

000785

9/16/68

Southwestern Labs

- ②⑤ NW R-39
- ②⑦ NECR-33
- ②⑧ NECR-51
- ②⑨ NECR-43
- ②⑩ NW R-50
- ②⑪ NECR-42
- ②⑫ NECR-41
- ②⑬ NECR-46
- ②⑭ NW R-55
- ②⑮ NECR-48
- ②⑯ NW R-48
- ②⑰ NECR-49
- ②⑱ NECR-52
- ②⑳ NW R-40
- ②㉑ NECR-44
- ②㉒ NECR-54
- ②㉓ NECR-39
- ②㉔ NW R-54
- ②㉕ NW R-53
- ②㉖ NW R-49
- ②㉗ NECR-40
- ②㉘ NECR-55
- ②㉙ NW R-47
- ②㉚ NW R-52
- ②㉛ NECR-45
- ②㉜ NECR-50
- ②㉝ NW R-51

Coachen

analysis

for Cu,

Mn, Pb, Zn

Save the

pumps for

PHU

6418

262-68



# ROCKY MOUNTAIN GEOCHEMICAL CORPORATION

N. 6319 HELENA STREET  
SPOKANE, WASHINGTON 99207

Phone HU 9-3310  
Area Code: 509

## CERTIFICATE OF ANALYSES

Date September 16, 1968

Page  
1 of 4

Client Heineichs Geo-exploration Company  
804 West Grant Road  
Tucson, Arizona 85704

Atten: Mr. C. Ludwig

Report on: 20 pulps

Submitted by:

Date Received: 9/9/68

Analysis: Qualitative Emission Spectrograph

Remarks: Job # 68-5-23s

**HOME OFFICE**  
P.O. Box 2217  
Salt Lake City  
Utah 84110  
Ph.: 801-322-2396

**CANADIAN OFFICE**  
1175 W. 15th Street  
North Vancouver  
B.C. Canada  
Ph.: 987-1941

**RENO OFFICE**  
1491 E. 7th St.  
Reno, Nev.  
Ph.: 702-323-3610

**TUSCON OFFICE**  
2050 E. 14th St.  
Tuscon, Ariz.  
Ph.: 602-622-5702

**ALASKAN OFFICE**  
P.O. Box 303  
Auke Bay, Alaska

<u>Sample # Sink HLT #1</u>			<u>Sample # 2</u>		
Major	Minor	Trace	Major	Minor	Trace
Aluminum	Antimony	Cobalt	Aluminum	Antimony	Cobalt
Calcium	Barium	Gallium	Calcium	Barium	Gallium
Iron	Chromium	Molybdenum	Iron	Chromium	Molybdenum
Magnesium	Copper	Silver	Magnesium	Copper	Nickel
Manganese	Lead	Strontium	Manganese	Lead	Strontium
Silicon	Nickel	Tin	Silicon	Silver	Tin
Tantalum	Sodium	Boron	Tantalum	Sodium	Boron
Titanium	Tungstun	Hafnium	Titanium	Tungstun	Hafnium
	Vanadium	Indium		Vanadium	Indium
	Zinc	Gold		Zinc	Gold
	Zirconium	Yttrium		Zirconium	Yttrium

All values are reported in parts per million unless specified otherwise. A minus sign (—) is to be read "less than" and a plus sign (+) "greater than." Values in parenthesis are estimates. This analytical report is the confidential property of the above mentioned client and for the protection of this client and ourselves we reserve the right to forbid publication or reproduction of this report or any part thereof without written permission.

ND = Non Detected

1 ppm = 0.0001%

1 Troy oz./ton = 34.28 ppm

% Mo x 1.6683 = % MoS<sub>2</sub>

<u>Sample # 3</u>			<u>Sample # 4</u>		
Major	Minor	Trace	Major	Minor	Trace
Aluminum	Antimony	Arsenic	Aluminum	Antimony	Arsenic
Calcium	Chromium	Cobalt	Calcium	Chromium	Cobalt
Iron	Copper	Gallium	Iron	Copper	Gallium
Magnesium	Nickel	Lead	Magnesium	Lead	Molybdenum
Manganese	Phosphorus	Silver	Manganese	Nickel	Silver
Silicon	Sodium	Tin	Silicon	Phosphorus	Yttrium
Tantalum	Vanadium	Yttrium	Tantalum	Sodium	Cerium
Titanium	Zinc	Cerium	Titanium	Tin	Hafnium
	Zirconium	Hafnium		Vanadium	Boron
		Boron		Zinc	
				Zirconium	

<u>Sample # 5</u>			<u>Sample # 6</u>		
Major	Minor	Trace	Major	Minor	Trace
Aluminum	Antimony	Cobalt	Aluminum	Antimony	Cobalt
Calcium	Chromium	Gallium	Calcium	Chromium	Gallium
Iron	Copper	Lead	Iron	Copper	Lead
Magnesium	Nickel	Molybdenum	Magnesium	Nickel	Molybdenum
Manganese	Sodium	Silver	Manganese	Sodium	Silver
Silicon	Vanadium	Strontium	Silicon	Vanadium	Strontium
Tantalum	Zinc	Tin	Tantalum	Zinc	Tin
Titanium		Hafnium	Titanium		Tungstun
		Indium			Hafnium
		Cerium			Indium
					Cerium

<u>Sample # 7</u>			<u>Sample # 8</u>		
Major	Minor	Trace	Major	Minor	Trace
Aluminum	Antimony	Cobalt	Aluminum	Antimony	Cobalt
Calcium	Chromium	Gallium	Calcium	Chromium	Gallium
Iron	Copper	Lead	Iron	Copper	Lead
Magnesium	Sodium	Nickel	Magnesium	Nickel	Strontium
Manganese	Vanadium	Strontium	Manganese	Potassium	Tin
Silicon	Zinc	Tin	Silicon	Sodium	Tungstun
Tantalum	Zirconium	Cerium	Tantalum	Vanadium	Cerium
Titanium		Indium	Titanium	Zinc	Indium
		Yttrium		Zirconium	Yttrium
		Hafnium			Hafnium

<u>Sample # 9</u>			<u>Sample # 10</u>		
Major	Minor	Trace	Major	Minor	Trace
Aluminum	Antimony	Cobalt	Aluminum	Antimony	Cobalt
Calcium	Chromium	Gallium	Calcium	Chromium	Gallium
Iron	Copper	Molybdenum	Iron	Copper	Silver
Magnesium	Lead	Silver	Magnesium	Lead	Strontium
Manganese	Nickel	Strontium	Manganese	Nickel	Tin
Silicon	Sodium	Tin	Silicon	Sodium	Hafnium
Tantalum	Vanadium	Hafnium	Tantalum	Vanadium	Cerium
Titanium	Zinc	Indium	Titanium	Zinc	Indium
	Zirconium	Cerium		Zirconium	Yttrium
		Yttrium			

<u>Sample # 11</u>			<u>Sample # 12</u>		
Major	Minor	Trace	Major	Minor	Trace
Aluminum	Antimony	Bismuth	Aluminum	Antimony	Bismuth
Calcium	Chromium	Cobalt	Calcium	Chromium	Cobalt
Iron	Copper	Gallium	Iron	Copper	Gallium
Magnesium	Nickel	Lead	Magnesium	Lead	Molybdenum
Manganese	Vanadium	Molybdenum	Manganese	Vanadium	Nickel
Silicon	Zirconium	Silver	Silicon	Zinc	Silver
Tantalum		Strontium	Tantalum	Zirconium	Strontium
Titanium		Tin	Titanium		Tin
		Tungstun	Tungstun		Indium
		Zinc			Yttrium
		Indium			Cerium
		Yttrium			Hafnium
		Cerium			
		Hafnium			

<u>Sample # 13</u>			<u>Sample # 14</u>		
Major	Minor	Trace	Major	Minor	Trace
Aluminum	Chromium	Cobalt	Aluminum	Chromium	Cobalt
Calcium	Copper	Gallium	Calcium	Copper	Gallium
Iron	Lead	Molybdenum	Iron	Lead	Molybdenum
Silicon	Magnesium	Nickel	Magnesium	Manganese	Silver
Tantalum	Manganese	Silver	Silicon	Nickel	Strontium
Titanium	Sodium	Tin	Tantalum	Sodium	Tin
Zinc	Strontium	Hafnium	Zinc	Vanadium	Hafnium
	Vanadium	Indium	Zirconium		Indium
	Zirconium	Cerium	TITANIUM		Cerium
		Yttrium			Yttrium

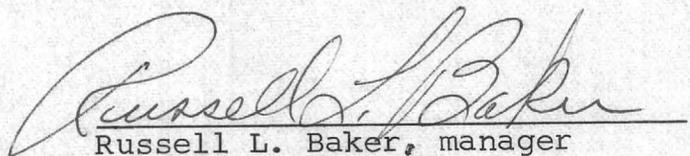
<u>Sample # 15</u>			<u>Sample # 16</u>		
Major	Minor	Trace	Major	Minor	Trace
Aluminum	Chromium	Bismuth	Aluminum	Chromium	Cobalt
Calcium	Copper	Cobalt	Calcium	Copper	Gallium
Iron	Lead	Gallium	Iron	Nickel	Lead
Manganese	Magnesium	Molybdenum	Magnesium	Sodium	Molybdenum
Silicon	Nickel	Silver	Manganese	Vanadium	Silver
Tantalum	Sodium	Tin	Silicon	Zinc	Tin
Titanium	Vanadium	Indium	Tantalum	Zirconium	Indium
	Zinc	Yttrium	Titanium		Yttrium
	Zirconium	Hafnium			Hafnium

<u>Sample # 17</u>			<u>Sample # 18</u>		
Major	Minor	Trace	Major	Minor	Trace
Aluminum	Chromium	Bismuth	Aluminum	Chromium	Bismuth
Calcium	Copper	Cobalt	Calcium	Copper	Cobalt
Iron	Manganese	Gallium	Iron	Lead	Gallium
Magnesium	Lead	Molybdenum	Magnesium	Manganese	Molybdenum
Silicon	Nickel	Silver	Silicon	Nickel	Silver
Tantalum	Sodium	Strontium	Tantalum	Sodium	Strontium
Titanium	Vanadium	Tin	Titanium	Vanadium	Tin
Zinc		Indium	Zinc		Indium
		Cerium			Cerium
		Yttrium			Yttrium

<u>Sample # 19</u>			<u>Sample # 20</u>		
Major	Minor	Trace	Major	Minor	Trace
Aluminum	Chromium	Cobalt	Aluminum	Chromium	Cobalt
Calcium	Copper	Gallium	Calcium	Copper	Gallium
Iron	Nickel	Molybdenum	Iron	Sodium	Lead
Magnesium	Lead	Silver	Magnesium	Vanadium	Molybdenum
Manganese	Sodium	Strontium	Manganese	Zinc	Nickel
Silicon	Vanadium	Tin	Silicon	Zirconium	Silver
Tantalum	Zinc	Tungstun	Tantalum		Strontium
Titanium	Zirconium	Indium	Titanium		Tin
		Yttrium			Indium
		Hafnium			Yttrium
					Hafnium

Major = +1.0%  
 Minor = +.01%-1.0%  
 Trace = less than .01%

Respectfully submitted,  
 Rocky Mountain Geochemical Corp.

