praseodymium		
Iridium			Strontium	.0006	.002	Samarium		
Iron	2.0	4.0	Tantalum			Ytterbium		
Lead	----	0.01	Tellurium			Yttrium		

Remarks: This material is principally composed of Quartz, with minor feldspar and dolomitic limestone. Silver does not exceed 0.09 ounce per ton. Gold was not detected.

Respectfully Submitted

Frank L. Kraus (Spectrographer

MARIPOSA SPECTROGRAPHIC LABORATORY

percent to ton (2,000 lbs.)
1.0% = 20.0 Lbs. AVOIR.
0.10% = 2.0 Lbs. AVOIR.
0.01% = 3.2 oz. AVOIR
0.001% = 0.32 oz. AVOIR.
0.0001% = 0.032 oz. AVOIR

5029 FOURNIER ROAD

TELEPHONE (209) 966-2591

Mariposa Spectrographic Laboratory

MARIPOSA, CALIFORNIA 95338

Chuck Kunkes
L.V.S.R., Box 970
Kingman, Arizona 86401

February 25th, 1976 PM

Dear Mr. Kunkes:

Enclosed, find our spectrographic analyses reports covering your two samples as submitted and marked.

We detected up to 1.5 ounces of Gold per ton in your #2 sample, Mr. Kunkes. However, when we concentrated the unused sample pulp, we only found 7 very tiny particles of Gold, hardly sufficient to establish the ore as a 1.5 ounce ore. Therefore, we suspect that some of your Gold may be combined in a Telluride.

We noted that you mailed your package from Kingman on February 7th. However, it did not arrive here until the 23rd. This is the treatment that the Postal Service is giving "THIRD CLASS" mail and your package appeared to have sufficient stamps for "PARCEL POST". Should you have future samples to send, try to send a sample of about 2.0 ounces and send the package by "FIRST CLASS". The cost will be less and the arrival time will be about three or so days. However, be certain that the Post Office marks your package "FIRST CLASS", or do it yourself.

Our thanks to you, Mr. Kunkes.

Sincerely,

George R. Graves

George R. Graves

1cc

(By "a sample", we mean each sample for analysis.)

LABORATORY REPORT

Mariposa Spectrographic Laboratory

5029 FOURNIER ROAD, MARIPOSA, CALIFORNIA 95338
Telephone (209) 966-2591

CHARGES: $5.00
LAB NO. 26260
SUBMITTED BY:

Chuck Kunkes
L.V.S.R. Box 970
Kingman, Arizona 86401

Date 3/11/76 PM

Qualitative Spectrographic Analysis

ELEMENTS FOUND
AND ESTIMATED PERCENTAGE RANGE
OF CONCENTRATION

SAMPLE MARK
LASTCHANCE E, SIDE HOLE # 4 L.C. #8
HOLE 8 16 FEET TO 40 FEET

ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %
Aluminum Al_2O_3	4.0	8.0	Lithium	.008	0.02	Thallium		
Antimony			Magnesium MgO	1.0	3.0	Thorium		
Arsenic			Manganese	0.01	0.06	Tin		
Barium	0.10	0.20	Mercury			Titanium	0.03	0.10
Beryllium			Molybdenum			Tungsten		
Bismuth			Nickel	.0005	.001	Uranium		
Boron			Osmium			Vanadium	.0007	.003
Calcium CaO	6.0	12.0	Palladium			Zinc		
Cadmium			Phosphorus			Zirconium	.0008	.004
Cesium			Platinum Not detected in sample			RARE EARTHS:		
Chromium	.002	.008	Potassium	0.30	0.60	Cerium		
Cobalt	—	.0004	Rhenium			Dysprosium		
Columbium			Rhodium			Erbium		
Copper	.006	0.02	Rubidium			Europium		
Gallium	.002	.007	Ruthenium			Gadolinium		
Germanium			Scandium			Holmium		
Gold Not detected in sample			Silicon (as SiO2)	55.0	75.0	Lanthanum		
Hafnium			Silver	.0002	.0006	Neodymium		
Indium			Sodium	0.5	1.0	Praseodymium		
Iridium			Strontium			Samarium		
Iron	1.0	3.0	Tantalum			Ytterbium		
Lead	0.01	0.06	Tellurium			Yttrium		

Remarks: This material is a carbonate-silicate formation consisting of Quartz, feldspars, dolomitic limestone and Hematite. Gold was not detected. Silver is present not to exceed 0.18 ounce per ton.

Respectfully Submitted

Steven R. Fraser (Spectrographer

MARIPOSA SPECTROGRAPHIC LABORATORY

percent to ton (2,000 lbs.)
1.0% = 20.0 Lbs. AVOIR.
0.10% = 2.0 Lbs. AVOIR.
0.01% = 3.2 oz. AVOIR
0.001% = 0.32 oz. AVOIR.
0.0001% = 0.032 oz. AVOIR.

LABORATORY REPORT

Mariposa Spectrographic Laboratory

5029 FOURNIER ROAD, MARIPOSA, CALIFORNIA 95338
Telephone (209) 966-2591

CHARGES: $5.00
LAB NO. 26260
SUBMITTED BY:

Date 3/11/76 PM

Qualitative Spectrographic Analysis

Chuck Kunkes
L.V.S.R. Box 970
Kingman, Arizona 86401

ELEMENTS FOUND
AND ESTIMATED PERCENTAGE RANGE
OF CONCENTRATION

SAMPLE MARK
HOLE
LAST CHANCE E. SIDE # 4 L.C. #8
HOLE 8 10 FEET TO 40 FEET

ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %
Aluminum Al_2O_3	4.0	8.0	Lithium	.008	0.02	Thallium		
Antimony			Magnesium MgO	1.0	3.0	Thorium		
Arsenic			Manganese	0.01	0.06	Tin		
Barium	0.10	0.20	Mercury			Titanium	0.03	0.10
Beryllium			Molybdenum			Tungsten		
Bismuth			Nickel	.0005	.001	Uranium		
Boron			Osmium			Vanadium	.0007	.003
Calcium CaO	6.0	12.0	Palladium			Zinc		
Cadmium			Phosphorus			Zirconium	.0008	.004
Cesium			Platinum Not detected in sample			RARE EARTHS:		
Chromium	.002	.008	Potassium	0.30	0.60	Cerium		
Cobalt	—	.0004	Rhenium			Dysprosium		
Columbium			Rhodium			Erbium		
Copper	.006	0.02	Rubidium			Europium		
Gallium	.002	.007	Ruthenium			Gadolinium		
Germanium			Scandium			Holmium		
Gold Not detected in sample			Silicon (as SiO2)	55.0	75.0	Lanthanum		
Hafnium			Silver	.0002	.0006	Neodymium		
Indium			Sodium	0.5	1.0	Praseodymium		
Iridium			Strontium			Samarium		
Iron	1.0	3.0	Tantalum			Ytterbium		
Lead	0.01	0.06	Tellurium			Yttrium		

Remarks: This material is a carbonate-silicate formation consisting of Quartz, feldspars, dolomitic limestone and Hematite. Gold was not detected. Silver is present not to exceed 0.18 ounce per ton.

Respectfully Submitted

Scott R. Faust (Spectrographe

MARIPOSA SPECTROGRAPHIC LABORATORY

percent to ton (2,000 lbs.)
1.0% = 20.0 Lbs. AVOIR.
0.10% = 2.0 Lbs. AVOIR.
0.01% = 3.2 oz. AVOIR
0.001% = 0.32 oz. AVOIR.
0.0001% = 0.032 oz. AVOIR.

CARLOS ROCHIN
MANAGER
REGISTERED ASSAYER
ARIZONA REG. 7126

HECTOR C. ROCHIN, SR.
FOUNDER
REGISTERED ASSAYER
ARIZONA REG. No. 4073

HECTOR A. ROCHIN, J
MINING ENGINEER AND
LAND SURVEYOR
ARIZONA REG. No. 247

Rochin Engineering and Assay Office

P. O. BOX 218 PHONE (AC 602) 364-8092
DOUGLAS, ARIZONA · 85607

ASSAYERS & METALLURGICAL CHEMISTS

INTERPRETER
Line 4/10
OUT CROPPING

CERTIFICATE OF ASSAY

Name Larry Therrien

	GOLD bzs.	SILVER OZS.	COPPER %
Lab 71-391 Brown rock #1	Tr	0.46	
71-392 White rock # 2	Tr	4.40	
71-393 # 3	Tr	1.80	

OFF GROUND
NEAR POST NO
DIGGINGS

REGISTERED ASS. CERTIFICATE NO. 7126 CARLOS ROCHIN Signed Arizona U. S.

REMARKS:

DATE: 12 Jun 71

CHARGES: $ 10.50 Paid

LABORATORY REPORT

Mariposa Spectrographic Laboratory

5029 FOURNIER ROAD, MARIPOSA, CALIFORNIA 95338
Telephone (209) 966-2591

CHARGES: $5.00
LAB NO. 26424
SUBMITTED BY:

Date 4/9/76 PM

Qualitative Spectrographic Analysis

Chuck Kunkes
LVSR Box 970
Kingman, Arizona 86407

ELEMENTS FOUND
AND ESTIMATED PERCENTAGE RANGE
OF CONCENTRATION

SAMPLE MARK

A-4

ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %
Aluminum	0.03	0.10	Lithium			Thallium		
Antimony			Magnesium	0.03	0.10	Thorium		
Arsenic			Manganese	.006	0.02	Tin		
Barium	.002	.008	Mercury			Titanium	0.01	0.06
Beryllium			Molybdenum	.0008	.004	Tungsten		
Bismuth			Nickel	.0005	.001	Uranium		
Boron			Osmium			Vanadium	.0008	.004
Calcium	0.01	0.06	Palladium			Zinc		
Cadmium			Phosphorus			Zirconium		
Cesium			Platinum	Not detected in sample		RARE EARTHS:		
Chromium	.001	.006	Potassium			Cerium		
Cobalt			Rhenium			Dysprosium		
Columbium			Rhodium			Erbium		
Copper	.005	0.01	Rubidium			Europium		
Gallium	—	.001	Ruthenium			Gadolinium		
Germanium			Scandium			Holmium		
Gold	Not detected in sample		Silicon (as SiO2)	90.0	98.0	Lanthanum		
Hafnium			Silver	.002	.005	Neodymium		
Indium			Sodium	—	0.01	Praseodymium		
Iridium			Strontium			Samarium		
Iron	2.0	4.0	Tantalum			Ytterbium		
Lead	0.15	0.30	Tellurium			Yttrium		

Remarks: This material is principally composed of Quartz, with minor Iron in the forms of Iron-disulphide and ocherous Hematite. Silver is present in this sample at up to 1.5 ounce per ton. Note also the increase in Lead.

Respectfully Submitted

(Spectrographer)

MARIPOSA SPECTROGRAPHIC LABORATORY

percent to ton (2,000 lbs.)
1.0% = 20.0 Lbs. AVOIR.
0.10% = 2.0 Lbs. AVOIR.
0.01% = 3.2 oz. AVOIR
0.001% = 0.32 oz. AVOIR.
0.0001% = 0.032 oz. AVOIR.

LABORATORY REPORT

Mariposa Spectrographic Laboratory

5029 FOURNIER ROAD, MARIPOSA, CALIFORNIA 95338
Telephone (209) 966-2591

CHARGES: $5.00
LAB NO. 26311
SUBMITTED BY:

Date 3/20/76 PM

Qualitative Spectrographic Analysis

Chuck Kunkes
P. O. Box LVSR 970
Kingman, Arizona 86401

ELEMENTS FOUND
AND ESTIMATED PERCENTAGE RANGE
OF CONCENTRATION

SAMPLE MARK

12

ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %
Aluminum	.0006	.002	Lithium			Thallium		
Antimony			Magnesium	.001	.006	Thorium		
Arsenic			Manganese	.0007	.003	Tin		
Barium	—	.0005	Mercury			Titanium	.0005	.001
Beryllium			Molybdenum	—	.0005	Tungsten		
Bismuth			Nickel	—	.0005	Uranium		
Boron			Osmium			Vanadium		
Calcium	.0008	.004	Palladium			Zinc		
Cadmium			Phosphorus			Zirconium		
Cesium			Platinum Not detected in sample			RARE EARTHS:		
Chromium	.0004	.0009	Potassium			Cerium	0.03	0.10
Cobalt			Rhenium			Dysprosium		
Columbium			Rhodium			Erbium		
Copper	0.04	0.12	Rubidium			Europium		
Gallium			Ruthenium			Gadolinium		
Germanium			Scandium			Holmium		
Gold	—	.0005	Silicon (as SiO2)	95.0	99.5	Lanthanum	.006	0.02
Hafnium			Silver	.0002	.0006	Neodymium	0.01	0.04
Indium			Sodium			Praseodymium		
Iridium			Strontium			Samarium		
Iron	0.30	0.60	Tantalum			Ytterbium		
Lead	—	.005	Tellurium			Yttrium	.002	.006

Remarks: This material is principally composed of Quartz, probably of hypogene origin. Mineralization is present as primary Chalcopyrite and secondary Malachite. Silver is present at about 0.15 ounce per ton. A small quantity of Gold is also present, but does not appear to exceed .0005%, or not more than 0.15 ounce per ton.

Respectfully Submitted

(Spectrographer)

MARIPOSA SPECTROGRAPHIC LABORATORY

percent to ton (2,000 lbs.)
1.0% = 20.0 Lbs. AVOIR.
0.10% = 2.0 Lbs. AVOIR.
0.01% = 3.2 oz. AVOIR
0.001% = 0.32 oz. AVOIR.
0.0001% = 0.032 oz. AVOIR.