  
 Russell L. Baker, manager

cc: Salt Lake office  
 Tucson office  
 file

RLB:pb

# ROCKY MOUNTAIN GEOCHEMICAL CORPORATION

N. 6319 HELENA STREET  
SPOKANE, WASHINGTON 99207

Phone HU 9-3310  
Area Code: 509

## CERTIFICATE OF ANALYSES

Page

1 of 4

Date September 16, 1968

Client Heineichs Geo-exploration Company  
804 West Grant Road  
Tucson, Arizona 85704

Atten: Mr. C. Ludwig

**HOME OFFICE**  
P.O. Box 2217  
Salt Lake City  
Utah 84110  
Ph.: 801-322-2396

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1175 W. 15th Street  
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Ph.: 702-323-3610

**TUSCON OFFICE**  
2050 E. 14th St.  
Tuscon, Ariz.  
Ph.: 602-622-5702

**ALASKAN OFFICE**  
P.O. Box 303  
Auke Bay, Alaska

Report on: 20 pulps

Submitted by:

Date Received: 9/9/68

Analysis: Qualitative Emission Spectrograph

Remarks: Job # 68-5-23s

<u>Sample # Sink HLT #1</u>			<u>Sample # 2</u>		
Major	Minor	Trace	Major	Minor	Trace
Aluminum	Antimony	Cobalt	Aluminum	Antimony	Cobalt
Calcium	Barium	Gallium	Calcium	Barium	Gallium
Iron	Chromium	Molybdenum	Iron	Chromium	Molybdenum
Magnesium	Copper	Silver	Magnesium	Copper	Nickel
Manganese	Lead	Strontium	Manganese	Lead	Strontium
Silicon	Nickel	Tin	Silicon	Silver	Tin
Tantalum	Sodium	Boron	Tantalum	Sodium	Boron
Titanium	Tungstun	Hafnium	Titanium	Tungstun	Hafnium
	Vanadium	Indium		Vanadium	Indium
	Zinc	Gold		Zinc	Gold
	Zirconium	Yttrium		Zirconium	Yttrium

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1 ppm = 0.0001%

1 Troy oz./ton = 34.28 ppm

% Mo x 1.6683 = % MoS<sub>3</sub>

<u>Sample # 3</u>			<u>Sample # 4</u>		
Major	Minor	Trace	Major	Minor	Trace
Aluminum	Antimony	Arsenic	Aluminum	Antimony	Arsenic
Calcium	Chromium	Cobalt	Calcium	Chromium	Cobalt
Iron	Copper	Gallium	Iron	Copper	Gallium
Magnesium	Nickel	Lead	Magnesium	Lead	Molybdenum
Manganese	Phosphorus	Silver	Manganese	Nickel	Silver
Silicon	Sodium	Tin	Silicon	Phosphorus	Yttrium
Tantalum	Vanadium	Yttrium	Tantalum	Sodium	Cerium
Titanium	Zinc	Cerium	Titanium	Tin	Hafnium
	Zirconium	Hafnium		Vanadium	Boron
		Boron		Zinc	
				Zirconium	

<u>Sample # 5</u>			<u>Sample # 6</u>		
Major	Minor	Trace	Major	Minor	Trace
Aluminum	Antimony	Cobalt	Aluminum	Antimony	Cobalt
Calcium	Chromium	Gallium	Calcium	Chromium	Gallium
Iron	Copper	Lead	Iron	Copper	Lead
Magnesium	Nickel	Molybdenum	Magnesium	Nickel	Molybdenum
Manganese	Sodium	Silver	Manganese	Sodium	Silver
Silicon	Vanadium	Strontium	Silicon	Vanadium	Strontium
Tantalum	Zinc	Tin	Tantalum	Zinc	Tin
Titanium		Hafnium	Titanium		Tungstun
		Indium			Hafnium
		Cerium			Indium
					Cerium

<u>Sample # 7</u>			<u>Sample # 8</u>		
Major	Minor	Trace	Major	Minor	Trace
Aluminum	Antimony	Cobalt	Aluminum	Antimony	Cobalt
Calcium	Chromium	Gallium	Calcium	Chromium	Gallium
Iron	Copper	Lead	Iron	Copper	Lead
Magnesium	Sodium	Nickel	Magnesium	Nickel	Strontium
Manganese	Vanadium	Strontium	Manganese	Potassium	Tin
Silicon	Zinc	Tin	Silicon	Sodium	Tungstun
Tantalum	Zirconium	Cerium	Tantalum	Vanadium	Cerium
Titanium		Indium	Titanium	Zinc	Indium
		Yttrium		Zirconium	Yttrium
		Hafnium			Hafnium

<u>Sample # 9</u>			<u>Sample # 10</u>		
Major	Minor	Trace	Major	Minor	Trace
Aluminum	Antimony	Cobalt	Aluminum	Antimony	Cobalt
Calcium	Chromium	Gallium	Calcium	Chromium	Gallium
Iron	Copper	Molybdenum	Iron	Copper	Silver
Magnesium	Lead	Silver	Magnesium	Lead	Strontium
Manganese	Nickel	Strontium	Manganese	Nickel	Tin
Silicon	Sodium	Tin	Silicon	Sodium	Hafnium
Tantalum	Vanadium	Hafnium	Tantalum	Vanadium	Cerium
Titanium	Zinc	Indium	Titanium	Zinc	Indium
	Zirconium	Cerium		Zirconium	Yttrium
		Yttrium			

<u>Sample # 11</u>			<u>Sample # 12</u>		
Major	Minor	Trace	Major	Minor	Trace
Aluminum	Antimony	Bismuth	Aluminum	Antimony	Bismuth
Calcium	Chromium	Cobalt	Calcium	Chromium	Cobalt
Iron	Copper	Gallium	Iron	Copper	Gallium
Magnesium	Nickel	Lead	Magnesium	Lead	Molybdenum
Manganese	Vanadium	Molybdenum	Manganese	Vanadium	Nickel
Silicon	Zirconium	Silver	Silicon	Zinc	Silver
Tantalum		Strontium	Tantalum	Zirconium	Strontium
Titanium		Tin	Titanium		Tin
		Tungstun	Tungstun		Indium
		Zinc			Yttrium
		Indium			Cerium
		Yttrium			Hafnium
		Cerium			
		Hafnium			

<u>Sample # 13</u>			<u>Sample # 14</u>		
Major	Minor	Trace	Major	Minor	Trace
Aluminum	Chromium	Cobalt	Aluminum	Chromium	Cobalt
Calcium	Copper	Gallium	Calcium	Copper	Gallium
Iron	Lead	Molybdenum	Iron	Lead	Molybdenum
Silicon	Magnesium	Nickel	Magnesium	Manganese	Silver
Tantalum	Manganese	Silver	Silicon	Nickel	Strontium
Titanium	Sodium	Tin	Tantalum	Sodium	Tin
Zinc	Strontium	Hafnium	Zinc	Vanadium	Hafnium
	Vanadium	Indium	Zirconium		Indium
	Zirconium	Cerium	TITANIUM		Cerium
		Yttrium			Yttrium

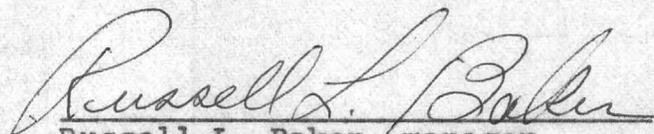
<u>Sample # 15</u>			<u>Sample # 16</u>		
Major	Minor	Trace	Major	Minor	Trace
Aluminum	Chromium	Bismuth	Aluminum	Chromium	Cobalt
Calcium	Copper	Cobalt	Calcium	Copper	Gallium
Iron	Lead	Gallium	Iron	Nickel	Lead
Manganese	Magnesium	Molybdenum	Magnesium	Sodium	Molybdenum
Silicon	Nickel	Silver	Manganese	Vanadium	Silver
Tantalum	Sodium	Tin	Silicon	Zinc	Tin
Titanium	Vanadium	Indium	Tantalum	Zirconium	Indium
	Zinc	Yttrium	Titanium		Yttrium
	Zirconium	Hafnium			Hafnium

<u>Sample # 17</u>			<u>Sample # 18</u>		
Major	Minor	Trace	Major	Minor	Trace
Aluminum	Chromium	Bismuth	Aluminum	Chromium	Bismuth
Calcium	Copper	Cobalt	Calcium	Copper	Cobalt
Iron	Manganese	Gallium	Iron	Lead	Gallium
Magnesium	Lead	Molybdenum	Magnesium	Manganese	Molybdenum
Silicon	Nickel	Silver	Silicon	Nickel	Silver
Tantalum	Sodium	Strontium	Tantalum	Sodium	Strontium
Titanium	Vanadium	Tin	Titanium	Vanadium	Tin
Zinc		Indium	Zinc		Indium
		Cerium			Cerium
		Yttrium			Yttrium

<u>Sample # 19</u>			<u>Sample # 20</u>		
Major	Minor	Trace	Major	Minor	Trace
Aluminum	Chromium	Cobalt	Aluminum	Chromium	Cobalt
Calcium	Copper	Gallium	Calcium	Copper	Gallium
Iron	Nickel	Molybdenum	Iron	Sodium	Lead
Magnesium	Lead	Silver	Magnesium	Vanadium	Molybdenum
Manganese	Sodium	Strontium	Manganese	Zinc	Nickel
Silicon	Vanadium	Tin	Silicon	Zirconium	Silver
Tantalum	Zinc	Tungstun	Tantalum		Strontium
Titanium	Zirconium	Indium	Titanium		Tin
		Yttrium			Indium
		Hafnium			Yttrium
					Hafnium

Major = +1.0%  
 Minor = +.01%-1.0%  
 Trace = less than .01%

Respectfully submitted,  
 Rocky Mountain Geochemical Corp.

  
 Russell L. Baker, manager

cc: Salt Lake office  
 Tucson office  
 file

RLB:pb

# Rocky Mountain Geochemical Corporation

2050 EAST 14TH STREET  
TUCSON, ARIZONA 85719

Phone 622-5702  
Area Code: 602

## CERTIFICATE OF ANALYSES

Date September 12, 1968

Page 1 of 2

Client Heinrich's Geo-exploration Company  
804 W. Grant  
Tucson, Arizona 85704  
  
ATTENTION: C. Ludwig

Report on: 20 samples

Submitted by: C. Ludwig

Date Received: September 5, 1968

Analysis: Copper, Molybdenum, Lead and Zinc

Remarks: 20 samples sent to Spokane for Spectrographic analysis.  
Copper, Lead and Zinc analyses determined by Atomic Absorption.  
Molybdenum analysis determined Colorimetrically.

Job No. 68-5-5T

cc: Enclosed ✓  
RMGC - Salt Lake  
file

AB:db

*Bad Rep*

All values are reported in parts per million unless specified otherwise. A minus sign (-) is to be read "less than" and a plus sign (+) "greater than." Values in parenthesis are estimates. This analytical report is the confidential property of the above mentioned client and for the protection of this client and ourselves we reserve the right to forbid publication or reproduction of this report or any part thereof without written permission.

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1 Troy oz./ton = 34.28 ppm

% Mo. x 1.6683 = %MoS<sub>2</sub>

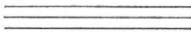
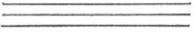
	<u>Sample No.</u>	<u>ppm Copper</u>	<u>ppm Molybdenum</u>	<u>ppm Lead</u>	<u>ppm Zinc</u>
<i>RHM</i>	HLT-1 Float	70	-1	40	60
"	HLT-2 "	45	49	415	100
"	" 3 "	50	-1	25	1300
"	" 4 "	35	-1	45	140
"	" 5 "	25	-1	25	130
"	" 6 "	30	1	35	180
"	" 7 "	65	-1	25	230
"	" 8 "	50	-1	30	90
"	" 9 "	45	82	680	80
"	HLT-10 Float	50	-1	50	80
"	" 11 "	40	-1	35	60
"	" 12 "	35	-1	40	50
"	" 13 "	40	-1	25	50
"	" 14 "	50	-1	20	110
"	" 15 "	50	-1	45	60
"	" 16 "	50	-1	55	200
"	" 17 "	45	-1	35	70
"	" 18 "	75	-1	70	160
"	" 19 "	55	-1	50	90
"	HLT-20 Float	50	-1	20	50

ROCKY MOUNTAIN GEOCHEMICAL CORPORATION  
Tucson, Arizona      September 11, 1968

By

*Anita Bradshaw*

Anita Bradshaw

**METCON**   
 LABORATORY

Box 5912  
Tucson, Ariz.  
85703  
Phone 623-5045  
Area code 602

September 3, 1968

Heinrichs Geoesploration Company  
808 W. Grant Road  
P. O. Box 5671  
Tucson, Arizona

Attention: Mr. Walter Heinrich

Dear Walt,

Your project is now complete and a billing is enclosed.

This has been a most interesting project and one that although starting rather slow has increased in tempo until we got this out finally without too much delaying. The procedure in getting these samples is as follows:

- (1) Each sample was crushed and split to give us one half and Heinrichs Geoesploration Company one half.
- (2) A 1000 gram aliquot was taken down to minus 80 and plus 100. After this was tried on several sink floats it was found to be completely unmanageable so we then took the sample down to minus 65 and plus 100. All of the minus 100 being screened out and placed in an envelope to attach to the other two samples and called slimes.
- (3) In most cases a 1000 grams was used as the starting quantity but in the cases noted 500 grams and in one case 800 grams was adequate to get all of the sink material desired. In the case of the small weights of sink material that were obtained from 1000 grams it was felt probably this sample would be relatively insignificant and further weights probably would not be required.

In the actual heavy media separation the material in the Acetylene tetrabromide was stirred a sufficient number of times to make sure the sink material was completely removed or nearly so. In my estimation the separation is probably 80 to 90 percent accurate and complete. After the samples were taken from the heavy media they were filtered and after reaching a relative degree of dryness were then washed with methynol twice. These samples were then

placed in our drying oven at temperatures below 150F degrees and were dried for whatever length of time was required to completely expel the fumes. In a number of instances the sink material turned a pinkish color which we believe was due to the alcohol rather than to any oxidizing influence of the heat itself. We could see no other way of eliminating the acetylene of the tetrabromide other than washing, and we can see no practicable way of drying these samples except in the oven. It is doubted if this possible change in color has affected the mineralization in any way although this is mentioned so it can be considered.

It has been a pleasure to work with you on this project and we would like to suggest that if you do contemplate having more samples run at a later date, we be given sufficient lead time so that we can construct a more practicable set-up for doing this work.

Very cordially,

  
\_\_\_\_\_  
Phil Allen, Director  
METCON Laboratory

PA/vi

HLT No.	<u>TOTAL WEIGHT</u> <u>OF SAMPLE PLUS</u> <u>SLIMES</u>		<u>WEIGHT OF</u> <u>SINK</u>	
	1	1000	Grams	8.8
2	1000	"	9.7	"
3	500	"	28.7	"
4	1000	"	58.4	"
5	500	"	66.7	"
6	500	"	28.5	"
7	500	"	43.2	"
8	1000	"	25.6	"
9	500	"	30.3	"
10	1000	"	22.2	"
11	800	"	26.6	"
12	1000	"	8.5	"
13	1000	"	10.4	"
14	1000	"	32.2	"
15	1000	"	4.7	"
16	1000	"	22.5	"
17	1000	"	23.6	"
18	1000	"	43.8	"
19	1000	"	15.2	"
20	1000	"	17.4	"

# Rocky Mountain Geochemical Corporation

2050 EAST 14TH STREET  
TUCSON, ARIZONA 85719

Phone 622-5702  
Area Code: 602

## CERTIFICATE OF ANALYSES

Date August 13, 1968

Page 1

Client Heinrichs Geoexploration Company  
808 West Grant Rd.  
Tucson, Arizona

Report on: 91 samples

Submitted by: C. Ludwig

Date Received: August 12, 1968

Analysis: Cu, Mo, Pb, Zn

*Cu Blue Mo Red Green Pb*

Remarks: Mo determined Colorimetrically. All others determined  
by Atomic Absorption.

Job No. 68-4-11T

cc: Enc.

File - Salt Lake

File - Tucson

REG:nlb

All values are reported in parts per million unless specified otherwise. A minus sign (-) is to be read "less than" and a plus sign (+) "greater than." Values in parenthesis are estimates. This analytical report is the confidential property of the above mentioned client and for the protection of this client and ourselves we reserve the right to forbid publication or reproduction of this report or any part thereof without written permission.

ND = None Detected

1 ppm = 0.0001%

1 Troy oz./ton = 34.28 ppm

% Mo. x 1.6683 = %MoS<sub>2</sub>

<u>Sample No.</u>	<u>ppm Cu</u>	<u>ppm Mo</u>	<u>ppm Pb</u>	<u>ppm Zn</u>
A-1	40	-1	50	660
2	70	-1	50	320
3	35	-1	40	70
4	30	-1	20	160
5	50	3	65	220
6	20	-1	40	120
7	30	-1	80	190
8	60	1	200	210
9	160	1	110	160
10	110	3	90	160
11	90	1	50	80
12	50	-1	60	90
13	190	-1	70	110
14	70	-1	70	330
15	70	3	85	230
16	65	-1	60	80
17	40	-1	45	70
18	45	-1	40	75
19	130	1	70	70
20	35	-1	40	120
B-1	40	-1	40	90
2	30	-1	40	70
3	50	-1	50	80
4	60	-1	60	110
5	65	3	70	105
6	60	3	75	130
7	40	3	60	120
8	40	1	70	150
9	40	1	50	130
11	50	-1	55	150
12	30	1	85	310
13	80	-1	210	220