LABORATORY REPORT

Mariposa Spectrographic Laboratory

5029 FOURNIER ROAD, MARIPOSA, CALIFORNIA 95338
Telephone (209) 966-2591

CHARGES: $5.00
LAB NO. 26360
SUBMITTED BY:

Date 3/28/76

Qualitative Spectrographic Analysis

Chuck Kunkes
LVSR Box 970
Kingman, Arizona 86401

ELEMENTS FOUND
AND ESTIMATED PERCENTAGE RANGE
OF CONCENTRATION

SAMPLE MARK

LAST HOPE AREA #2
MIXED OFF BARIUM VAIN BY SHAT AND PURPLE LILIAC - COLOR ROCK

ELEMENT		Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %
Aluminum	Al_2O_3	0.20	0.40	Lithium	0.01	0.06	Thallium		
Antimony				Magnesium	0.15	0.30	Thorium		
Arsenic		0.03	0.10	Manganese	.0007	.003	Tin		
Barium	major constituent			Mercury	0.05	0.15	Titanium	.0007	.003
Beryllium				Molybdenum	.005	0.01	Tungsten		
Bismuth				Nickel	—	.0002	Uranium		
Boron				Osmium			Vanadium	.0005	.001
Calcium	CaO	2.0	4.0	Palladium			Zinc		
Cadmium				Phosphorus			Zirconium		
Cesium				Platinum	Not detected in sample		RARE EARTHS:		
Chromium		.001	.006	Potassium	0.01	0.06	Cerium		
Cobalt				Rhenium			Dysprosium		
Columbium				Rhodium			Erbium		
Copper		.0004	.0009	Rubidium			Europium		
Gallium				Ruthenium			Gadolinium		
Germanium				Scandium			Holmium		
Gold	Not detected in sample			Silicon (as SiO2)	0.30	0.60	Lanthanum		
Hafnium				Silver	.001	.003	Neodymium		
Indium				Sodium	0.02	0.08	Praseodymium		
Iridium				Strontium	0.5	1.5	Samarium		
Iron		0.15	0.30	Tantalum			Ytterbium		
Lead		0.5	1.5	Tellurium			Yttrium		

Remarks: This material is principally composed of Barium-sulphate(Barite), along with both primary and secondary Lead in the forms of Galena and Massicot. Mercury is present as Cinnabar. Arsenic is present as Realgar and possibly Orpiment. Silver is present at about 1.0 ounce per ton.

Respectfully Submitted,

(Spectrographer)
MARIPOSA SPECTROGRAPHIC LABORATORY

percent to ton (2,000 lbs.)
1.0% = 20.0 Lbs. AVOIR.
0.10% = 2.0 Lbs. AVOIR.
0.01% = 3.2 oz. AVOIR
0.001% = 0.32 oz. AVOIR.
0.0001% = 0.032 oz. AVOIR.

LABORATORY REPORT

Mariposa Spectrographic Laboratory

5029 FOURNIER ROAD, MARIPOSA, CALIFORNIA 95338
Telephone (209) 966-2591

CHARGES: $5.00
LAB NO. 26311
SUBMITTED BY:

Date 3/20/76 PM

Qualitative Spectrographic Analysis

Chuck Kunkes
P. O. Box LVSR 970
Kingman, Arizona 86401

ELEMENTS FOUND
AND ESTIMATED PERCENTAGE RANGE
OF CONCENTRATION

SAMPLE MARK
12

ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %
Aluminum	.0006	.002	Lithium			Thallium		
Antimony			Magnesium	.001	.006	Thorium		
Arsenic			Manganese	.0007	.003	Tin		
Barium	---	.0005	Mercury			Titanium	.0005	.001
Beryllium			Molybdenum	---	.0005	Tungsten		
Bismuth			Nickel	---	.0005	Uranium		
Boron			Osmium			Vanadium		
Calcium	.0008	.004	Palladium			Zinc		
Cadmium			Phosphorus			Zirconium		
Cesium			Platinum Not detected in sample			RARE EARTHS:		
Chromium	.0004	.0009	Potassium			Cerium	0.03	0.10
Cobalt			Rhenium			Dysprosium		
Columbium			Rhodium			Erbium		
Copper	0.04	0.12	Rubidium			Europium		
Gallium			Ruthenium			Gadolinium		
Germanium			Scandium			Holmium		
Gold	---	.0005	Silicon (as SiO2)	95.0	99.5	Lanthanum	.006	0.02
Hafnium			Silver	.0002	.0006	Neodymium	0.01	0.04
Indium			Sodium			Praseodymium		
Iridium			Strontium			Samarium		
Iron	0.30	0.60	Tantalum			Ytterbium		
Lead	---	.005	Tellurium			Yttrium	.002	.006

Remarks: This material is principally composed of Quartz, probably of hypogene origin. Mineralization is present as primary Chalcopyrite and secondary Malachite. Silver is present at about 0.15 ounce per ton. A small quantity of Gold is also present, but does not appear to exceed .0005%, or not more than 0.15 ounce per ton.

Respectfully Submitted

Robert D. Graves (Spectrographer)

MARIPOSA SPECTROGRAPHIC LABORATORY

percent to ton (2,000 lbs.)
1.0% = 20.0 Lbs. AVOIR.
0.10% = 2.0 Lbs. AVOIR.
0.01% = 3.2 oz. AVOIR
0.001% = 0.32 oz. AVOIR.
0.0001% = 0.032 oz. AVOIR.

LABORATORY REPORT

Mariposa Spectrographic Laboratory

5029 FOURNIER ROAD, MARIPOSA, CALIFORNIA 95338
Telephone (209) 966-2591

CHARGES: $5.00
LAB NO. 26294
SUBMITTED BY:

Date 3/17/76 PM

Qualitative Spectrographic Analysis

Chuck Kunkes
P. O. Box LVSR 970
Kingman, Arizona 86401

ELEMENTS FOUND
AND ESTIMATED PERCENTAGE RANGE
OF CONCENTRATION

SAMPLE MARK
9

ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %
Aluminum Al_2O_3	3.0	6.0	Lithium	.008	0.02	Thallium		
Antimony			Magnesium MgO	2.0	4.0	Thorium		
Arsenic			Manganese	0.03	0.10	Tin		
Barium	.0005	.001	Mercury			Titanium	.001	.006
Beryllium			Molybdenum			Tungsten		
Bismuth			Nickel	.001	.006	Uranium		
Boron			Osmium			Vanadium	.001	.006
Calcium CaO	2.0	4.0	Palladium			Zinc		
(mium			Phosphorus			Zirconium		
Cesium			Platinum Not detected in sample			RARE EARTHS:		
Chromium	.002	.008	Potassium	0.20	0.40	Cerium	.006	0.02
Cobalt	.0006	.002	Rhenium			Dysprosium		
Columbium			Rhodium			Erbium		
Copper	.0006	.002	Rubidium			Europium		
Gallium	.002	.007	Ruthenium			Gadolinium		
Germanium			Scandium			Holmium		
Gold Not detected in sample			Silicon (as SiO2)	70.0	85.0	Lanthanum	.005	.009
Hafnium			Silver	.0001	.0003	Neodymium	—	0.01
Indium			Sodium	0.30	0.60	Praseodymium		
Iridium			Strontium	.0007	.003	Samarium		
Iron	2.0	4.0	Tantalum			Ytterbium		
Lead	0.01	0.04	Tellurium			Yttrium	—	.003

Remarks: This material is a carbonate-silicate formation principally composed of Quartz, with some feldspar and dolomitic limestone. Silver does not exceed 0.09 ounce per ton. Gold was not detected.

Respectfully Submitted

(Spectrographer)

MARIPOSA SPECTROGRAPHIC LABORATORY

cent to ton (2,000 lbs.)
1.0% = 20.0 Lbs. AVOIR.
0.10% = 2.0 Lbs. AVOIR.
0.01% = 3.2 oz. AVOIR
0.001% = 0.32 oz. AVOIR.
0.0001% = 0.032 oz. AVOIR.

LABORATORY REPORT

Mariposa Spectrographic Laboratory

5029 FOURNIER ROAD, MARIPOSA, CALIFORNIA 95338
Telephone (209) 966-2591

CHARGES: $5.00
LAB NO. 26295
SUBMITTED BY:

Date 3/17/76 PM

Qualitative Spectrographic Analysis

Chuck Kunkes
P. O. Box LVSR 970
Kingman, Arizona 86401

ELEMENTS FOUND
AND ESTIMATED PERCENTAGE RANGE
OF CONCENTRATION

SAMPLE MARK
10

ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %
Aluminum Al_2O_3	2.0	4.0	Lithium	.008	0.02	Thallium		
Antimony			Magnesium	0.03	0.10	Thorium		
Arsenic			Manganese	.002	.008	Tin		
Barium	.0006	.002	Mercury			Titanium	.0007	.003
Beryllium			Molybdenum			Tungsten		
Bismuth			Nickel	.0005	.001	Uranium		
Boron			Osmium			Vanadium	.0005	.001
Calcium CaO	0.10	0.20	Palladium			Zinc		
Cadmium			Phosphorus			Zirconium		
Cesium			Platinum Not detected in sample			RARE EARTHS:		
Chromium	.0008	.004	Potassium	0.01	0.06	Cerium		
Cobalt	---	.0003	Rhenium			Dysprosium		
Columbium			Rhodium			Erbium		
Copper	.0008	.004	Rubidium			Europium		
Gallium	.002	.004	Ruthenium			Gadolinium		
Germanium			Scandium			Holmium		
Gold Not detected in sample			Silicon (as SiO2)	85.0	95.0	Lanthanum		
Hafnium			Silver	.00008	.0001	Neodymium		
Indium			Sodium	0.40	0.80	Praseodymium		
Iridium			Strontium	.0006	.002	Samarium		
Iron	0.5	1.0	Tantalum			Ytterbium		
Lead	.008	0.01	Tellurium			Yttrium		

Remarks: This material is principally composed of Quartz, with some feldspar and very little dolomitic limestone. Silver does not exceed 0.03 ounce per ton. Gold was not detected.

Respectfully Submitted

Joseph D. Franos (Spectrographer)
MARIPOSA SPECTROGRAPHIC LABORATORY

percent to ton (2,000 lbs.)
1.0% = 20.0 Lbs. AVOIR.
0.10% = 2.0 Lbs. AVOIR.
0.01% = 3.2 oz. AVOIR
0.001% = 0.32 oz. AVOIR.
0.0001% = 0.032 oz. AVOIR.

MACKAY SCHOOL OF MINES
"A School of Mineral Resources"
UNIVERSITY OF NEVADA
RENO, NEVADA 89557

Geology-Geography Department

March 10, 1977

Mr. C. R. Kunkes
Las Vegas Star Route Box 970
Kingman, Arizona 86401

Dear Mr. Kunkes:

Under a Federal Government grant, the Mackay School of Mines, University of Nevada, Reno, is carrying out an investigation of the "Great Basin Geologic Framework and Uranium Favorability." A very important segment of this study is the location of all known uranium deposits and/or occurrences in the Great Basin area. This information will be correlated with uranium favorability of the various rock types and environments. The primary object of the investigation is to amplify and document those geologic features which are of importance in determining the uranium favorability of the Great Basin in general as well as specific areas within this region.

It is my understanding that you hold a number of unpatented claims in Mohave County, Arizona. Any information regarding uranium and/or radioactivity at these or other claims that you could provide would be greatly appreciated. We would like to obtain deposit and/or occurrence location(s) as soon as feasible.

Thank you for considering this request.

Very sincerely yours,

Laurence H. Beal

Laurence H. Beal
Project, Technical Director

I DID COME UP WITH
RARE EARTHS IN ONE HOLE
BUT DID NOT CHECK FOR URANIUM

LHB:b

Statements made to me by two Mining Engineers regarding the Gold Bug Mine.

During the 1930s J.M.Kiley was Superintendent of the Tennessee Mine in Chloride and Catherine Lorig of Chloride was the owner of a group of gold claims located about 3 miles Northwest of the Gold Bug, named Treasure Trove, she prevaled Mr. Kiley to make a report on this property, he said he would if she provided the transportation.

She then came to me to take them out to the property and I knowing her financial standing agreed to take them out, so she and he set a day and Catherine prepared a lunch and we left Chloride about 8 A.M. and arrived on the property at about 9 oclock and Kiley began immediately to examine the mine, at noon he came down to the car where Catherine and I were, we got out the lunch and after finishing eating, Mr. Kiley said to Catherine, "Catherine I can not make a report on this property that will do you any good".

We then started back to Chloride but I went back by another route which took us by the Gold Bug mine, I drove up on the dump at shaft No.2, Kiley and I got out of the car and Kiley looked over the dump and an open cut along the vein to the Southeast for some 20 minutes or so and came back to the car and said to me "there is a mine here". At that time I had no interest in the mine I did know the principle owner however Mr. H. J. Marmein of New York.

When President shut down all Gold Mining in the United States Mr. M. B. Richardson, Superintendent of the Producers Mine and his Geologist C. B. Charles stayed on the property for several months expecting to get working again, however they did not get such order so they both left Arizona, that was in the early 40s, some 7 or 8 years later I was in the Kingman Newstand and Mr. Charles came in and we sat down and had quite a talk and he told me that during the time he and Richardson stayed at the mine that he and Richardson examined all the properties in the River Range North of the Producers and also the White Hills mine and he said, "If there is a mine in the River Range North of the Producer it is the Gold Bug".

I owned the Gold Bug at that time but Charles did not know it.

December 4th, 1969

John H. Ware

John H. Ware

Put this with your Gold Bug papers

LABORATORY REPORT

Mariposa Spectrographic Laboratory

5029 FOURNIER ROAD, MARIPOSA, CALIFORNIA 95338
Telephone (209) 966-2591

CHARGES: $5.00
LAB NO. 26189
SUBMITTED BY:

Date 2/25/76 PM

Qualitative Spectrographic Analysis

Chuck Kunkes
.V.S.R., Box 970
Kingman, Arizona 86401

ELEMENTS FOUND
AND ESTIMATED PERCENTAGE RANGE
OF CONCENTRATION

SAMPLE MARK

2

ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %
Aluminum	.0007	.003	Lithium			Thallium		
Antimony			Magnesium	0.03	0.10	Thorium		
Arsenic	0.03	0.10	Manganese	.001	.006	Tin		
Barium	.002	.008	Mercury			Titanium	.0006	.002
Beryllium			Molybdenum	.001	.006	Tungsten		
Bismuth	0.05	0.15	Nickel	.0005	.001	Uranium		
Boron			Osmium			Vanadium	.0004	.0009
C ium	0.03	0.10	Palladium			Zinc	0.03	0.10
Cadmium			Phosphorus			Zirconium		
Cesium			Platinum Not detected in sample			RARE EARTHS:		
Chromium	.0006	.002	Potassium			Cerium		
Cobalt	.0007	.003	Rhenium			Dysprosium		
Columbium			Rhodium			Erbium		
Copper	0.30	0.60	Rubidium			Europium		
Gallium	——	.002	Ruthenium			Gadolinium		
Germanium			Scandium			Holmium		
Gold	.002	.005	Silicon (as SiO2)	85.0	95.0	Lanthanum		
Hafnium			Silver	.003	.009	Neodymium		
Indium			Sodium			Praseodymium		
Iridium			Strontium			Samarium		
Iron	5.0	10.0	Tantalum			Ytterbium		
Lead	0.30	0.60	Tellurium	0.01	0.06	Yttrium		

Remarks: This material is an altered Quartz vein of hypogene origin. Iron is present largely as Hematite-limonite and minor Pyrite. Gold is present at up to about 1.5 ounces in the sample submitted and analyzed. Silver is present at about 3.0 ounces per ton.