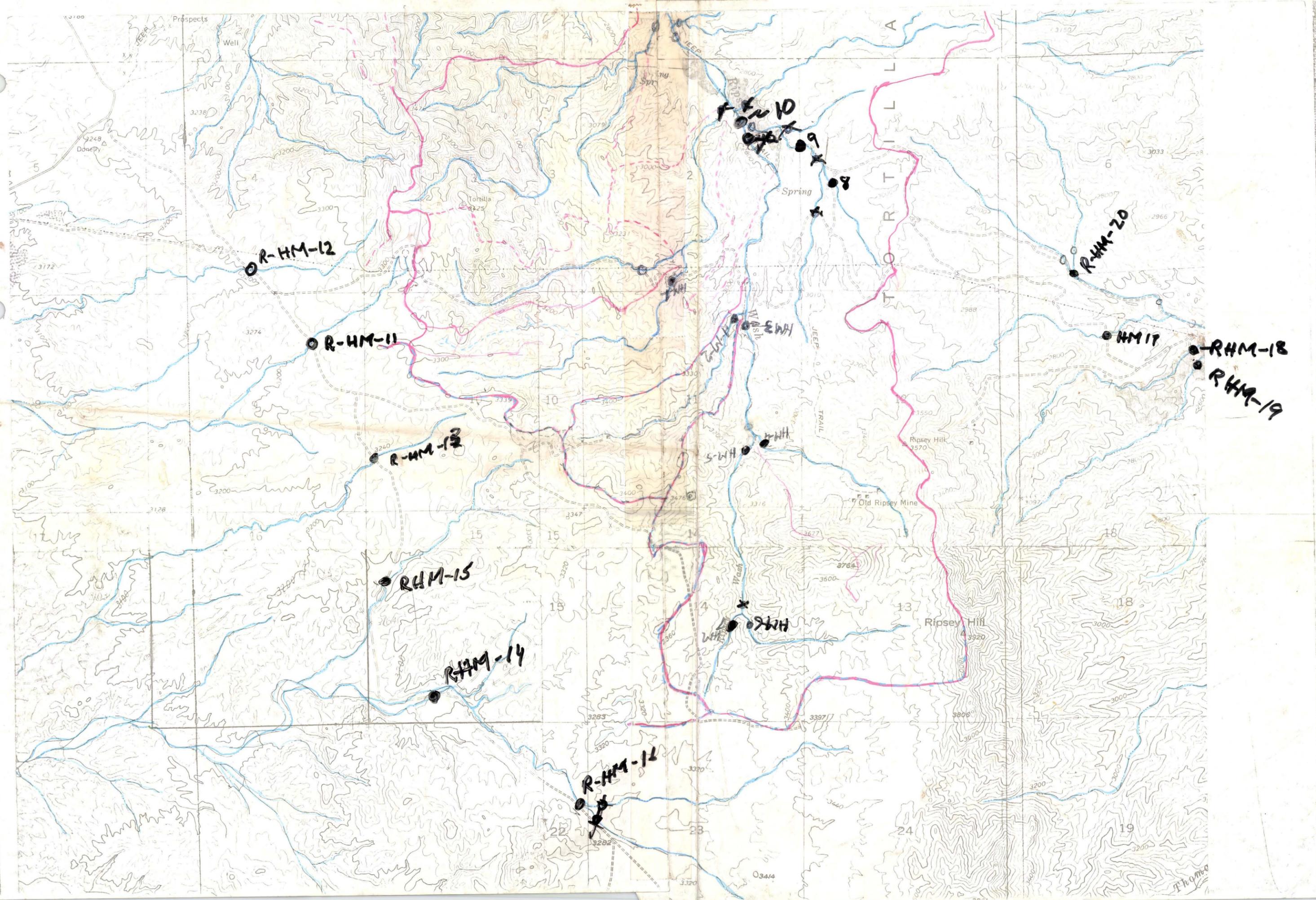
<u>Sample No.</u>	<u>ppm Cu</u>	<u>ppm Mo</u>	<u>ppm Pb</u>	<u>ppm Zn</u>
B-14	35	-1	75	120
15	30	1	60	180
16	20	-1	40	120
17	65	-1	60	300
C-1	40	-1	50	100
2	65	3	120	210
3	70	-1	60	110
4	90	1	70	120
5	25	-1	40	100
6	40	-1	30	60
7	40	1	120	340
8	20	3	90	140
9	40	-1	70	100
10	80	-1	80	150
11	60	1	60	90
12	90	-1	50	130
D-1	110	-1	60	110
2	70	-1	70	130
3	380	1	100	250
4	50	-1	70	140
5	150	3	70	130
6	110	1	80	140
7	180	1	70	150
E-1	340	14	80	900
2	680	6	60	90
3	110	3	90	200
4	60	3	50	190
F-1	670	7	65	180
#2-0.0 NE	150	3	420	330
500	175	3	100	320
#4-2.55 SE	100	3	100	160
3.00	50	4	150	290
500	60	6	310	200

<u>Sample No.</u>	<u>ppm Cu</u>	<u>ppm Mo</u>	<u>ppm Pb</u>	<u>ppm Zn</u>
#4-1000	60	4	80	190
1500 + 100	-5	-1	35	30
1500 + 200	120	6	30	210
2000	70	6	80	110
#5-1.0 SE	70	3	110	160
1.5	200	6	440	450
2.0	80	1	60	190
2.55	110	3	70	210
3.0	60	4	70	240
Line-4 NW 0000	100	6	80	150
0035	90	1	100	170
0040	80	1	70	160
1000	190	-1	120	200
1500	150	4	80	130
2000	120	1	90	120
2500	360	6	240	510
3000	60	-1	50	80
Line-6 NE # 5	50	1	90	100
10	90	3	85	120
15	90	6	60	130
Line-6 SW # 10	40	6	50	110
20	80	3	50	90
25	110	3	70	90
DDH # 1	60	3	40	50
R - 1	100	3	230	370
RIP - 5¼	100	3	120	150

By



R. E. Graves, Manager  
 Rocky Mt. Geochemical Corp.  
 Tucson, Arizona



R-HM-12

R-HM-11

R-HM-13

RHM-15

RHM-14

R-HM-12

F 2 10

W 3 11

5-14

W 6 17

TORTILLA

RHM-20

HM 17

RHM-18

RHM-19

Ripsey Hill 3570

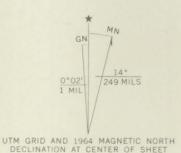
Old Ripsey Mine

Ripsey Hill 3920

Thomas



Mapped, edited, and published by the Geological Survey  
in cooperation with the Bureau of Reclamation  
Control by USGS and USC&GS  
Topography by photogrammetric methods from aerial  
photographs taken 1962. Field checked 1964  
Polyconic projection. 1927 North American datum  
10,000-foot grid based on Arizona coordinate system, central zone  
1000-meter Universal Transverse Mercator grid ticks,  
zone 12, shown in blue  
Fine red dashed lines indicate selected fence lines



ROAD CLASSIFICATION  
Light-duty ———— Unimproved dirt - - - - -

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D. C.  
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

GRAYBACK, ARIZ.  
N3300-W11100/7.5  
1964  
AMS 3750 II SE—SERIES V898

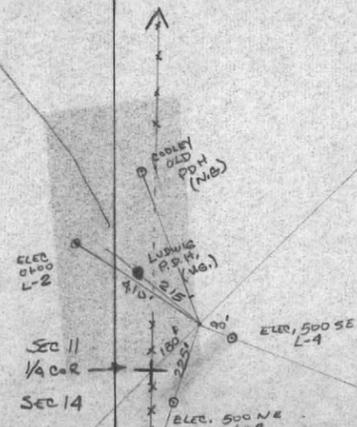
Approx.  
 Loc. DH-1  
 Precise location should be  
 Surveyed again after drilling completed

11 + 12 <sup>1/4</sup> COR

6-25-68 ?

Badgett - Ripsey  
 Proj.

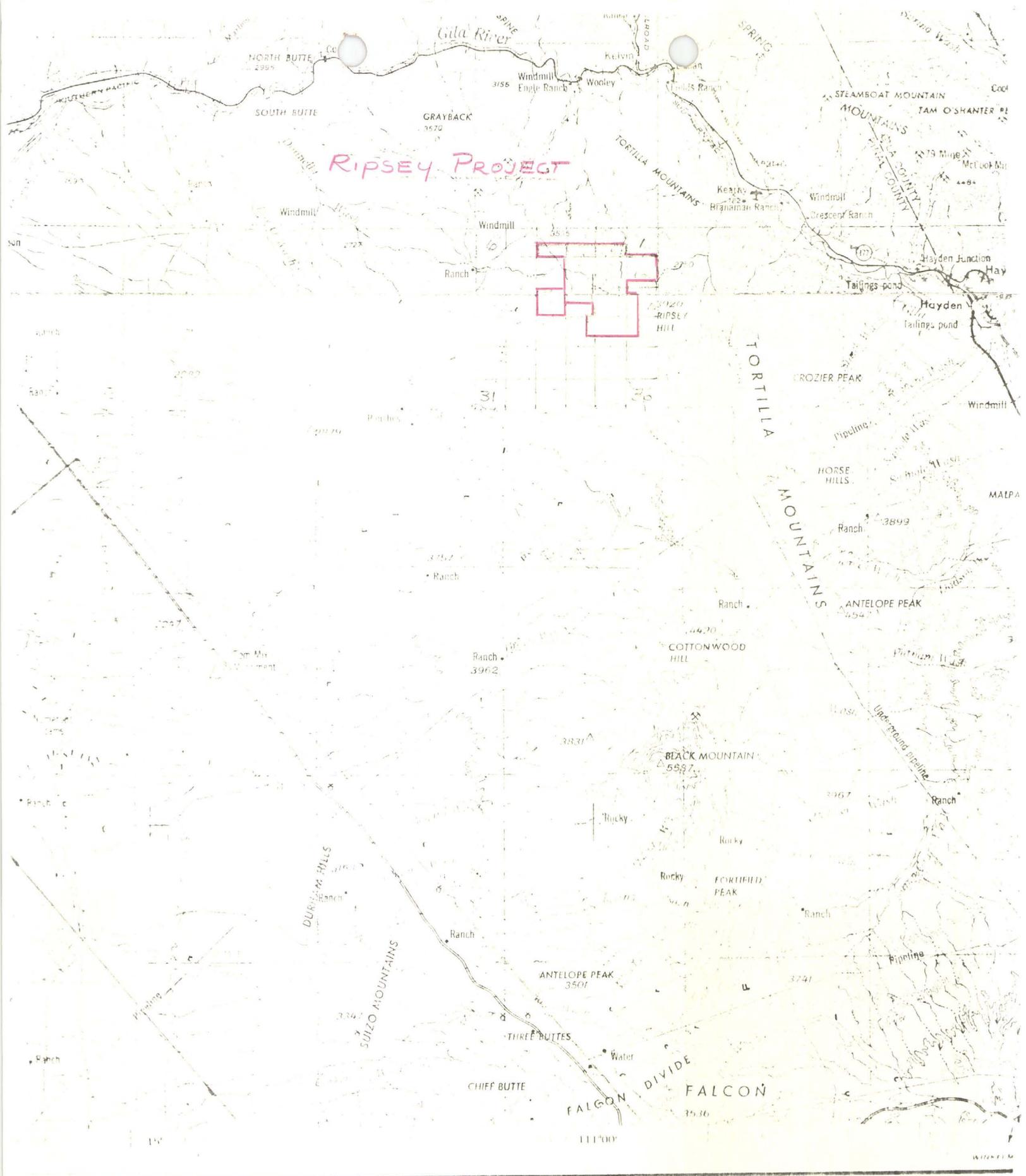
TRANSIT STADIA  
 CHECK  
 OF  
 I. P. LOCATION  
 ↓  
 NEW PROPOSED  
 DRILL HOLE SITE