Respectfully Submitted,

(Spectrographer

MARIPOSA SPECTROGRAPHIC LABORATORY

percent to ton (2,000 lbs.)
1.0% = 20.0 Lbs. AVOIR.
0.10% = 2.0 Lbs. AVOIR.
0.01% = 3.2 oz. AVOIR
0.001% = 0.32 oz. AVOIR.
0.0001% = 0.032 oz. AVOIR.

(MARGIE #1 NEXT TO GOLD BUG AT SOUTH END OF MARIPOSA CLAIMS ON SOUTH HILL

LABORATORY REPORT

Mariposa Spectrographic Laboratory

5029 FOURNIER ROAD, MARIPOSA, CALIFORNIA 95338
Telephone (209) 966-2591

CHARGES: $5.00
LAB NO. 26452
SUBMITTED BY:

Date 4/15/76 PM

Qualitative Spectrographic Analysis

Chuck Kunkes
P. O. Box LVSR 970
Kingman, Arizona 86401

ELEMENTS FOUND
AND ESTIMATED PERCENTAGE RANGE
OF CONCENTRATION

SAMPLE MARK

17

ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %
Aluminum	.0007	.003	Lithium			Thallium		
Antimony			Magnesium	.001	.006	Thorium		
Arsenic	0.03	0.10	Manganese	.0008	.004	Tin	—	.002
Barium	—	.0003	Mercury			Titanium	.0006	.002
Beryllium			Molybdenum	.0008	.004	Tungsten		
Bismuth			Nickel	.0005	.001	Uranium		
Boron			Osmium			Vanadium	.0004	.0008
[illegible]ium	.0008	.004	Palladium			Zinc	0.03	0.10
Cadmium			Phosphorus			Zirconium		
Cesium			Platinum	Not detected in sample		RARE EARTHS:		
Chromium	.0007	.003	Potassium			Cerium		
Cobalt			Rhenium			Dysprosium		
Columbium			Rhodium			Erbium		
Copper	0.08	0.20	Rubidium			Europium		
Gallium			Ruthenium			Gadolinium		
Germanium			Scandium			Holmium		
Gold	.0009	.001	Silicon (as SiO2)	85.0	95.0	Lanthanum		
Hafnium			Silver	.001	.003	Neodymium		
Indium			Sodium			Praseodymium		
Iridium			Strontium			Samarium		
Iron	2.0	4.0	Tantalum			Ytterbium		
Lead	0.30	0.60	Tellurium			Yttrium		

Remarks: This material is a mildly altered Quartz vein of hypogene origin, with Galena, Silver at about 1.0 ounce per ton and Gold at about 0.30 ounce per ton.

Respectfully Submitted

Geo. F. W. Francis (Spectrograph

MARIPOSA SPECTROGRAPHIC LABORATORY

percent to ton (2,000 lbs.)
1.0% = 20.0 Lbs. AVOIR.
0.10% = 2.0 Lbs. AVOIR.
0.01% = 3.2 oz. AVOIR

LABORATORY REPORT

Mariposa Spectrographic Laboratory

5029 FOURNIER ROAD, MARIPOSA, CALIFORNIA 95338
Telephone (209) 966-2591

CHARGES: $5.00
LAB NO. 26421
SUBMITTED BY:

Date 4/9/76 PM

Qualitative Spectrographic Analysis

Chuck Kunkes
LVSR Box 970
Kingman, Arizona 86407

ELEMENTS FOUND
AND ESTIMATED PERCENTAGE RANGE
OF CONCENTRATION

SAMPLE MARK

#1 A

ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %
Aluminum Al_2O_3	0.40	0.80	Lithium	—	.008	Thallium		
Antimony			Magnesium	0.10	0.20	Thorium		
Arsenic			Manganese	.005	0.01	Tin	—	.002
Barium	0.10	0.20	Mercury			Titanium	0.01	0.06
Beryllium			Molybdenum	—	.0005	Tungsten		
Bismuth			Nickel	.0006	.002	Uranium		
Boron			Osmium			Vanadium	.0007	.003
Calcium	0.03	0.10	Palladium			Zinc		
Cadmium			Phosphorus			Zirconium		
Cesium			Platinum Not detected in sample			RARE EARTHS:		
Chromium	.0007	.003	Potassium	0.05	0.15	Cerium		
Cobalt			Rhenium			Dysprosium		
Columbium			Rhodium			Erbium		
Copper	.005	0.01	Rubidium			Europium		
Gallium	—	.003	Ruthenium			Gadolinium		
Germanium			Scandium			Holmium		
Gold Not detected in sample			Silicon (as Si02)	90.0	98.0	Lanthanum		
Hafnium			Silver	.001	.003	Neodymium		
Indium			Sodium	—	0.01	Praseodymium		
Iridium			Strontium	.0007	.003	Samarium		
Iron	1.0	3.0	Tantalum			Ytterbium		
Lead	0.01	0.05	Tellurium			Yttrium		

Remarks: This material is principally composed of Quartz, with minor feldspar, ochreous Hematite, along with minor Iron-disulphide. Silver is present at about 0.60 ounce per ton.

Respectfully Submitted

Geo. J. Flaus (Spectrographer)

MARIPOSA SPECTROGRAPHIC LABORATORY

rcent to ton (2,000 lbs.)
1.0% = 20.0 Lbs. AVOIR.
0.10% = 2.0 Lbs. AVOIR.
0.01% = 3.2 oz. AVOIR
0.001% = 0.32 oz. AVOIR.
0.0001% = 0.032 oz. AVOIR.

LABORATORY REPORT

Mariposa Spectrographic Laboratory

5029 FOURNIER ROAD, MARIPOSA, CALIFORNIA 95338
Telephone (209) 966-2591

CHARGES: $5.00
LAB NO. 26259
SUBMITTED BY:

Date 3/11/76 PM

Qualitative Spectrographic Analysis

Chuck Kunkes
L.V.S.R. Box 970
Kingman, Arizona 86401

ELEMENTS FOUND
AND ESTIMATED PERCENTAGE RANGE
OF CONCENTRATION

SAMPLE MARK

#3 Lyle

Lylecy. Called 5 Davis & Kuk

ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %
Aluminum Al_2O_3	0.30	0.60	Lithium			Thallium		
Antimony			Magnesium	0.01	0.06	Thorium		
Arsenic	0.01	0.06	Manganese	.006	0.02	Tin	—	.003
Barium	.0004	.0009	Mercury			Titanium	.0007	.003
Beryllium			Molybdenum	—	.0004	Tungsten		
Bismuth	.002	.004	Nickel	.0005	.001	Uranium		
Boron			Osmium			Vanadium	.0005	.001
C ium	0.10	0.20	Palladium			Zinc	0.10	0.20
Cadmium			Phosphorus			Zirconium		
Cesium			Platinum	Not detected in sample		RARE EARTHS:		
Chromium	.0007	.003	Potassium			Cerium		
Cobalt	.0004	.0009	Rhenium			Dysprosium		
Columbium			Rhodium			Erbium		
Copper	0.01	0.06	Rubidium			Europium		
Gallium	—	.002	Ruthenium			Gadolinium		
Germanium			Scandium			Holmium		
Gold	.001	.003	Silicon (as SiO2)	90.0	95.0	Lanthanum		
Hafnium			Silver	.002	.006	Neodymium		
Indium			Sodium	0.10	0.20	Praseodymium		
Iridium			Strontium			Samarium		
Iron	2.0	4.0	Tantalum			Ytterbium		
Lead	0.10	0.20	Tellurium			Yttrium		

Remarks: This material is principally composed of Quartz, along with ochereus Hematite and very minor feldspar. Gold is present at about 0.5 ounce per ton. Silver is present at about 1.0 ounce per ton. A fire assay will be required to learn the exact quantities of both Gold and Silver.

Respectfully Submitted

Joseph D. Elmes (Spectrographer)
MARIPOSA SPECTROGRAPHIC LABORATORY

percent to ton (2,000 lbs.)
1.0% = 20.0 Lbs. AVOIR.
0.10% = 2.0 Lbs. AVOIR.
0.01% = 3.2 oz. AVOIR
0.001% = 0.32 oz. AVOIR.
0.0001% = 0.032 oz. AVOIR.

5029 FOURNIER ROAD

TELEPHONE (209) 966-2591

Mariposa Spectrographic Laboratory

MARIPOSA, CALIFORNIA 95338

Chuck Kunkes
LVSR Box 970
Kingman, Arizona 86407

April 9th, 1976 PM

Dear Mr. Kunkes:

Enclosed, find our spectrographic analyses reports, covering your samples as submitted and marked.

Lead in the samples appears to be present as secondary minerals, including Massicot or Cerussite. Minor Wulfenite may also be present. Note that your #4 sample contains more Lead and an equal increase in the Silver content.

Again, our thanks to you, Mr. Kunkes.

Sincerely,

George R. Graves

1ce

LABORATORY REPORT

Mariposa Spectrographic Laboratory

5029 FOURNIER ROAD, MARIPOSA, CALIFORNIA 95338
Telephone (209) 966-2591

CHARGES: $5.00
LAB NO. 26424
SUBMITTED BY:

Date 4/9/76 PM

Qualitative Spectrographic Analysis

Cimok Kunkes
LVSR Box 970
Kingman, Arizona 86407

ELEMENTS FOUND
AND ESTIMATED PERCENTAGE RANGE
OF CONCENTRATION

SAMPLE MARK

A-4

ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %
Aluminum	0.03	0.10	Lithium			Thallium		
Antimony			Magnesium	0.03	0.10	Thorium		
Arsenic			Manganese	.006	0.02	Tin		
Barium	.002	.008	Mercury			Titanium	0.01	0.06
Beryllium			Molybdenum	.0008	.004	Tungsten		
Bismuth			Nickel	.0005	.001	Uranium		
Boron			Osmium			Vanadium	.0008	.004
C. .ium	0.01	0.06	Palladium			Zinc		
Cadmium			Phosphorus			Zirconium		
Cesium			Platinum	Not detected in sample		RARE EARTHS:		
Chromium	.001	.006	Potassium			Cerium		
Cobalt			Rhenium			Dysprosium		
Columbium			Rhodium			Erbium		
Copper	.005	0.01	Rubidium			Europium		
Gallium	—	.001	Ruthenium			Gadolinium		
Germanium			Scandium			Holmium		
Gold	Not detected in sample		Silicon (as SiO2)	90.0	98.0	Lanthanum		
Hafnium			Silver	.002	.005	Neodymium		
Indium			Sodium	—	0.01	Praseodymium		
Iridium			Strontium			Samarium		
Iron	2.0	4.0	Tantalum			Ytterbium		
Lead	0.15	0.30	Tellurium			Yttrium		

Remarks: This material is principally composed of Quartz, with minor Iron in the forms of Iron-disulphide and ocherous Hematite. Silver is present in this sample at up to 1.5 ounce per ton. Note also the increase in Lead.

Respectfully Submitted

Geo. A. D. Stanes (Spectrographer)
MARIPOSA SPECTROGRAPHIC LABORATORY

percent to ton (2,000 lbs.)
1.0% = 20.0 Lbs. AVOIR.
0.10% = 2.0 Lbs. AVOIR.
0.01% = 3.2 oz. AVOIR
0.001% = 0.32 oz. AVOIR.
0.0001% = 0.032 oz. AVOIR.

LABORATORY REPORT

Mariposa Spectrographic Laboratory

5029 FOURNIER ROAD, MARIPOSA, CALIFORNIA 95338
Telephone (209) 966-2591

CHARGES: $5.00
LAB NO. 26423
SUBMITTED BY:

Date 4/9/76 PM

Qualitative Spectrographic Analysis

Chuck Kunkes
LVSR Box 970
Kingman, Arizona 86407

ELEMENTS FOUND
AND ESTIMATED PERCENTAGE RANGE
OF CONCENTRATION

SAMPLE MARK
A-3

ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %
Aluminum Al_2O_3	0.05	0.15	Lithium			Thallium		
Antimony			Magnesium	0.01	0.06	Thorium		
Arsenic			Manganese	.005	0.01	Tin		
Barium	.002	.008	Mercury			Titanium	.0007	.003
Beryllium			Molybdenum	—	.0005	Tungsten		
Bismuth			Nickel	.0004	.0009	Uranium		
Boron			Osmium			Vanadium	.0005	.001
Calcium	.008	0.04	Palladium			Zinc		
Cadmium			Phosphorus			Zirconium		
Cesium			Platinum Not detected in sample			RARE EARTHS:		
Chromium	.0007	.003	Potassium	—	0.02	Cerium		
Cobalt			Rhenium			Dysprosium		
Columbium			Rhodium			Erbium		
Copper	.0004	.0009	Rubidium			Europium		
Gallium			Ruthenium			Gadolinium		
Germanium			Scandium			Holmium		
Gold Not detected in sample			Silicon (as SiO2)	90.0	98.0	Lanthanum		
Hafnium			Silver	.0002	.0007	Neodymium		
Indium			Sodium	—	0.02	Praseodymium		
Iridium			Strontium			Samarium		
Iron	1.0	3.0	Tantalum			Ytterbium		
Lead	0.01	0.06	Tellurium			Yttrium		

Remarks: This material is principally composed of Quarts, along with minor Iron-disulphide, ocherous Hematite and only a trace quantity of feldspar. Silver is present at about 0.20 ounce per ton.

Respectfully Submitted

(Spectrographer)

MARIPOSA SPECTROGRAPHIC LABORATORY

rcent to ton (2,000 lbs.)
1.0% = 20.0 Lbs. AVOIR.
0.10% = 2.0 Lbs. AVOIR.
0.01% = 3.2 oz. AVOIR
0.001% = 0.32 oz. AVOIR.

5029 FOURNIER ROAD

TELEPHONE (209) 966-2591

Mariposa Spectrographic Laboratory

MARIPOSA, CALIFORNIA 95338

Chuck Kunkes
LVER Box 970
Kingman, Arizona 86407

April 9th, 1976 PM

Dear Mr. Kunkes:

Enclosed, find our spectrographic analyses reports, covering your samples as submitted and marked.

Lead in the samples appears to be present as secondary minerals.

LABORATORY REPORT

Mariposa Spectrographic Laboratory

5029 FOURNIER ROAD, MARIPOSA, CALIFORNIA 95338
Telephone (209) 966-2591

CHARGES: $5.00
LAB NO. 26422
SUBMITTED BY:

Date 4/9/76 PM

Qualitative Spectrographic Analysis

Chuck Kunkes
LVHR Box 970
Kingman, Arizona 86407

ELEMENTS FOUND
AND ESTIMATED PERCENTAGE RANGE
OF CONCENTRATION

SAMPLE MARK
A-2

ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %
Aluminum Al_2O_3	0.40	0.80	Lithium	—	.008	Thallium		
Antimony			Magnesium	0.03	0.10	Thorium		
Arsenic			Manganese	.005	0.01	Tin	—	.002
Barium	.0007	.003	Mercury			Titanium	.003	.009
Beryllium			Molybdenum	—	.0005	Tungsten		
Bismuth			Nickel	.0004	.0009	Uranium		
Boron			Osmium			Vanadium	.0005	.001
Calcium	0.03	0.10	Palladium			Zinc		
Cadmium			Phosphorus			Zirconium		
Cesium			Platinum Not detected in sample			RARE EARTHS:		
Chromium	.0007	.003	Potassium	0.05	0.15	Cerium		
Cobalt			Rhenium			Dysprosium		
Columbium			Rhodium			Erbium		
Copper	.005	0.01	Rubidium			Europium		
Gallium	—	.003	Ruthenium			Gadolinium		
Germanium			Scandium			Holmium		
Gold Not detected in sample			Silicon (as SiO2)	85.0	95.0	Lanthanum		
Hafnium			Silver	.00009	.002	Neodymium		
Indium			Sodium	0.01	0.06	Praseodymium		
Iridium			Strontium	.0007	.003	Samarium		
Iron	3.0	6.0	Tantalum			Ytterbium		
Lead	0.04	0.12	Tellurium			Yttrium		

Remarks: This material is nearly identical to the "1-A" sample, but contains slightly less Silver, but contains more Iron.

Respectfully Submitted

Joseph D. Flores (Spectrographer)
MARIPOSA SPECTROGRAPHIC LABORATORY

rcent to ton (2,000 lbs.)
1.0% = 20.0 Lbs. AVOIR.
0.10% = 2.0 Lbs. AVOIR.
0.01% = 3.2 oz. AVOIR
0.001% = 0.32 oz. AVOIR.
0.0001% = 0.032 oz. AVOIR.

LABORATORY REPORT

Mariposa Spectrographic Laboratory

5029 FOURNIER ROAD, MARIPOSA, CALIFORNIA 95338
Telephone (209) 966-2591

CHARGES: $15.00
LAB NO. 32620
SUBMITTED BY:

Charles Kunkes
L.V.S.R. Box 970
Kingman, Arizona 86401

Date 3/4/81

Qualitative Spectrographic Analysis

ELEMENTS FOUND
AND ESTIMATED PERCENTAGE RANGE
OF CONCENTRATION

SAMPLE MARK

R-1

ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %
Aluminum Al_2O_3	0.5	1.0	Lithium			Thallium		
Antimony			Magnesium MgO	0.05	0.15	Thorium		
Arsenic	.0008	.004	Manganese	.0008	.004	Tin		
Barium	.001	.006	Mercury			Titanium TiO	.006	0.02
Beryllium			Molybdenum	.001	.006	Tungsten		
Bismuth			Nickel	.0008	.004	Uranium		
Boron			Osmium			Vanadium	.0007	.003
Calcium CaO	0.20	0.40	Palladium			Zinc		
Cadmium			Phosphorus			Zirconium		
Cesium			Platinum	Not detected		RARE EARTHS:		
Chromium	.007	0.03	Potassium			Cerium		
Cobalt			Rhenium			Dysprosium		
Columbium			Rhodium			Erbium		
Copper	0.05	0.15	Rubidium			Europium		
Gallium			Ruthenium			Gadolinium		
Germanium			Scandium			Holmium		
Gold	Not detected		Silicon (as SiO2)	80.0	90.0	Lanthanum		
Hafnium			Silver	.0006	.002	Neodymium		
Indium			Sodium	0.03	0.10	Praseodymium		
Iridium			Strontium			Samarium		
Iron FeO/Fe_2O_3	4.0	8.0	Tantalum			Ytterbium		
Lead	.005	0.01	Tellurium			Yttrium		

Remarks: This material was developed by warm circulatory waters, it is of supergene development, and put into it's present state with a severe dynamic event. Silver is present at about 0.60 ounce per ton. Gold was not detected down to 10 parts per million

Respectfully Submitted

George R. Graves (Spectrographer)

MARIPOSA SPECTROGRAPHIC LABORATORY

percent to ton (2,000 lbs.)
1.0% = 20.0 Lbs. AVOIR.
0.10% = 2.0 Lbs. AVOIR.
0.01% = 3.2 oz. AVOIR
0.001% = 0.32 oz. AVOIR.
0.0001% = 0.032 oz. AVOIR.

LABORATORY REPORT

Mariposa Spectrographic Laboratory

5029 FOURNIER ROAD, MARIPOSA, CALIFORNIA 95338
Telephone (209) 966-2591

CHARGES: $15.00
LAB NO. 32621
SUBMITTED BY:

C. R. Kunkes
L.V.S.R. Box 970
Kingman, Arizona 86401

Date 3/4/81

Qualitative Spectrographic Analysis

ELEMENTS FOUND
AND ESTIMATED PERCENTAGE RANGE
OF CONCENTRATION

SAMPLE MARK

R-2

ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %
Aluminum Al_2O_3	1.0	3.0	Lithium			Thallium		
Antimony			Magnesium MgO	0.10	0.20	Thorium		
Arsenic	.0008	.004	Manganese	.0005	.001	Tin		
Barium	.006	0.02	Mercury			Titanium TiO	.006	0.02
Beryllium			Molybdenum			Tungsten		
Bismuth			Nickel	.0008	.004	Uranium		
Boron			Osmium			Vanadium	.0005	.001
Calcium CaO	0.05	0.15	Palladium			Zinc		
Cadmium			Phosphorus			Zirconium		
Cesium			Platinum	Not detected		RARE EARTHS:		
Chromium	.0008	.004	Potassium			Cerium		
Cobalt			Rhenium			Dysprosium		
Columbium			Rhodium			Erbium		
Copper	0.05	0.15	Rubidium			Europium		
Gallium	.001	.006	Ruthenium			Gadolinium		
Germanium			Scandium			Holmium		
Gold	Not detected		Silicon (as SiO2)	80.0	90.0	Lanthanum		
Hafnium			Silver	.0005	.001	Neodymium		
Indium			Sodium	.008	0.04	Praseodymium		
Iridium			Strontium			Samarium		
Iron: FeO/Fe2O3	3.0	6.0	Tantalum			Ytterbium		

Klondike mine -
Arizona Wilderness } South
Galeria -
8 miles W of Pima to Arizona & Klondike
SW upon Rattlesnake Canyon
Forest lookout - half way up - Wagon
road to property
"Powers" Min "Knote" 480' drift
south and
coolidge dam town & shelter
since Fort Grant & Klondike
towards Fort Grant Y → Klondike
& Arizona turn trail due SW to
rattlesnake Canyon - SW to Klondike
→ 3

Flores Mine
Mark F. Jones Jr LA Calif atty
3 part claims 1/2 oz samples
3000 no of workings to samples
limonite & Sparsomite on Surface
Shaft - 260' deep - drifted North
Shipped 2 carloads 3 oz 10000 tons
of 1/2 oz to Producers mine
& chloride 5 miles - case work
to ASER (2) 1941
north & cerbat mills

HAZEN RESEARCH, INC.

4601 INDIANA STREET
GOLDEN, COLORADO • 80401
TELEPHONE 303/279-4501

Mr. Stanley Gertner

Date: January 26, 1979
HRI Project: 002-52F
HRI Series: 14859
Samples Received: 1/5/79

REPORT OF ANALYSIS

Analysis No.	Sample Designation	% Cu	% WO_3	oz/ton Au	oz/ton Ag
14859-18	18	0.019	0.08	0.041	16.01
-19	19	0.007	<0.01	<0.005	0.623
-20	20	0.009	0.01	0.009	3.350
-21	21	0.048	0.01	0.041	0.103
-22	22	0.020	0.01	0.238	0.493
-23	23	0.005	<0.01	<0.005	<0.005
-24	24	0.009	0.02	0.080	0.498
-25	25	0.160	0.02	0.095	3.301
-26	26	0.097	<0.01	0.180	0.507
-27	27	0.570	<0.01	0.552	0.363
-28	28	0.258	0.08	0.036	0.149
-29	39	0.047	<0.01	<0.005	0.134
-30	30	0.028	<0.01	0.025	0.203
-31	31	0.234	0.02	0.497	3.751

By: John C. Jarvis
John C. Jarvis
Manager, Analytical Laboratory

cls

HAZEN RESEARCH, INC.

4601 INDIANA STREET
GOLDEN, COLORADO · 80401
TELEPHONE 303/279-4501

Mr. Stanley Gertner
601 E. 9th Street
Cushing, Oklahoma 74023

Date: January 26, 1979
HRI Project: 002-52F
HRI Series: 14859
Samples Received: 1/5/79

REPORT OF ANALYSIS

Analysis No.	Sample Designation	% Cu	% WO_3	oz/ton Au	oz/ton Ag
14859 -1	1	0.195	<0.01	<0.005	0.539
-2	2	0.044	<0.01	0.326	0.087
-3	3	0.057	<0.01	0.057	1.032
-4	4	0.057	<0.01	0.033	0.161
-5	5	0.007	<0.01	0.077	1.603
-6	6	0.007	<0.01	<0.005	<0.005
-7	7	0.036	<0.01	0.019	1.124
-8	8	0.161	<0.01	0.693	1.713
-9	9	0.084	<0.01	0.265	0.427
-10	10	0.184	<0.01	0.012	1.080
-11	11	0.363	<0.01	1.151	3.546
-12	12	0.082	<0.01	0.201	0.249
-13	13	0.012	0.11	1.229	0.505
-14	14	0.006	<0.01	0.126	0.796
-15	15	0.194	0.02	0.133	9.225
-16	16	0.007	<0.01	<0.005	0.125
-17	17	0.034	<0.01	0.055	0.215

DRILL LOGS C-1, 2, 3
BOX CANYON
Mohave Co, Ariz.

DRILL LOG EXPLANATION

PROJECT BOX CANYON DISTRICT GOLD BUG COUNTY MOHAVE STATE ARIZONA

ROCK TYPES

- [x] granite gneiss
- [x] mafic gneiss
- [ ] pegmatite & granite
- [x] diabase
- [ ] tert. dikes
- [x] monzonite
- [ ]
- [ ]
- [ ]
- [ ]

TIME-ROCK UNITS

METALLIZATION

ALTERATION TYPES

- [ ] sericite
- [x] clay
- [x] chlorite
- [ ]
- [ ]
- [ ]

Dips Recorded: All recorded dips touch the scale bar and have been measured in relation to the core axis. For emphasis, each dip is also elongated, extending beyond the limits of the log column.

Superscripts:

+	strong	−	weak
±	moderate	•	trace

MISCELLANEOUS

~ contact observed

..... contact, gradational or approximate

rectonic breccia
fracture or fault

I → incipiently altered to
P → partially altered to
T → totally altered to

TM, TS est. total metallization or total sulfides, in volume percent

HOLE NO. C-1(NX) **DRILL LOG** PAGE 1 OF 6

PROJECT Box Canyon T.D. 303.0' COLLAR ELEVATION 2883'

CONTRACTOR Grubbs & Sons Drilling Co. INCLINATION -90° BEARING —

DATE STARTED 3 Feb 75 COMPLETED 6 Feb 75 COORDINATES 20 464 N & 21 426 E

LOGGED BY R. C. J. SURVEY REFERENCES

INT. & Sample No.	Cu	Mo	Pb	Zn	Au (oz/ton)		Hole Size & % Recovery	Visual Estimates Zones			Orig. Tot. Sulf.	Assay Ave.
10.0							Rotary 10.0					
10927	530	10	<10	725	<0.003		31%					
20.0							20.0				10%	
10928	385	10	<10	180	<0.003		48%					
30.0							30.0					
10929	560	30	<10	405								
3.0							NX					
10930	.15%	2	10	730			90%	Oxide			+3%	
40.0							40.0					
10931	.15%	3	10	400			74%				8%	
45.5							45.0					
10932	425	3	<10	145			74%					
50.0							50.0					
10933	225	2	<10	105			37%				3%	
60.0							60.0					

LOG Scale: 1" = 10'

Alteration

0
10
20
30
40
50
60

No core

1" goe, py bxwk

1/2" hem, goe bxwk

hem, goe

1" qtz w/ hem

1/4" hem, goe

3/16" qtz, hem, goe

largely hem smrs

1/4" goe, hem

jar, hem

Rock Unit: PG Gneiss

Notes & Sketches

Gneiss, Precambrian. Strgly broken. Totally arg'd (largely supergene). Heavily goe- & hem-stained w/ locally jar.