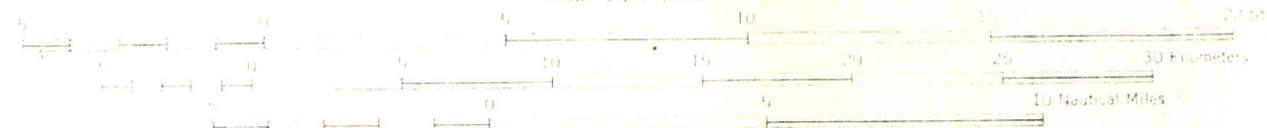
+

+

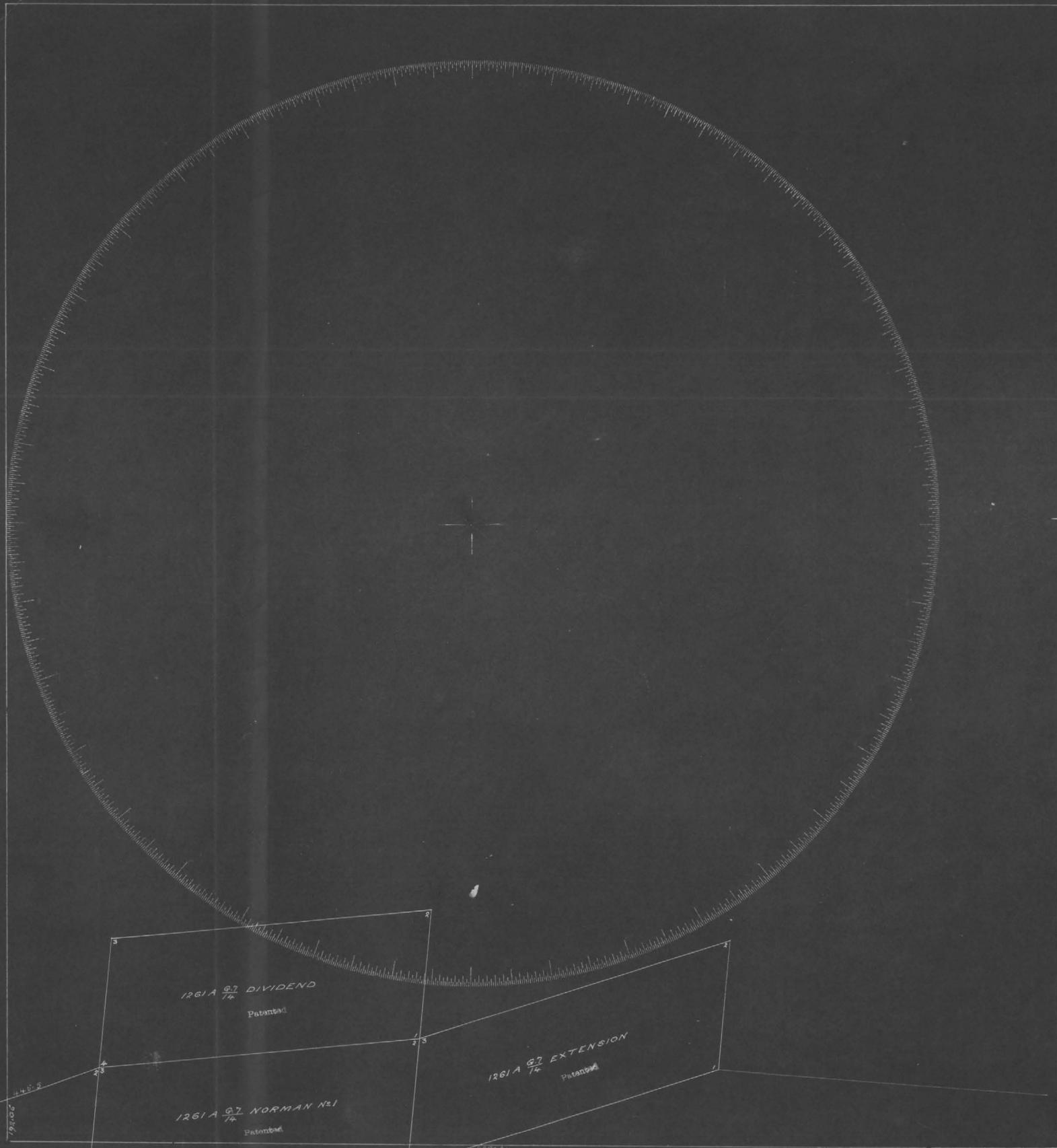
SJUNE



Scale 1:250,000



CONTOUR INTERVAL 200 FEET  
WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS



RIPSEY DIST.  
SEC. 12, T. 5 S., R. 13 E.



**DATES OF LOCATIONS.**

Norman N <sup>o</sup> 1 Lode, Located	Jan. 2, 1892.
Nancy	Jan. 2, 1892.
Extension	Sept. 8, 1894.
Dividend	Sept. 8, 1894.
Nancy Millsite	Nov. 7, 1894.
Extension	Nov. 7, 1894.

All amended on July 1, 1897.

**AREAS OF LOBE CLAIMS.**

Norman N <sup>o</sup> 1.	2008 Acres
Extension.	2031 "
Nancy.	1946 "
Dividend.	2024 "
<b>Total</b>	<b>8009 "</b>

**AREAS OF MILLSITES**

Nancy	466 "
Extension	500 "
<b>Total</b>	<b>966 "</b>

80.00 "  
9.75 "  
**Grand Total 89.75 Acres.**

Patent Date 9-18-1898  
Patent No. 27747  
Serial No.

Mineral Survey N<sup>o</sup> 1261 A. & B. Lot No. GILA Land District

**PLAT**  
OF THE CLAIM OF  
**NORMAN MINING AND MILLING COMPANY.**  
KNOWN AS THE  
**NORMAN N<sup>o</sup> 1, NANCY, EXTENSION AND DIVIDEND LODES AND THE NANCY AND EXTENSION MILLSITES.**

IN RIPSEY MINING DISTRICT,  
PINAL COUNTY, ARIZONA.  
Containing an Area of 89.75 Acres  
Scale of 600 feet to the inch  
Magnet Variation 14° 12' E.  
SUBMITTED AUG. 27, 1897 BY  
ALBERT T. COLTON  
U.S. Deputy Mineral Surveyor.

The Original Field Notes of the Survey of the Mining Claim of  
**NORMAN MINING AND MILLING COMPANY**  
known as the  
**NORMAN N<sup>o</sup> 1, NANCY, EXTENSION AND DIVIDEND LODES AND THE NANCY AND EXTENSION MILLSITES.**

from which this plat has been made under my direction, have been examined and approved, and are on file in this office, and I hereby certify that they furnish such an accurate description of said Mining Claim as well, if incorporated into a patent, serve fully to identify the premises, and that such reference is made therein to natural objects or permanent monuments as will perpetuate and fix the locus thereof.

I further certify that five hundred dollars worth of labor has been expended or improvements made upon said Mining Claim by claimant or its grantors, and that said improvements consist of 9 Shafts, 1 Tunnel, 761 ft of Drifts, 75 ft of Cross cuts, 1 Cut, Mill (complete), Assay Office, Boarding House, 2 Stables, Engine and Hoisting Works, and an Adobe. that the location of said improvements is shown upon this plat, and that no portion of said labor or improvements has been included in the estimate of expenditures upon any other claim.

And I further certify that this is a correct plat of said Mining Claim made in conformity with said original field notes of the survey thereof, and the same is hereby approved.

U.S. Surveyor General's Office, George Christ  
**TUCSON, ARIZ.** U.S. Surveyor General for  
**September 30, 1897.** ARIZONA.

Badgett Ripsey 5/21/68

STATE LAND, County, Office Records

c cancelled  
X P.P.  
O open

Township \_\_\_\_\_ Range \_\_\_\_\_ Notes

Township \_\_\_\_\_ Range \_\_\_\_\_

Township \_\_\_\_\_ Range \_\_\_\_\_

Township \_\_\_\_\_ Range \_\_\_\_\_

T5 13E Four-on Township 513 MEMO

51368 Mineral rights & Surface

6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
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6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

ERNEST R. DUNCAN TO → Purchase from State Hannes W. Reed

Purchase from State T5 S36 R14 E

Axel Johnson Leslie M. Wood

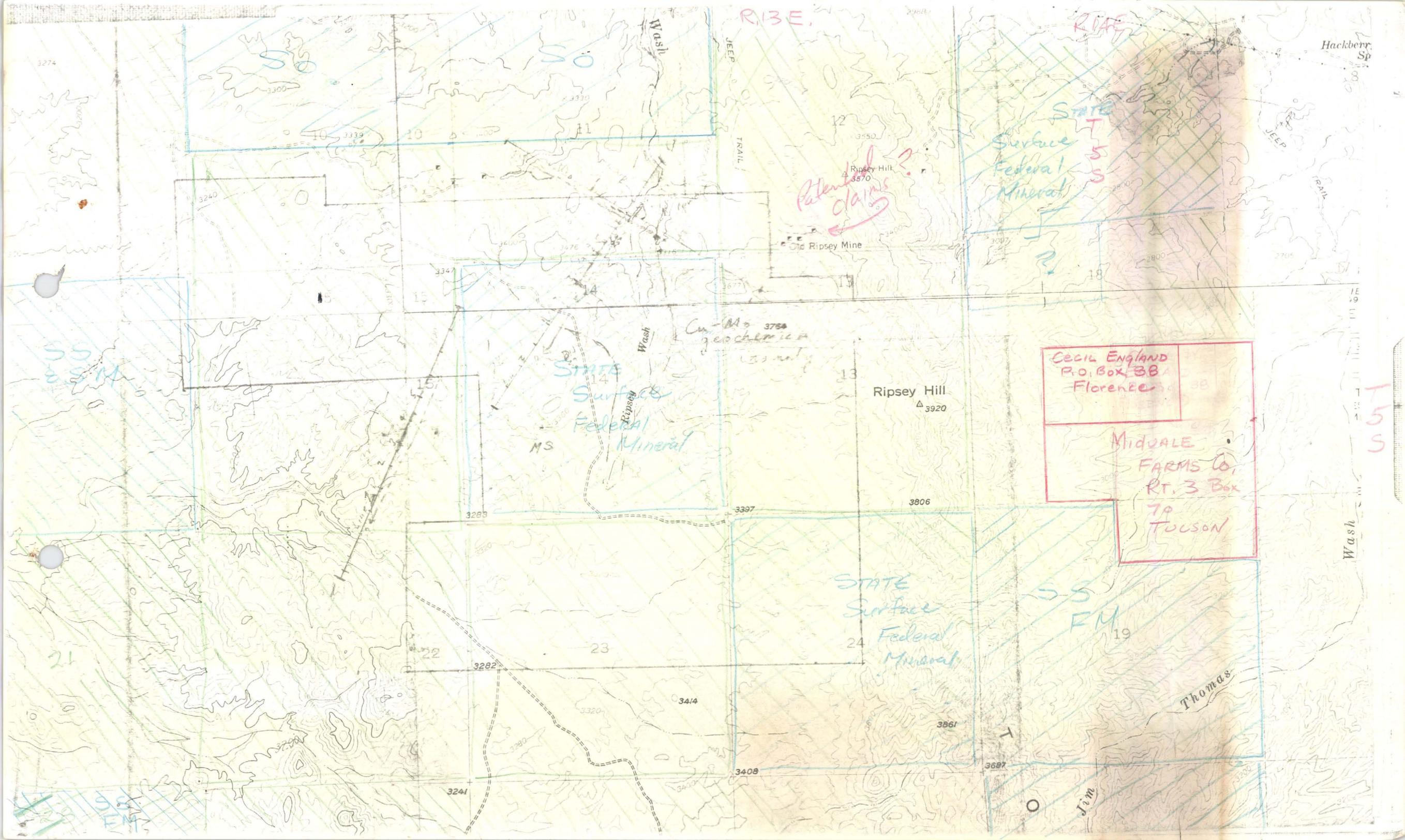
Purchase from State Midvale Farms

LT Lease transfer  
G Grazing lease  
SL STOCK  
R/W Right way

Purchase from State

Freeport ~~Sulphur~~ Expl.