10.0 – 33.0: Qtzo-feldspathic. Alt'd to clay w/ qtz grains. 10% arg silt.

33.0 – 45.5: Melanocratic. Clay & chlor alt'd. Probably amph-plag gneiss. Not broken or shattered as much, but many shear planes w/o off-set. Occ qtzo-feldspathic bands.

45.5 – 70.0: Qtzo-feldspathic. Totally alt'd to clay w/ qtz grains. Strgly shattered. Possibly a pegmatite.

HOLE NO. C-1 . **DRILL LOG** PAGE 2 OF 6

PROJECT Box Canyon T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY R.C.J. SURVEY REFERENCES _____

ASSAYS (PPM) — INT. & Sample No. — HOLE SIZE & % RECOVERY — VISUAL ESTIMATES — ASSAY AVE. — LOG Scale: 1" = 10' — ROCK UNIT — NOTES & SKETCHES

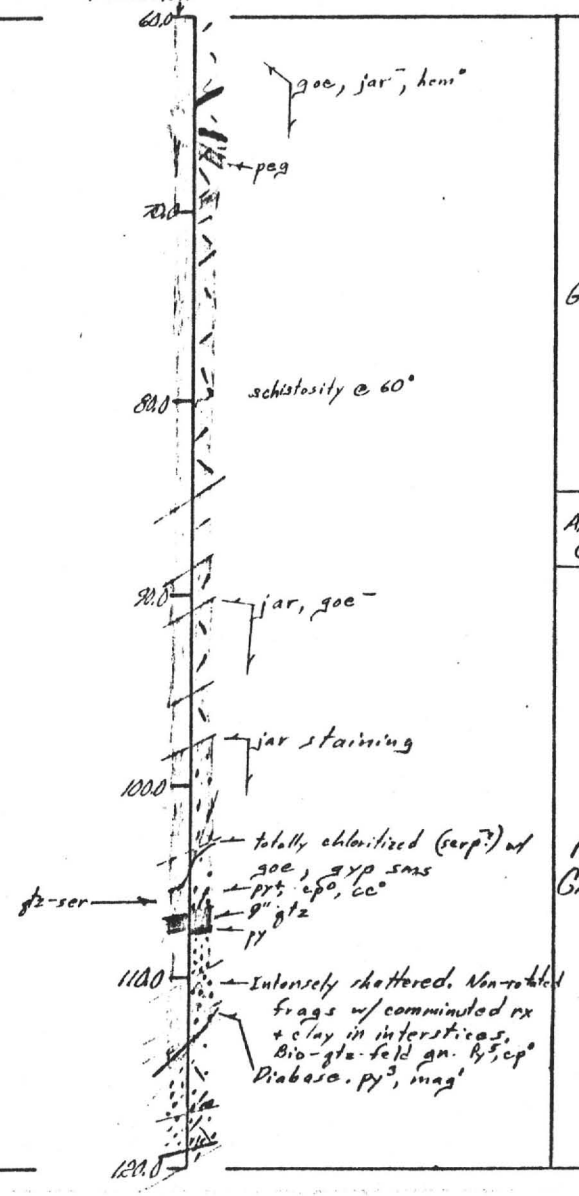
Int.	Sample No.	Cu	Mo	Pb	Zn	Au	Ag
60.0							
	10934	205	1	<10	85		
65.0							
	10935	240	<1	<10	170		
70.0							
	10936	630	17	10	760		
75.0							
	10937	770	3	10	990		
80.0							
	10938	540	16	10	550		
84.7							
88.5							
	10939	0.0600	0.0013	0.0010	0.0790		
95.0							
	10940	0.0490	0.0028	0.0010	0.0565		
103.5							
	10941	0.11	0.0022	0.0010	0.11	<0.003	0.03
113.5							
	10942	0.11	0.0017	0.0010	0.0470	<0.003	<0.03
120.0							

Hole size & % recovery: 60.0; 94%; 65.0; 64%; 70.0; 100%; 75.0; 100%; 80.0; 56%; 85.0; 100%; 90.0; 84%; 95.0; 70%; 100.0; 90%; 105.0; 96%; 110.0; 70%; 112.0; 62%; 117.0; 83%; 120.0

Zones: Oxide; Sulfide; NX

Orig. Tot Sulf.: 5%; 3%; 1%; 3%; 5%; 3%; 5%

Alteration



ROCK UNIT: PC Gneiss; Andesite (Tert?); PC Gneiss

NOTES & SKETCHES:

70.0–84.7: Mafic gn (sch?). Moderate remnant coarse biotite. Altᵈ to clay & chlorite.

84.7–88.5: Coarse-grained andesite. Mafics I→chl. Feld I→clay. 1% goe after py on frs.

88.5–91.0: Bio-plag schist. Fine-grnd. Bio I→chlor; Plag I→clay.

91.0–103.5: Pegmatite

113.6–120.0: Pegmatite.

HOLE NO. C-1

DRILL LOG

PROJECT Box Canyon

T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____

INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____

COORDINATES _____

LOGGED BY RCJ

SURVEY REFERENCES _____

ASSAYS

INT. + Sample No.	Cu	Mo	Pb	Zn	Au	Ag
120.0						
10943	0.0280	0.0019	0.0010	0.0060		
123.7						
10944	0.0755	0.0013	0.0010	0.12	<0.003	<0.03
129.5						
10945	0.0325	0.0006	0.0010	0.0065	<0.003	<0.03
140.0						
10946	0.0035	0.0008	<0.0010	0.0020		
150.0						
10947	0.0060	0.0008	0.0010	0.0065		
160.0						
10948	0.0035	0.0023	0.0010	0.0015		
164.5						
10949	0.0030	0.0019	0.0010	0.0025		
174.1						
10950	0.0030	0.0004	0.0010	0.0050		
176.0						

HOLE SIZE & % RECOVERY

120.0, 109%, 125.0, 96%, 130.0, 100%, 135.0, 100%, 140.0, 102%, 145.0, 102%, 150.0, 51%, 154.5, 91%, 160.0, 87%, 164.5, 98%, 169.5, 115%, 171.5, 100%, 176.5, 94%, 180.0

NX

VISUAL ESTIMATES

ZONES: Sulfide

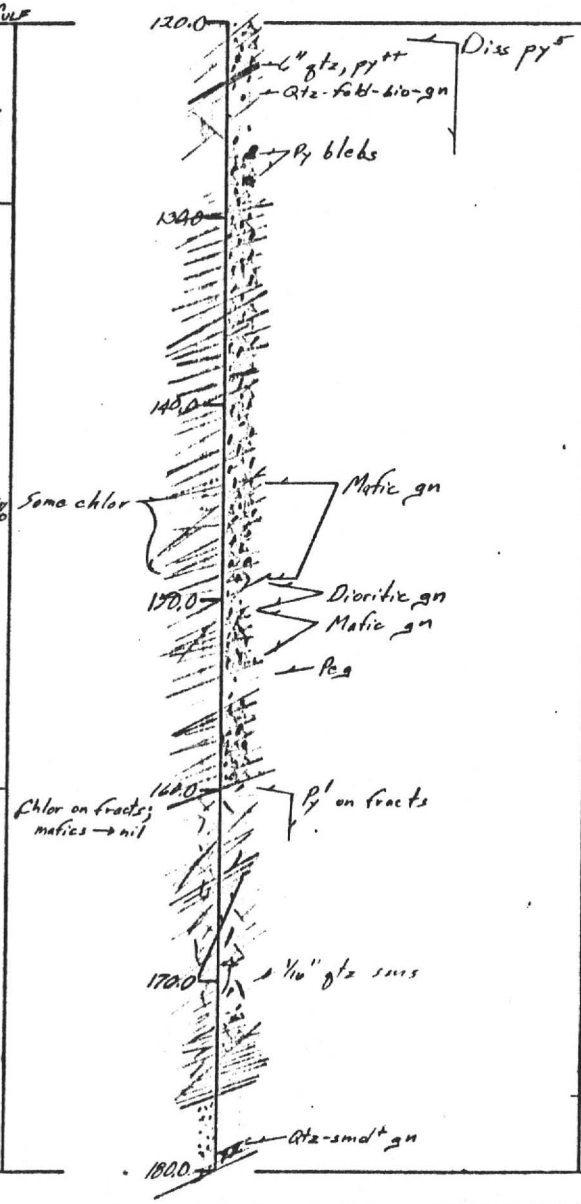
ASSAY AVE.: Tot Sulf

5%

? 3-5% ?

LOG

Scale: 1" = 10'



ROCK UNIT / NOTES & SKETCHES

ROCK UNIT	NOTES & SKETCHES
PC GNEISS	120.0–129.5: Intensely shattered, comminuted. Almost mylonite, locally.
FAULT	129.5–160.0: Fault: Intensely mashed, sheared gneiss. Frags and angular qtz grains in clay. Frags of py + bands of gry, finely-ground sulfide. Total sulfide difficult to estimate.
PC GNEISS	160.0–174.1: GNEISS: Strongly shattered, chlor on fracts. Feld → clay. Foliation at ±45° to 70°. Med-grnd, qtzo-feld, leucocratic. Py on fracts.
FAULT	174.1–176.0: FAULT.
	176.0–180.0: BASALT DIKE: Blk, slightly porphyritic.

HOLE NO. C-1

DRILL LOG

PROJECT Box Canyon

T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____

INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____

COORDINATES _____

LOGGED BY RCJ

SURVEY REFERENCES _____

ASSAYS

INT. & Sample No.	Cu	Mo	Pb	Zn	Au	Ag
180.0						
10951	0.0045	0.0011	0.0010	0.0030		
190.0						
10952	0.0010	0.0016	<0.0010	0.0010		
199.0						
228.5						
10953	0.0175	0.0003	0.0010	0.11		
235.0						

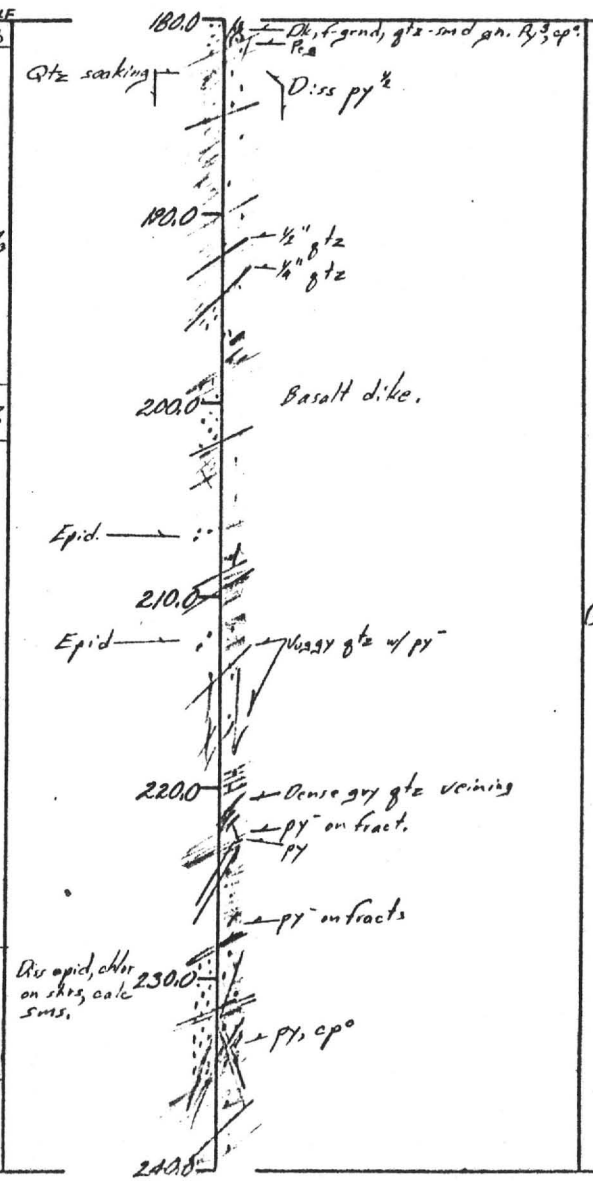
HOLE SIZE & % RECOVERY: 184.0; 102%; 185.0; 98%; 190.0; 101%; 195.0; 90%; 200.0; 93%; 204.5; 104%; 209.5; 104%; 214.5; 80%; 220.0; 100%; 225.0; 100%; 234.0; 100%; 235.0; 92%; 240.0

VISUAL ESTIMATES — ZONES: Sulfides

ASSAY AVE.: Tot Sulf 3%; ½%; 0%; <½%; 3%; <½%

LOG

Scale: 1" = 10'



ROCK UNIT: PC GNEISS

NOTES & SKETCHES

180.0-274.5 ; GNEISS;

182.0-223.0: Generally leuco-cratic, med-grnd w/ weak to indist. not foliation.

223.0-235.0: Mafic, fine-grnd.