Sec. 4 T55 R13E  
LT 3 & 4, S2 NW4  
4-18-68



R.I.B.E.

R.I.A.E.

STATE  
Surface  
Federal  
Mineral

Patent claims  
?

Cecilia England  
P.O. Box 38  
Florence

MIDDLE  
FIELDS CO.  
RT. 3 Box  
70  
TULSON

STATE  
Surface  
Federal  
Mineral

STATE  
Surface  
Federal  
Mineral

SS  
FM

Ripsey Hill  
Δ 3920

Cu-Mo  
geochemical

Thomas

Hackberry  
Sp

Wash

T  
S  
S

3274

3240

3344

3283

3282

3241

3408

3806

3861

3687

3550

3570

Old Ripsey Mine

Wash

Wash

JEEP

TRAIL

SS  
FM

21

22

23

24

13

15

15

15

MS

11

12

18

19

1

1

1

1

1

1

1

1

1

1

1

1

Badgett - Ripsey Proj.

5/20/68

Conference

EGH H.R.M.

Assignment

- ① Check claim corners & plot position of claim in reference to location on topo map & section corner ties
- ② Check area between STATE Surface & N. Claim boundary for claim ownership S<sup>2</sup> Sec. 10 S<sup>2</sup> Sec. 11, T. 55, R. 13 E.

82  
26  
108

Budgett Ripsey 5/16/68

Blue Boy Ellsworth Hawkins et al  
1 thru 5t loc. 1-7-68 Docket 527  
6 " 34 P 817/851  
35 " 40 loc. 1-9-68 D529  
289/293

West Ripsey loc. 4-10-67 D 512  
1 thru 45 F. Salas et al 762/?

Aurora Loc. Loretta Salas et al D 532  
1 thru 14 loc. 1-27-68 852/865  
Not on MAP furnished where?

Blue Boy 41 thru 46 loc. on ground  
A. MARTINEZ et al D 533  
3-3-68 P 107/112

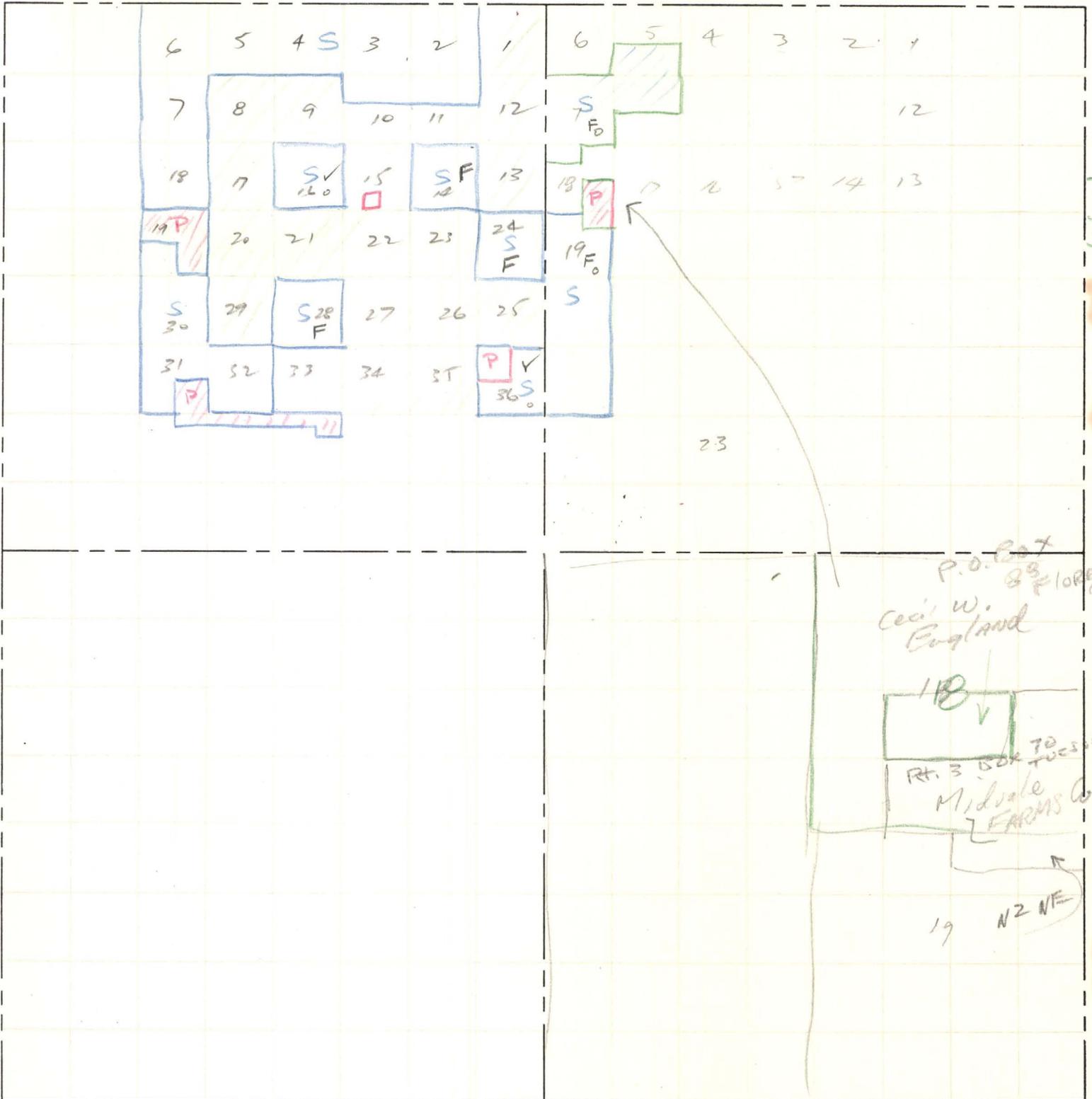


# Budgett Lipsey Project

5/15/68

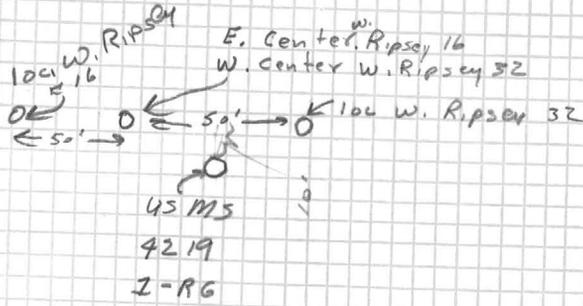
SCALE FOR SECTION, } Each side large blue squares = 20 chains, 80 rods, 1320 feet; area of square 40 acres.  
 660 Ft. = 1 Inch. } Each side small red squares = 5 chains, 20 rods, 330 feet; area of square 2 1/2 acres.

R13E N R14E



SCALE FOR QUARTER SECTION, } Each side large blue squares = 10 chains, 40 rods, 660 feet; area of square 10 acres.  
 330 Ft. = 1 Inch. } Each side small red squares = 2 1/2 chains, 10 rods, 165 feet; area of square .625 of 1 acre.

Ripsey - 2 May 68



27944

26141

1" = 600 ±

Change 1	2
3	4
5	6
7	8
9	Change 10

A  
N

Change 1-10  
Frank J. Nelson  
Loc. 1-25-68  
Rec. 1-30-68  
Docket 529  
Page 033 → 842

Sec 5, T55, R13E  
North Port

AURORA GROUP  
 Sec. 10

Sec. 11

Sec. 12

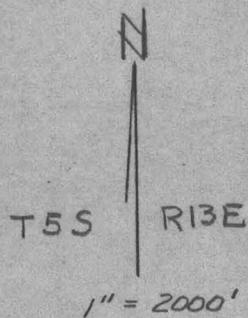
10	1							
9	2	6	7	23	24	45		
8	3	5	8	22	25	44		
7	4	4	9	21	26	43		
6	5	3	10	20	27	42	43	44
11	12	2	11	19	28	41	42	45
14	13	1	12	13	29	40	41	46