HOLE NO. C-1

DRILL LOG

PROJECT Box Canyon

T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____

INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____

COORDINATES _____

LOGGED BY RCd

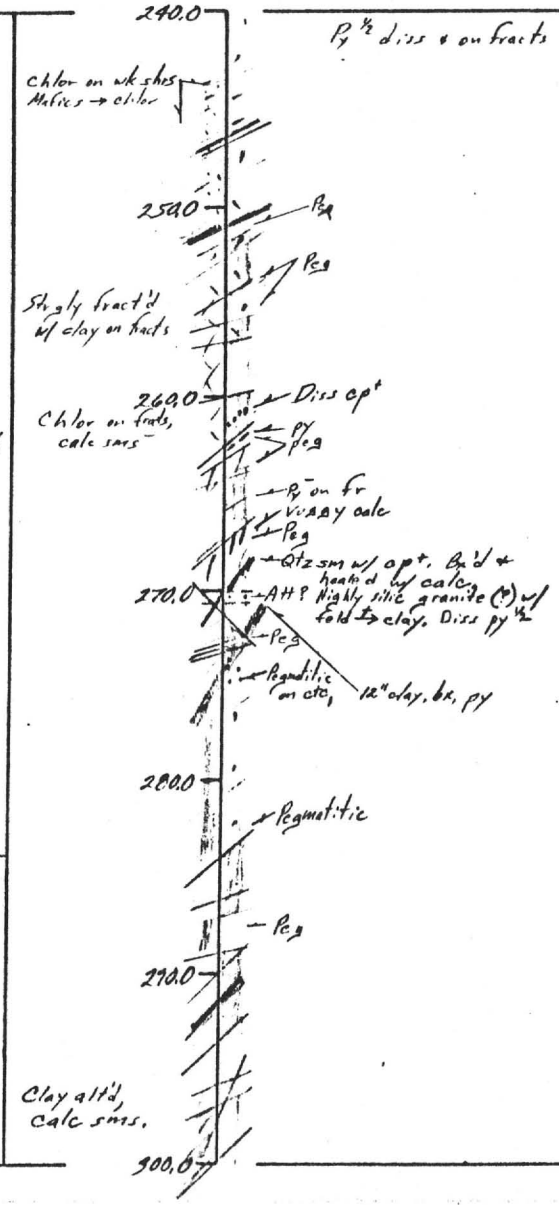
SURVEY REFERENCES _____

ASSAYS: INT. & Sample No.	Cu	Mo	Pb	Zn	Au	Ag
254.0						
10954	0.0190	0.0019	0.0010	0.0075		
260.0						
10955	0.0335	0.0019	0.0020	0.0190		
262.5						
10956	0.0115	0.0008	0.0010	0.0720		
268.0	/	/	/	/		
10957						
270.0						
10958	0.0185	0.0006	0.0020	0.0070		
274.5						
10959	0.0040	0.0020	0.0010	0.0015		
284.0						

HOLE SIZE 4 % RECOVERY: 240.0, 100%, 245.0, 84%, 250.0, 83%, 254.0, 80%, 258.0, 86%, 263.0, 84%, 268.0, 65%, 270.0, 78%, 275, 92%, 280.0, 100%, 284.0, 100%, 289.0, 100%, 294.0, 85%, 298.0, 100%

VISUAL ESTIMATES — ZONES: Sulfide

ASSAY AVE.: ½%; Tr



ROCK UNIT	NOTES & SKETCHES
PC GNEISS	241.0-244.0: V-silic gneiss. Doubtful silicification related to Laramide intrusive event.
GRANITE(?)	274.5-284.0: Granite (?): Uncertain age. Fine-med-grnd, silic, Feld → clay. Pegmatitic on cts. Strongly calcareous.
	284.0-303.0: GNEISS. 286.0-302.0: Similar to above granite, but often foliated & contains bands of mafics locally.

HOLE NO. C-1

DRILL LOG

PROJECT Box CANYON

T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____

INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____

COORDINATES _____

LOGGED BY RCJ

SURVEY REFERENCES _____

ASSAYS INT.						HOLE SIZE & % RECOVERY	VISUAL ESTIMATES ZONES				ASSAY AVE.	LOG Scale: 1"=10'	ROCK UNIT	NOTES & SKETCHES
						N/X 303.0	Suff.					300.0		303.0: BOTTOM OF HOLE.

HOLE NO. C-2 (NX)

DRILL LOG

PROJECT Box Canyon

T.D. 483.0'

COLLAR ELEVATION 2827'

CONTRACTOR Grubbs & Sons Drilling Co.

INCLINATION -90°

BEARING —

DATE STARTED 11 Feb 75 COMPLETED 15 Feb 75

COORDINATES 21384N & 21328E

LOGGED BY R. C. J.

SURVEY REFERENCES

ASSAYS INT. & Sample No.	Cu	Mo	Pb	Zn	Ag	Au	HOLE SIZE & % RECOVERY	VISUAL ESTIMATES ZONES	ASSAY AVE. CRIO TOT. SUL	LOG Scale: 1" = 10'	ROCK UNIT	NOTES & SKETCHES
										0.0		
										10.0	O/B	0.0-23.0: OVERBURDEN.
										20.0		
23.0							23.0 80%		8%	goe+, hem-, jar	GNEISS	23.0-24.5: GNEISS.
10961	0.0730	0.0008	0.0010	0.0300	<0.003	0.03	25.5 91%	NX Oxide			FAULT	24.5-52.2: FAULT; Sheared, argillized gneiss. Mod goe+, jar, hem-
30.0							30.0 84%			30.0		
10962	0.12	0.0013	0.0010	0.1000	<0.003	0.06	35.0 100%		?.5%			
40.0							40.0 98%			40.0		
10963	0.11	0.0003	0.0020	0.0890	<0.003	<0.03	45.0 98%					
52.2							50.0 98%			50.0 Mn Ox	SHEARED DIKE	52.2-63.5: SHEARED DIKE: Probable Tertiary dike. Totally argillized & sheared.
							55.0 92%					
							60.0			60.0		

HOLE NO. C-2

DRILL LOG

PROJECT Box CANYON

T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____

INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____

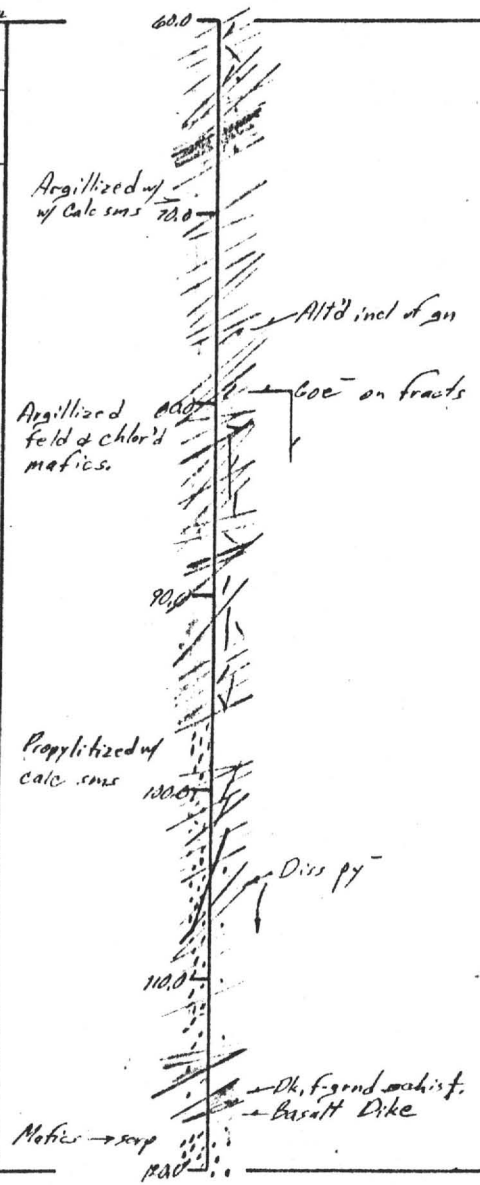
COORDINATES _____

LOGGED BY R.C.J.

SURVEY REFERENCES _____

ASSAYS INT. & Sample No.	Cu	Mo	Pb	Zn	Ag	Au	HOLE SIZE & % RECOVERY	VISUAL ESTIMATES ZONES	ASSAY AVE. Dria Tot Sul
							60.0		
							84%		
63.5							62.5		
10964	0.0125	0.0004	0.0010	0.0240			98%		8.3%
67.5							67.5		
							93%		
							72.0		
							110%		
							74.0		
79.5							97%		
10965	0.0065	0.0005	0.0010	0.0125			84.0	Oxide	
							86%		
89.0							89.0		
							84%		
10966	0.0030	0.0016	0.0010	0.0075			94.0		
96.0							100%		
							99.0		
							98%		
104.0							104.0		
							96%		
10967	0.0020	<0.0001	<0.0010	0.0030			109.0		<½%
							100%		
114.0							114.0	Sulfide	
10968							106%		
							112.0		1%

LOG Scale: 1" = 10'



ROCK UNIT	NOTES & SKETCHES
SHEARED DIKE	
SHEARED GNEISS	63.5–67.5: SHEARED GNEISS: Intensely sheared, Fe-stnd, qtzo-feld gneiss
DIKE	67.5–79.5: DIKE: As above, but w/o MnOx & less sheared. Faint phenos evident downward (chloritized mafics).
PC GNEISS	79.5–96.0: GNEISS: Mesocratic qtz-feld gneiss. Mafics → chlor
BASALT DIKE	96.0–104.0: BASALT DIKE: Dk gry, v-f-grnd. Propylitized w/ calc sms, Probably Tertiary.
PC GNEISS	104.0–119.0: GNEISS: Leuco- to mesocratic, med-grnd, qtzo-feld gn, locally melanocratic, grading to schist. Foliation @ ±60° to core

HOLE NO. C-2

DRILL LOG

PROJECT Box Canyon

CONTRACTOR

DATE STARTED COMPLETED

LOGGED BY R.Cad.

T.D. COLLAR ELEVATION

INCLINATION BEARING

COORDINATES

SURVEY REFERENCES

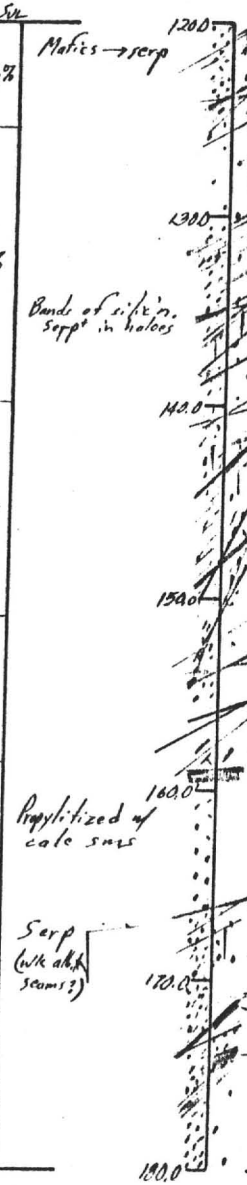
ASSAYS INT. & Sample No.	Cu	Mo	Pb	Zn	Ag	Au
124.5						
10968	0.0165	<0.0001	0.0010	0.0150		
130.0						
10969	0.0095	0.0002	0.0010	0.0150		
140.0						
10970	0.0060	0.0001	0.0010	0.0115	<0.003	0.03
150.0						
10971	0.0310	0.0001	0.0010	0.0105		
159.7						
166.0						
10972	0.0055	<0.0001	0.0010	0.0120		
174.5						
10973	0.0090	<0.0001	0.0010	0.0120		

HOLE SIZE & % RECOVERY: 87% 124.5; 96% 130.0; 94% 135.0; 100% 140.0; 102% 145.0; 98% 150.0; 100% 154.0; 96% 159.0; 84% 163.5; 75% 169.0; 96% 174.5; 91% 180.0

VISUAL ESTIMATES — ZONES: Mix; Sulfide

ASSAY AVE. — Tot Sul: <½%; ½%; 1%; Tr

LOG Scale: 1" = 10'



ROCK UNIT	NOTES & SKETCHES
PC GNEISS	
BASALT DIKE	159.7–166.0: BASALT DIKE: Same as above dikes.
PC GNEISS	166.0–225.0: GNEISS: Finely banded rock. Composed mainly of serp & qtz. Wk seams of albite(?).

HOLE NO. C-2 **DRILL LOG** PAGE 4 OF 9

PROJECT Box Canyon T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____ INCLINATION _____ BEARING _____

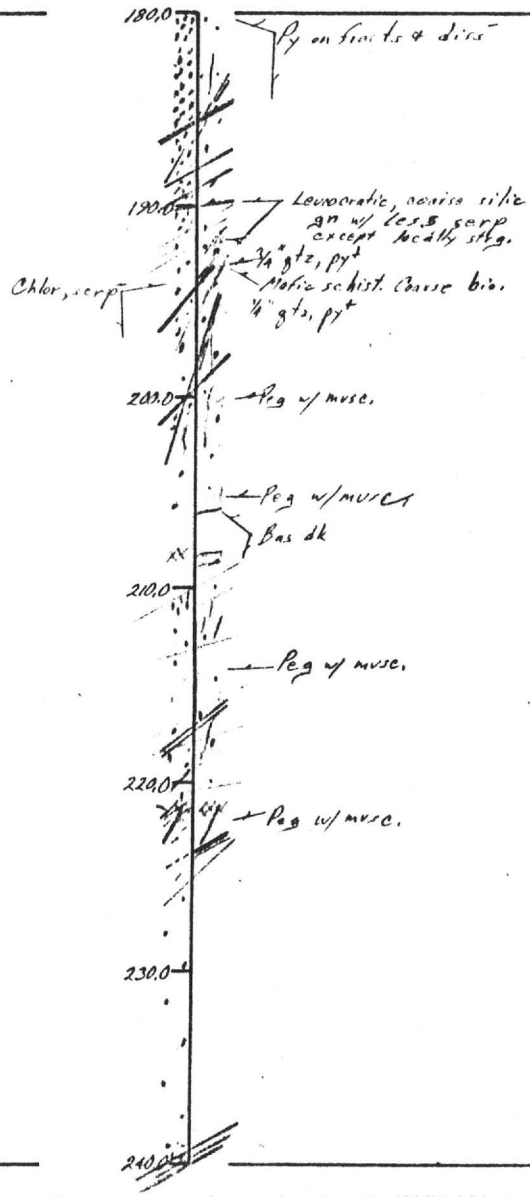
DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY RCJ SURVEY REFERENCES _____

ASSAYS INT. & Sample No.	Cu	Mo	Pb	Zn	Ag	Au	HOLE SIZE 4 % RECOVERY	VISUAL ESTIMATES ZONES	ASSAY AVE. TOT SUL
185.0							100% 185.0		
10974	0.0280	0.0003	0.0010	0.0100			82% 190.0		1%
195.0							81% 195.0		
10975	0.0530	0.0003	<0.0010	0.0030			80% 200.0		
206.0							89% 203.5		
210.0							100% 208.0		<½%
10977	0.0035	<0.0001	<0.0010	0.0025			92% 210.0		
220.0							96% 215.0		
10978	0.0010	<0.0001	0.18	0.0015			98% 220.0		
225.0							87% 223.0		
							98% 230.0		
							96% 235.0		
							88% 240.0		

N/X Sulfide

LOG Scale: 1" = 10'



ROCK UNIT	NOTES & SKETCHES
PC GNEISS	193.0: Gneiss changes downward to alternating mafic bands and coarse qtzo-feld gneiss. Mafics ⊢ chlor, locally ⊢ serp. Py ½
BASALT DIKE	225.0-242.4: BASALT DIKE: As above. Prob. Tert.

HOLE NO. C-2

DRILL LOG

PROJECT Box Canyon

T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____

INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____

COORDINATES _____

LOGGED BY RCJ

SURVEY REFERENCES _____

ASSAYS INT. & Sample No.	Cu	Mo	Pb	Zn	Ag	Au	HOLE SIZE & % RECOVERY	VISUAL ESTIMATES ZONES	ASSAY AVE. TOT SUL	LOG Scale: 1" = 10'	ROCK UNIT	NOTES & SKETCHES
242.4							240.0 100%			240.0 Mafics I→chlor.	BASALT DIKE	
10979	0.0045	<0.0001	0.0020	0.0025			245.0 86%		<½%		PC GNEISS	242.4–261.5: GNEISS: Same as note at 193.0.
250.0							250.0 98%			250.0		
10980	0.0020	<0.0001	<0.0010	0.0015			255.0 64%		1%	Intensely shattered & sheared.		
255.0							259.5 83%		<½%	260.0 Py?		
10981	0.0200	<0.0001	0.0010	0.0010			263.5 93%			Ropy! (–) Bn	BASALT DIKE	261.5–265.5: BASALT DIKE!
261.5							266.5 86%			Bx, clay, chlor.		
265.5							270.0 92%			270.0 Py	FAULT	265.5–273.0: FAULT:
10982	0.0285	<0.0001	<0.0010	0.0050			275.0 93%			Mafics P→chlor		
273.0							278.0 85%			280.0 Py, cp(?)	PC GNEISS	273.0–230.5: GNEISS: Med-coarse, gneo-feldt w/ close-spaced bands of mafic mins. Foliation ∠50° to core.
10983	0.0040	<0.0001	<0.0010	0.0055			288.0 100%		<½%	290.0		
288.0							293.0 80%					
10984	0.0015	<0.0001	<0.0010	0.0085			297.0 82%			300.0		
297.0												

Sulfide

HOLE NO. C-2 **DRILL LOG** PAGE 6 OF 9

PROJECT Box CANYON T.D. _____ COLLAR ELEVATION _____

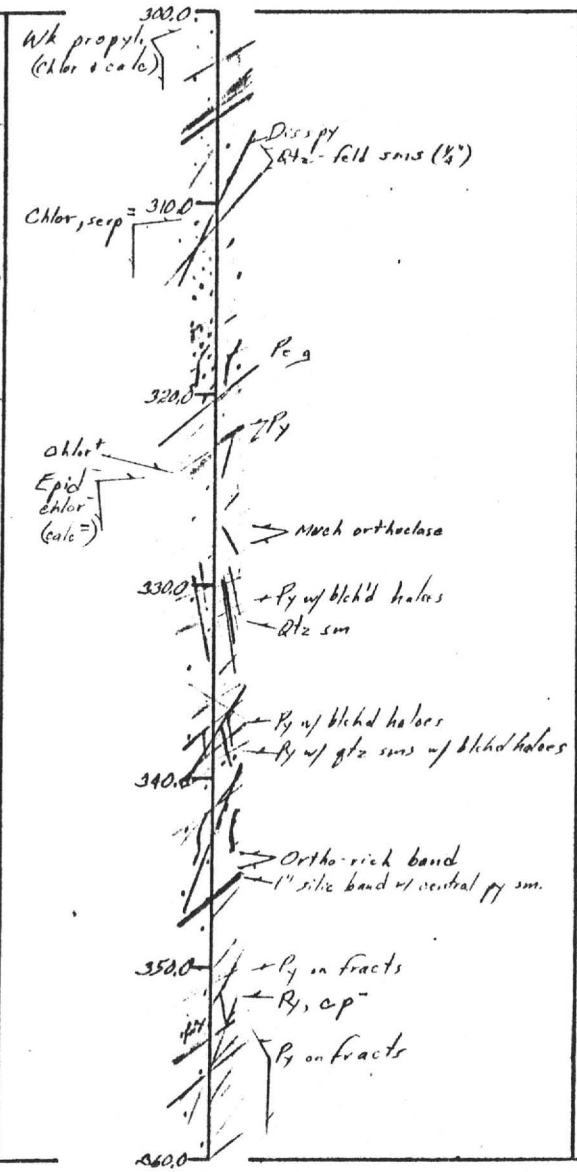
CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY RCJ SURVEY REFERENCES _____

ASSAYS INT. Sample No.	Cu	Mo	Pb	Zn			HOLE SIZE & % RECOVERY	VISUAL ESTIMATES ZONES	ASSAY AVE. Tot Sul
	PPM								
10985	100	<1	10	70			300.0 100%		
308.0							308.0 110%		
10986	155	19	<10	90			310.0 100% 313.0 96%		<½%
320.5							320.0 97%		
10987	150	17	10	145			323.0 87%		
329.0							329.0 NX 100%		½%
10988	125	20	10	125			334.0 98%		
339.0							339.0 102%		2%
10989	75	17	10	130			344.0 94%		½%
349.0							349.0 90%		
10990	180	25	10	175			354.0 100%		1%
359.0							359.0		

LOG scale: 1" = 10'



ROCK UNIT	NOTES & SKETCHES
PC GNEISS	
PC(?) MONZ	320.5 – 362.0: MONZONITE: Meso-cratic, med-grnd, non-foliated. Mafics (bio, hnbld) 30%, Plag 45%, ortho 25%.
	340.0-345.0: Faint banding at 40° to core.
	345.0 – 362.0: Distribution of mafics irreg, leaving leucocratic bands or patches. Still not foliated. Leuco bands usually high in ortho. Locally stg mag.

HOLE NO. C-2 **DRILL LOG** PAGE 7 OF 9

PROJECT Box CANYON T.D. _____ COLLAR ELEVATION _____

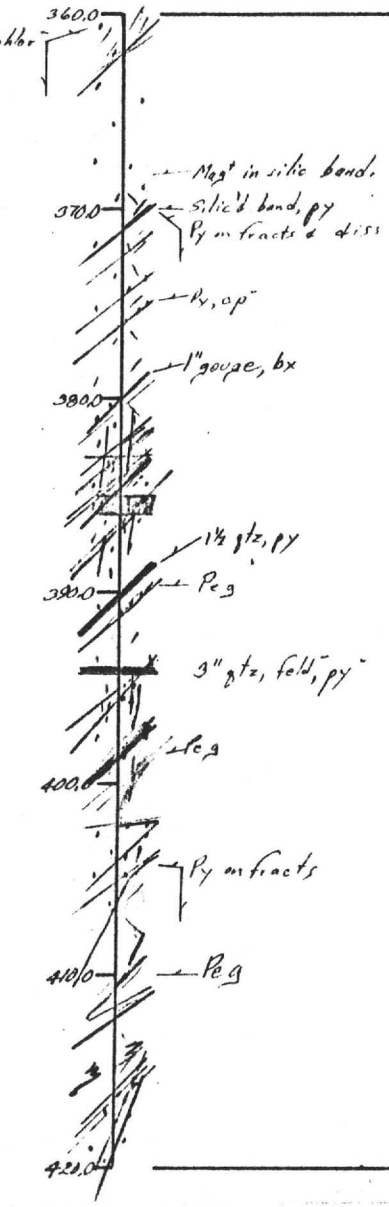
CONTRACTOR _____ INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____ COORDINATES _____

LOGGED BY R. C. J. SURVEY REFERENCES _____

ASSAYS INT. & Sample No.	Cu	Mo	Pb	Zn	Ag	Au	HOLE SIZE 4 % RECOVERY	VISUAL ESTIMATES ZONES	ASSAY AVE. Tot Sul
							102%		1%
10991	80	22	10	105			364.0		
							118%		2½%
368.0							369.0		
							98%		
10992	145	30	10	195			373.0		
							96%		1%
378.0							378.0		
							100%		
10993	120	47	10	125			383.0		5%
							102%		
388.0							388.0		
							100%	NX	
994	100	29	10	845			393.0	Sulfide	2%
							100%		
398.0							398.0		
							88%		
10995	35	16	10	60			402.0		1%
							25%		
407.5							407.5		
							76%		
							410.0		
							94%		
415.0							415.0		½%
10996	110	17	<10	160			104%		
							420.0		

LOG Scale: 1" = 10'



ROCK UNIT	NOTES & SKETCHES
MONZ.	362.0– : GNEISS : Meso-cratic bio-hornblde feld gn. Locally silic bands. Variable grn-size. Mod-strg mag, esp in silic bands. Banding at 40-70° to core.
PC GNEISS	: 370.0 : Becomes melanocratic downward. Except for foliation & more qtz, appears much like Monzonite above.
PEGMATITE	
PC GNEISS	

HOLE NO. C-2

DRILL LOG

PAGE 2 OF 2

PROJECT Box CANYON

CONTRACTOR

DATE STARTED COMPLETED

LOGGED BY RCJ

T.D.

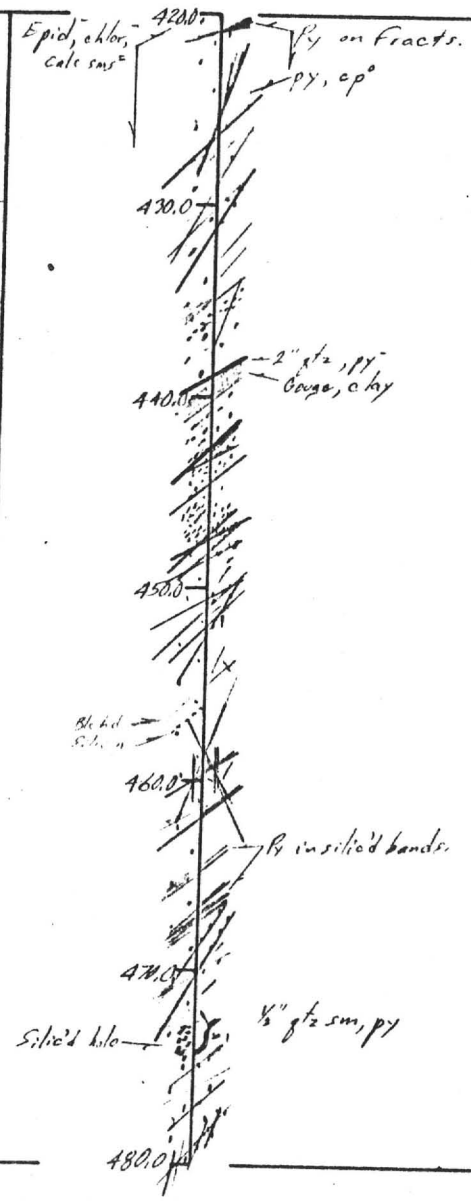
COLLAR ELEVATION

INCLINATION BEARING

COORDINATES

SURVEY REFERENCES

ASSAYS INT. Sample No.	Cu	Mo	Pb	Zn	Ag	Au	HOLE SIZE 4 % RECOVERY	VISUAL ESTIMATES ZONES	ASSAY AVE.	LOG Scale: 1" = 10'	ROCK UNIT	NOTES & SKETCHES
427.0							91% 427.0		½%			
10997	125	26	10	165			100% 432.0					
437.0							437.0		1-2%			
10998	80	25	<10	135			442.0					
442.0							NR 447.0	Sulfide			PC GNEISS	
9999	45	23	10	140			452.0					
457.0							457.0		1%			
11000	60	20	<10	160			462.0					
462.0							467.0					
14288	40	22	10	125			472.0					
472.0							477.0					



HOLE NO. C-2

DRILL LOG

PROJECT Box Canyon

T.D. 483.0'

COLLAR ELEVATION

CONTRACTOR

INCLINATION

BEARING

DATE STARTED

COMPLETED

COORDINATES

LOGGED BY RCJ

SURVEY REFERENCES

ASSAYS INT. & Sample No.	Cu	Mo	Pb	Zn	Ag	Au	HOLE SIZE & % RECOVERY	VISUAL ESTIMATES ZONES				ASSAY AVE. Tot Sul	LOG Scale: 1" = 10'	ROCK UNIT	NOTES & SKETCHES
14290 483.0	170	10	10	230			NX 483.0	Sulfide				1%	480.0 483.0' T.D.	PC GNEISS	483.0: Bottom of Hole

HOLE NO. C-3

DRILL LOG

PROJECT Box CANYON

T.D. 304.0'

COLLAR ELEVATION 2847'

CONTRACTOR Grubbs & Sons Drilling Co.

INCLINATION -90'

BEARING

DATE STARTED 15 Feb 75 COMPLETED 18 Feb 75

COORDINATES 24614 N & 21500 E

LOGGED BY R.C.J.

SURVEY REFERENCES

ASSAYS INT. & Sample No.	Cu	Mo	Pb	Zn	Ag	Au
17.0						
14293	380	119	10	105	<0.03 oz/t	<0.003 oz/t
25.0						
14294	230	45	10	100		
35.0						
14295	250	93	10	130		
44.5						
14297	265	102	<10	60		
54.0						
14298	315	93	20	50	<0.03 oz/t	<0.003 oz/t
59.0						

HOLE SIZE & % RECOVERY: Rotary; NX; Rotary

VISUAL ESTIMATES ZONES: Oxide; Mixed

ASSAY AVE.: ORE TOT. SUL.; 5%

LOG Scale: 1" = 10'

0.0; 10.0; 20.0; 30.0; 40.0; 50.0; 60.0

17.0; 82%; 22.0; 100%; 27.0; 103%; 30.0; 98%; 35.0; 104%; 40.0; 89%; 44.5; 84%; 50.0; 97%; 56.0; 110%; 60.0

No core.

Clay, bx, goe at top.

Goe+, jar on fracts.

Sericite+, qtz sms, clay, Matics I→0

Strgly brkn

Clay on frac →

Py I goe+

Qtz-ser soaking →

Goe+, vugs + bawk after py General jar staining.