Sec. 15

WEST RIPSEY GROUP

Sec 13

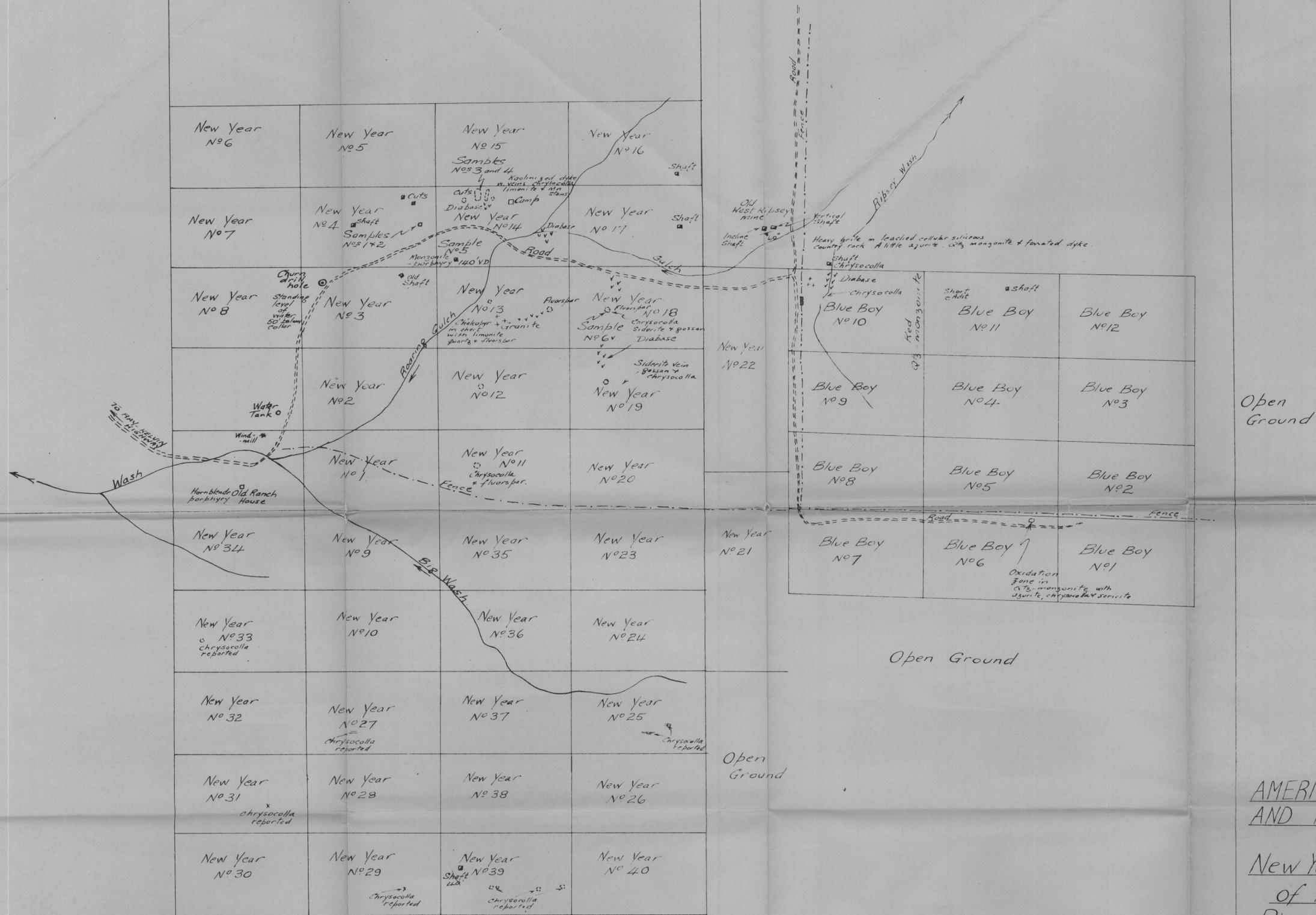
	14	30	39	5	6
	15	31	38	4	7
	16	32	37	3	8
	17	33	36	2	9
	18	34	35	1	10
40	31	30	21	20	11
39	32	29	22	19	12
38	33	28	23	18	13
37	34	27	24	17	14
36	35	26	25	16	15



BLUE BOY GROUP

Budgett Ripsey  
 Salas Group  
 Scale 1" = 2000'  
 Note  
 Locations Approx.  
 group may move  
 East 400' to land net

HEINRICHS  
 GEOEXPLORATION CO.  
 APR 5 1968  
 Box 5671 Tucson, Arizona 85709  
 Phone: (602) 623-0578  
 Cable: GEOEX  
 GEOPHYSICAL ENGINEERS



AMERICAN EXPLORATION  
 AND MINING COMPANY  
 Sketch Map  
 New Year & Blue Boy Groups  
 of Mining Claims  
 Pinal County, Arizona.  
 Scale 1"=400' approx.  
 Based on sketch by F.F. Salas,  
 with additions by C.W. Ball.

May 14, 1955.

*Badgett - Ripsey*

10 April 1969

Mr. Frank Salas, Sr.  
P. O. Box 542  
Oracle, Arizona

Re: Lease Option Agreement  
Dated - 6 May 1968  
Ripsey Mining District  
Pinal County, Arizona

Dear Frank:

According to the terms of that certain Mining Lease Option between Heinrichs Geoexploration Company, Lessee and Frank Salas Sr. et al, Lessors, and assigned by Heinrichs Geoex to Russell Badgett Jr., is terminated.

Heinrichs Geoexploration Company upon instructions from Russell Badgett, Jr., via letter and telephone communication between Salas, Badgett and Heinrichs on 1 April 1969, hereby return the property as described in Annex A of that lease option (a copy of which is attached) to Frank Salas, Sr. et al.

Surrender of this lease terminates all obligations of Heinrichs and Badgett with reference to commitments contained in said Lease Option Agreement.

We are currently preparing to furnish you with all the factual data as per Article 3 of the said option and will forward it to you soon.

Please indicate your understanding of and agreement to the foregoing by signing in the space provided and returning the copy to us.

Very truly yours,  
HEINRICHS GEOEXPLORATION COMPANY

E. Grover Heinrichs  
Vice President

EGH/plg

Enclosures

\_\_\_\_\_  
DATE

\_\_\_\_\_  
FRANK SALAS, SR., et al for Lessors

BOX 5671 TUCSON, ARIZONA 85703  
Phone: (AREA 602) 623-0578  
JUN 24 1968

**AGREEMENT TO ASSIGN ARIZONA STATE MINERAL  
LEASE AND PROSPECTING PERMIT**

**ARTICLE I**

This agreement is hereby made between Dorothy F. Bunting, hereinafter referred to as "Bunting" and Russell Badgett, Jr., hereinafter referred to as "Badgett".

**ARTICLE II**

Bunting, for and in consideration of \$1.00 and other valuable considerations, the receipt of which is hereby acknowledged under terms and conditions hereinafter set forth, does hereby agree to assign to Badgett the MINERAL LEASE AND/OR PROSPECTING PERMIT between Bunting, Lessee, and the State of Arizona, Lessor. Badgett is subject to the terms and conditions as set forth in said MINERAL PROSPECTING PERMIT, application of which is herewith attached to and made part of this Agreement.

**ARTICLE III**

The term of this Agreement shall be two (2) years from the effective date unless sooner terminated under any of the provisions herein contained or under any provisions contained in the MINERAL LEASE AND PROSPECTING PERMIT AGREEMENT, or renewed by common agreement of the parties hereto.

**ARTICLE IV**

Any expenses or costs, or payments in connection with maintaining this lease or permit will be borne by Badgett. Bunting upon receipt of a full valid prospecting permit or mineral lease from the State of Arizona on the following described lands: S<sup>2</sup> Section 2, S<sup>2</sup> Section 3, S<sup>2</sup> Section 4, all located in T5S, R13E, Pinal County, Arizona agrees to assign all rights, title, and interest to the lands as herein described.

ARTICLE V

The terms of this Agreement shall be binding upon and inure to the benefit of the heirs, administrators, executors, successors and assigns of the parties hereto.

IN WITNESS WHEREOF, this AGREEMENT TO ASSIGN MINERAL LEASE AND PROSPECTING PERMIT has been executed to be effective on and after the 15th day of May, 1968.

Dorothy F. Bunting  
DOROTHY F. BUNTING

R. Badgett, Jr.  
RUSSELL BADGETT, JR.

STATE OF ARIZONA )  
COUNTY OF PIMA ) ss.

On this 14th day of June 1968, before me, the undersigned notary public, personally appeared Dorothy F. Bunting known to me to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purpose therein contained.

In witness whereof, I hereunto set my hand and official seal.

M. Jean Heinrichs  
Notary Public

My commission expires:

July 20, 1969

STATE OF KENTUCKY) ss.  
COUNTY OF HOPKINS)

On this 17<sup>th</sup> day of June 1968 personally appeared before me, a notary public, in and for Hopkins County, known (or proved) to me to be the person described in and who executed the foregoing instrument, who acknowledged to me that he executed the same freely and voluntarily and for the uses and purposes therein mentioned.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official stamp at my office in the County of Hopkins the day and year in this certificate first above written.

Emmett D. Anderson  
Notary Public

My commission expires:

Jan. 6, 1970

AGREEMENT TO ASSIGN ARIZONA STATE MINERAL  
LEASE AND PROSPECTING PERMIT

ARTICLE I

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ARTICLE V

The terms of this Agreement shall be binding upon and inure to the benefit of the heirs, administrators, executors, successors and assigns of the parties hereto.

IN WITNESS WHEREOF, this AGREEMENT TO ASSIGN MINERAL LEASE AND PROSPECTING PERMIT has been executed to be effective on and after the 15th day of May, 1966.

Dorothy F. Bunting  
DOROTHY F. BUNTING

\_\_\_\_\_  
RUSSELL BADGETT, JR.

STATE OF ARIZONA )  
COUNTY OF PIMA ) ss.

On this 11th day of June 1968, before me, the undersigned notary public, personally appeared Dorothy F. Bunting known to me to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purpose therein contained.

In witness whereof, I hereunto set my hand and official seal.

M. J. H. H. H.  
Notary Public

My commission expires:

July 20, 1969

STATE OF KENTUCKY) ss.  
COUNTY OF HOPKINS)

On this \_\_\_\_\_ day of \_\_\_\_\_ personally appeared before me, a notary public, in and for Hopkins County, known (or proved) to me to be the person described in and who executed the foregoing instrument, who acknowledged to me that he executed the same freely and voluntarily and for the uses and purposes therein mentioned.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official stamp at my office in the County of Hopkins the day and year in this certificate first above written.

\_\_\_\_\_  
Notary Public

My commission expires:  
\_\_\_\_\_

*Bad Rip - Legal*

HEINRICH  
GEOEX  
PHYSICAL ENGINEERS  
TUCSON, ARIZONA



REC'D APR 26 1969

BOX 5671 TUCSON, ARIZONA 85703

Phone: (AREA 602) 623-0578



**HEINRICHS GEOEXPLORATION COMPANY**

806 WEST GRANT ROAD, TUCSON, ARIZONA, 85703. P.O. BOX 5671, PHONE: (AREA CODE 602) 623-0578  
10 April 1969

Mr. Frank Salas, Sr.  
P. O. Box 542  
Oracle, Arizona

Re: Lease Option Agreement  
Dated - 6 May 1968  
Ripsey Mining District  
Pinal County, Arizona

Dear Frank;

According to the terms of that certain Mining Lease Option between Heinrichs Geoexploration Company, lessee and Frank Salas Sr. et al, Lessors, and assigned by Heinrichs Geoex to Russell Badgett Jr., is terminated.

Heinrichs Geoexploration Company upon instructions from Russell Badgett, Jr., via letter and telephone communication between Salas, Badgett and Heinrichs on 1 April 1969, hereby return the property as described in Annex A of that lease option (a copy of which is attached) to Frank Salas, Sr. et al.

Surrender of this lease terminates all obligations of Heinrichs and Badgett with reference to commitments contained in said Lease Option Agreement.

We are currently preparing to furnish you with all the factual data as per Article 3 of the said option and will forward it to you soon.