Patches of ser-qtz soaking

Ser-clay (-) Bio I→0

Py I→ goe

cc coatings on py

ROCK UNIT: PC GNEISS

NOTES & SKETCHES

0.0 – 109.8: GNEISS: Precambrian. Mesocratic bio-qtz-feld. Foliation @ 30-45° to core. Strg, pervasive ser-clay (-) w/ destruction of bio, except in patches. Some qtz smg.

HOLE NO. C-3

DRILL LOG

PROJECT Box CANYON

T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____

INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____

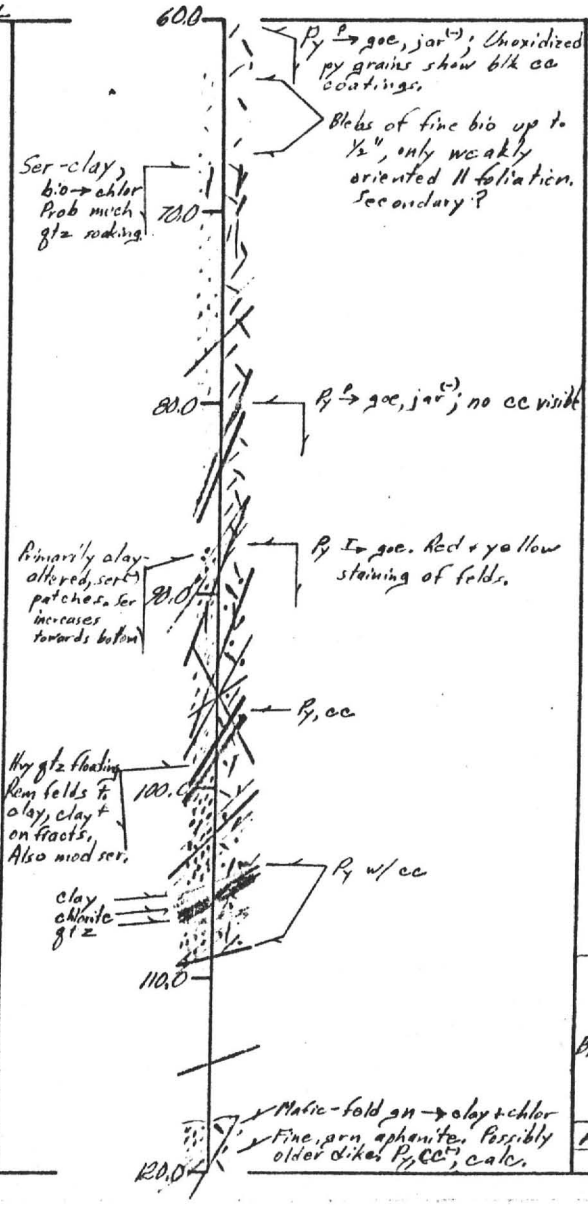
COORDINATES _____

LOGGED BY RCd

SURVEY REFERENCES _____

ASSAYS INT. & Sample No.	Cu	Mo	Pb	Zn	Ag	Au	HOLE SIZE & % RECOVERY	VISUAL ESTIMATES ZONES	ASSAY AVE. TOT SUL
60.0							60.0		
14299	320	96	10	40	<0.03 oz/t	<0.003 oz/t	96%		
65.0							65.0		
							86%		
70.0							70.0		
							96%		
14300	430	116	10	90	<0.03 oz/t	<0.003 oz/t	75.0		
							96%		
80.0							80.0		
							100%		5%
14337	290	130	<10	25	<0.03	<0.003	85.0		
							80%		
87.5							87.5		
14338	210	141	<10	25	<0.03	<0.003	80%	N/A	Mixed
93.5							93.5		
							100%		
14339	165	62	<10	25	<0.03	<0.003	98.5		
							92%		
104.5							103.5		
14340	0.11%	30	10	90	<0.03	<0.003	104%		2%
108.8							108.5		
							102%		
							113.5		
									0%
							72%		
117.5									2%
							120.0		

LOG Scale: 1" = 10'



ROCK UNIT	NOTES & SKETCHES
	87.0–108.8; Leuco-cratic qtz-fold gn. Med-to coarse-grnd. Almost pegmatitic texture.
BASALT	108.8–117.5: BASALT DIKE: Tertiary, dk-gry, finely-porph.
APHANITE	117.5–119.0; OLDER APHANITIC DIKE

HOLE NO. C-3

DRILL LOG

PROJECT Box Canyon

T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____

INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____

COORDINATES _____

LOGGED BY R.C.J.

SURVEY REFERENCES _____

ASSAYS

INT. + Sample No.	Cu	Mo	Pb	Zn	Ag	Au
14341	610	19	10	460		
125.0						
14342	180	123	20	60	0.03	<0.003
135.0						
14343	160	49	<10	25	<0.03	<0.003
14350						
14344	220	85	10	40	<0.03	<0.003
155.0						
14345	175	55	<10	25	<0.03	<0.003
165.0						
14346	290	8	10	50		
173.0						
14347	245	17	10	65		

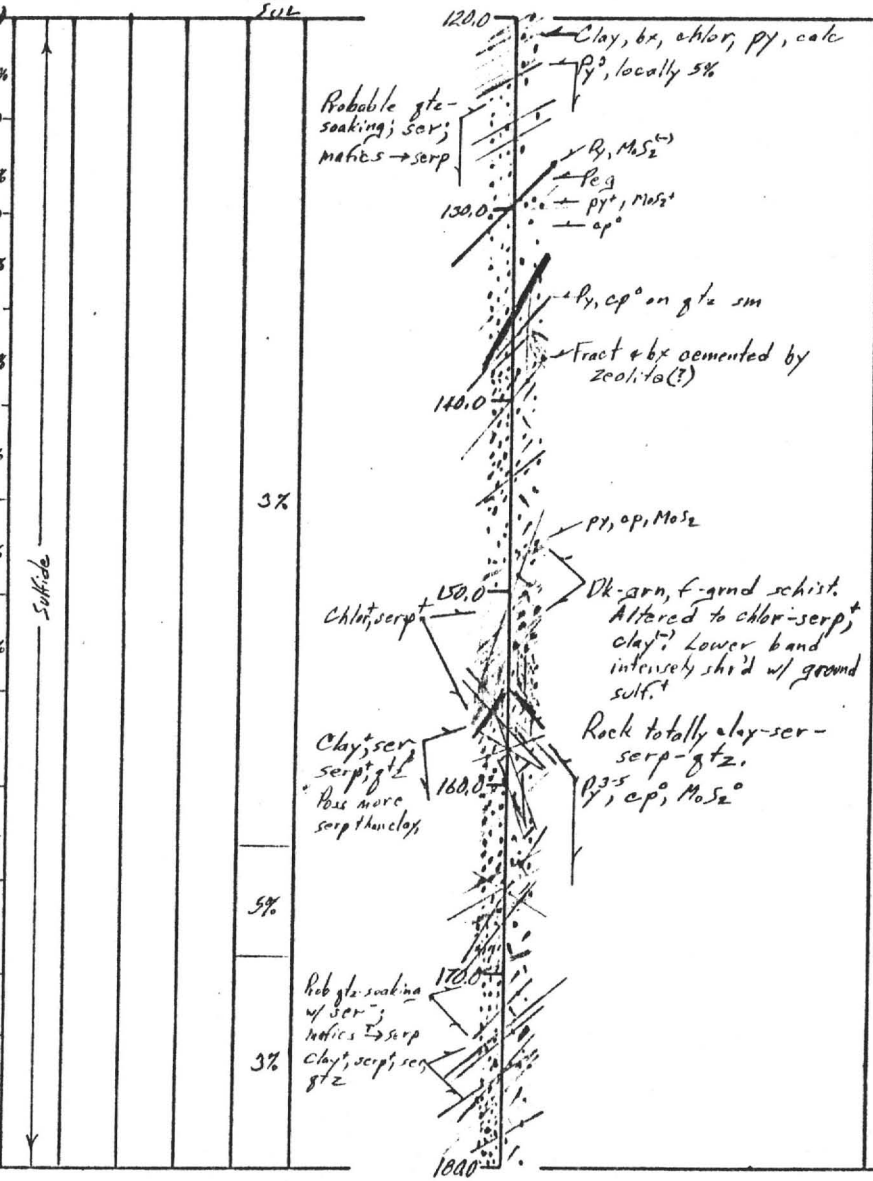
HOLE SIZE 4 %

RECOVERY

VISUAL ESTIMATES — ZONES

ASSAY AVE.

Tot Sul



ROCK UNIT

Pe GNEISS

NOTES & SKETCHES

119.0–304.0: GNEISS:

Lt gry to grn-gry, med-grnd. Rock consists almost entirely of qtz+, ser, clay(-)(?), serp and locally remnant feld.

HOLE NO. C-3

DRILL LOG

PROJECT Box Canyon

T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____

INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____

COORDINATES _____

LOGGED BY R.C.J.

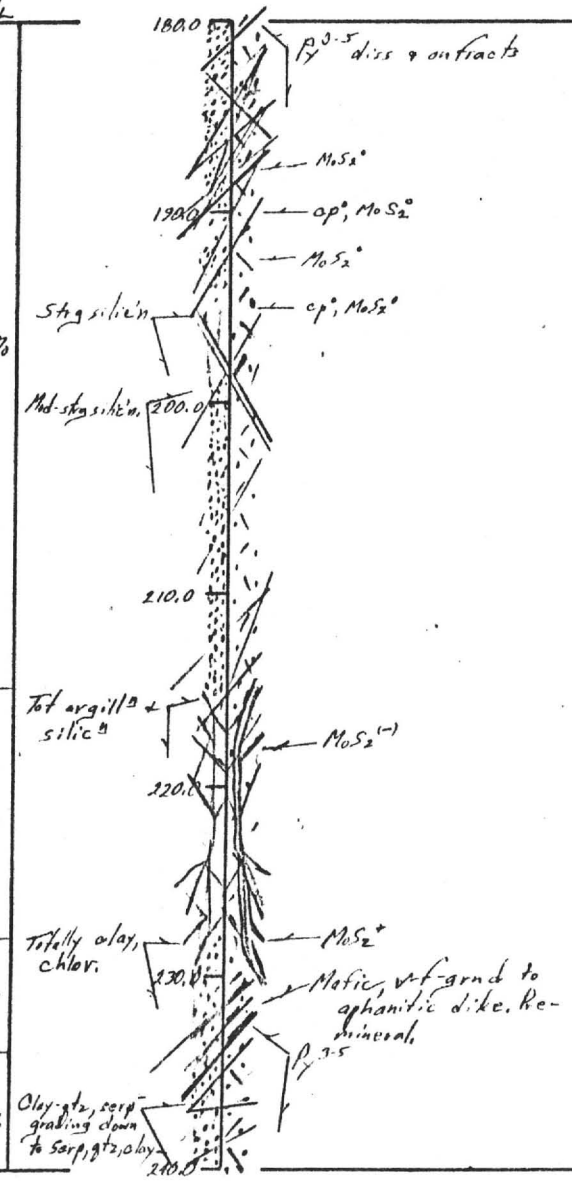
SURVEY REFERENCES _____

ASSAYS INT. + Sample No.	Cu	Mo	Pb	Zn	Ag	Au	HOLE SIZE 4 % RECOVERY	VISUAL ESTIMATES ZONES	ASSAY AVE. Tot SUL
183.0							94% 183.0		
14348	270	74	10	35			90% 188.0		
192.0							100% 192.0		
14349	180	3	10	25			98% 197.0		3%
203.5							105% 199.0		
14350	175	109	10	25			93% 203.5		
211.0							96% 206.0		
16426	90	26	10	20			92% 211.0		
220.0							97% 220.0		1%
16427	195	30	10	20			98% 225.0		
229.4							98% 230.0		
16428	840	32	20	250					3%
234.0									
16429	305	26	10	30					3-5%

NX

Sulfide

LOG Scale: 1" = 10'



ROCK UNIT: PC GNEISS

NOTES & SKETCHES

HOLE NO. C-3

DRILL LOG

PROJECT Box Canyon

T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____

INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____

COORDINATES _____

LOGGED BY RCJ

SURVEY REFERENCES _____

ASSAYS INT. & Sample No.	Cu	Mo	Pb	Zn	Ag	Au	HOLE SIZE & % RECOVERY	VISUAL ESTIMATES ZONES	ASSAY AVE.	LOG Scale: 1" = 10'	ROCK UNIT	NOTES & SKETCHES
							240.0		TOT SUL			
244.0							98%			Serp, qtz; Bx, serp, clay, qtz-frags, Py 3-5		
16430	120	30	10	25			245.0 104%		5%	Serp, clay, qtz frags		
252.5							250.0			Py 2-3		
16431	175	2	10	85			102%			cp°		
256.0							255.0					
							78%			Chloritic, qtz-sms; Bx, calc		256.0-290.0: Melanocratic schist. Bio-feld. Bio→chlor qtz-smd.
16432	285	15	20	260			259.5			260		
							76%			cp°		
267.0							267.0					
16433	185	10	10	220			100% 270.0	Sulfide		270	PE Gneiss	290.0-304.0: Coarse, mesocratic, bio-qtz-feld gneiss.
							16%					
273.0							275.0		3%	cp°		
							76%					
16434	735	3	20	300			280.0			280		
							84%			Wk chlor, calc sms + qtz sms Some serp.		
285.0							285.0					
							93%					
16435	310	8	20	85			290.0			290 Main strand sub-parallel to core. Grandsulfds.		
							90%					
							295.0					
297.0									1%	300		

HOLE NO. C-3

DRILL LOG

PROJECT Box CANYON

T.D. _____ COLLAR ELEVATION _____

CONTRACTOR _____

INCLINATION _____ BEARING _____

DATE STARTED _____ COMPLETED _____

COORDINATES _____

LOGGED BY RCJ

SURVEY REFERENCES _____

ASSAYS INT. Sample No.	Cu	Mo	Pb	Zn			HOLE SIZE & % RECOVERY	VISUAL ESTIMATES ZONES				ASSAY AVE. Tot Sul.	LOG Scale: 1"=10'	ROCK UNIT	NOTES & SKETCHES
16436	280	2	10	70				Sulfide				1%		RC GNEISS	3040: Bottom of Hole.
3040							3040								