Please indicate your understanding of and agreement to the foregoing by signing in the space provided and returning the copy to us.

Very truly yours,  
HEINRICHS GEOEXPLORATION COMPANY

*E. Grover Heinrichs*  
E. Grover Heinrichs  
Vice President

EGH/plg

Enclosures

4-12-69  
DATE

*Frank F. Salas Sr.*  
FRANK SALAS, SR., et al for Lessors

Mr. Frank Salas

-2-

April 25, 1969

Mr. Badgett has instructed us to turn the drill core over to you. We will await your instructions as to the disposal of the core but after 15 May 1969 we will have to assign the charges for storing the core to you.

Sincerely,

HEINRICHS GEOEXPLORATION COMPANY

*Donald B. Cooley*

Donald B. Cooley  
Geologist

DBC/rc

Enclosures 8

cc: Mr. Russell Badgett, Jr.  
1822 N. Main Street  
Madisonville, Kentucky 42431

Via Certified Mail  
Return receipt requested #580633

RECEIPT FOR CERTIFIED MAIL—30¢

SENT TO  
Frank Salas  
STREET AND NO.  
P. O. Box 542  
P. O., STATE, AND ZIP CODE  
Oracle, Arizona 85623

POSTMARK  
ON DATE  
TUCSON, ARIZ. ANNEX STA.  
APR 26 1969  
USPS

EXTRA SERVICES FOR ADDITIONAL FEES  
Return Receipt  50¢ fee  
Shows to whom, date, and where delivered  35¢ fee

POD Form 3800 NO INSURANCE COVERAGE PROVIDED— (See other side)  
Mar. 1986

No. 580633

INSTRUCTIONS TO DELIVERING EMPLOYEE

Show to whom, date, and address where delivered  Deliver ONLY to addressee  
(Additional charges required for these services)

RECEIPT  
Received the numbered article described below.

REGISTERED NO. \_\_\_\_\_ SIGNATURE OR NAME OF ADDRESSEE (Must always be filled in)  
*Frank Salas*

CERTIFIED NO. 580633  
SIGNATURE OF ADDRESSEE'S AGENT, IF ANY  
*[Signature]*

INSURED NO. \_\_\_\_\_

DATE DELIVERED *4/28/69* SHOW WHERE DELIVERED (only if required) *W* 1969

Baldert - Ripsey

1st Draft

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MINING LEASE AND OPTION

1ST DRAFT

THIS LEASE AND OPTION AGREEMENT made and entered into this \_\_\_\_\_ day of April, 1968, by and between FRANK SALAS, SR., FRANK SALAS, JR., MANUEL S. CHAVEZ, ELLSWORTH L. HAWKINS, ALFREDO R. MARTINEZ, RICHARD E. MARTINEZ, AUGUSTINE S. MARQUEZ, LORETTO F. SALAS and THOMAS E. SALAS, herein referred to as Lessors, and HEINRICHS GEOEXPLORATION COMPANY, INC., an Arizona corporation, herein referred to as Lessee;

W I T N E S S E T H:

WHEREAS, the Lessors are the owners of certain unpatented lode mining claims in the Ripsey Mining District, Pinal County, Arizona, more particularly described in Annex A, which is attached hereto and made a part of this Lease by reference; and

WHEREAS, Lessee is desirous of leasing said claims with an option to purchase;

IT IS THEREFORE MUTUALLY AGREED as follows:

1. GRANTING: The Lessors, in consideration of the covenants and agreements hereinafter expressed do hereby grant to Lessee those certain unpatented lode mining claims described in Annex A hereinafter referred to as the claims.

2. TERM: This lease shall be for a term of twenty<sup>one</sup>~~two~~ (21) months, commencing at noon on the 5th day of April, 1968, and expiring at noon on the 5th day of January, 1970, unless sooner terminated or forfeited under the provisions of this lease.

3. EXPLORATION PROGRAM: For and in consideration of the granting of this Lease, Lessee does hereby agree to undertake a geophysical exploration program on the property and to commence forthwith a program of magnetometer survey, geochemical, or other type of engineering tending to develop the property. Forthwith shall be understood to mean to be within six (6) weeks from the date of the execution of this agreement. In the event of the

1 termination or forfeiture of this Lease, the Lessee shall furnish  
2 to Lessors within six (6) weeks copies of all maps, surveys,  
3 exploratory drilling logs, assay reports, and all other factual  
4 data and interpretation reports prepared from or connected with  
5 the claims.

6 4. OPTION TO BUY: During the term of this Lease, the  
7 Lessee shall have the option of purchasing the claims for a  
8 total purchase price of One Million, Five Hundred Thousand  
9 Dollars (\$1,500,000.00), which shall be due and payable upon the  
10 exercise of the option.

11 5. DEED: The Lessors agree to execute and deliver a valid  
12 standard mining deed to the above described property to the  
13 Lessee upon the exercise of his option to buy. It is understood  
14 and agreed that the Lessee may deposit the purchase price in  
15 escrow with a bank or title company pending the execution and  
16 delivery of said deed and examination for merchantable title.

17 6. LIENS: Lessee shall pay, as due, all claims for work  
18 done, services rendered, or material furnished to the leased  
19 premises, and shall hold Lessors harmless from any liability  
20 arising out of any operations under the Lease. Lessee shall  
21 defend all suits or claims at its own expense, and shall keep the  
22 leased premises free from any liens. Lessee shall post and keep  
23 posted in conspicuous places at or near all parts of the premises  
24 where operations under the lease are in progress, notices of non-  
25 liability reciting in substance that the premises are leased and  
26 that neither Lessors nor the premises may be held liable for any  
27 claims of any kind arising out of Lessee's operations.

28 7. FIXTURES: Lessee shall have the right during the term  
29 of this lease or within sixty (60) days after the termination  
30 of this lease to remove all machinery, fixtures, and improvements  
31 placed or erected on the premises by the Lessee.

32 8. ASSIGNMENT OR SUBLEASING: Lessee shall not assign

1 or sublease any part of the leased premises without the written  
2 consent of Lessors, which shall not unreasonably be withheld.  
3 Assignment of the lease shall terminate all liabilities of Lessee  
4 under the lease except those already accrued.

5 9. WORKMEN'S COMPENSATION INSURANCE: Lessee assumes  
6 full responsibility in case of accident to Lessee, its agent or  
7 any person employed on the leased premises, and agrees to hold  
8 Lessors harmless from any suits for injury or accident arising out  
9 of employment. Lessee shall apply for and maintain at all times  
10 workmen's compensation insurance pursuant to the laws of the State  
11 of Arizona and shall comply in all respects with any state or  
12 Federal laws pertaining to employment of persons in mining  
13 operations.

14 10. FORFEITURE: If Lessee violates any of the provi-  
15 sions of this lease or fails to perform any covenants made by it  
16 herein, Lessors may, at their option, forfeit this lease by giving  
17 notice to Lessee of their election to forfeit the lease, and by  
18 specifying in such notice the matters in which Lessee is in  
19 default; provided, however, that such forfeiture shall be in-  
20 operative if within thirty (30) days from the effective date of  
21 such notice, Lessee remedies the matters of default specified by  
22 Lessors.

23 11. NOTICE: Any written notices provided for herein shall  
24 be sent by registered mail, return receipt requested, and  
25 addressed as follows:

26 To Lessors: c/o Frank Salas, Sr.  
Oracle, Arizona

27 To Lessee: Heinrichs Geoexploration Company, Inc.  
28 808 West Grand Road  
Tucson, Arizona

29  
30 Either party may change the name or address above by written  
31 notice to the other party. Notices shall be effective when  
32 deposited in the U. S. Mail.

1           12. SURRENDER: Lessee may surrender this lease at any  
2 time by giving Lessors thirty (30) days' notice, provided that  
3 either (1) the notice is given at least thirty (30) days before  
4 the end of the assessment year, or (2) the assessment work has  
5 been done and the proofs filed as required by law. Surrender  
6 shall terminate all obligations of Lessee except those that have  
7 already accrued.

8           13. ARBITRATION: All disputes between Lessors and Lessee  
9 regarding the interpretation of this lease or the performance  
10 of the provisions of this lease shall be settled by arbitration.  
11 The arbitrator shall be John Splane. The arbitration hearing  
12 shall be held in Tucson, Arizona. The laws of Arizona shall  
13 apply to this clause and to the hearing.

14           14. TAXES: Lessee will pay all taxes levied upon the  
15 mine, or mine operation, including improvements, equipment,  
16 machinery or other facilities upon and used in connection with  
17 mining the premises.

18           15. COMPLIANCE WITH LAWS: Lessee shall comply with all  
19 laws and regulations of the State of Arizona and of the United  
20 States pertaining to mining operations, including, but not limited  
21 to, those related to employment such as social security and  
22 withholding taxes.

23           16. METHOD OF WORK: Lessee shall perform all work on  
24 the leased premises in accordance with good and economical mining  
25 practices, so as to take out the greatest amount of ore possible  
26 but with due care taken to develop and preserve the premises as  
27 a workable mining property. The premises shall be kept suffi-  
28 ciently timbered, free from loose rock or rubbish and otherwise  
29 in and safe and proper condition.

30           17. INSPECTION OF PREMISES: Lessors or their agents may,  
31 at all reasonable times, and at Lessors' sole risk, enter upon  
32 and into the leased premises for inspection or to conduct survey

1 or sampling operations; provided that such activities shall not  
2 unreasonably interfere with the operations of Lessee.

3 18. SURFACE RIGHTS: Lessee shall have the right to use  
4 the surface of the leased premises only to the extent reasonably  
5 necessary for prospecting, development, mining, and other opera-  
6 tions reasonably incident thereto.

7 19. ASSESSMENT WORK: Lessee shall perform all necessary  
8 assessment work upon the leased premises at least thirty (30) days  
9 before the end of each assessment period, and file all reports  
10 and affidavits when and as required by law.

11 20. FORCE MAJEURE: If Lessee is prevented from carrying  
12 out the terms and provisions of this lease by acts of God,  
13 strikes, lockouts, fire, unusual delay in transportation, orders  
14 of the government or any duly constituted instrumentality thereof,  
15 unavoidable casualties or any causes beyond the control of the  
16 Lessee, then said Lessee shall be excused from complying with  
17 this Agreement for the period of such interruption, and the time  
18 within which said party may do any acts shall be extended by the  
19 period of such interruption.

20 21. INUREMENT: This is an entire agreement between the  
21 parties and all previous agreements, understandings, represen-  
22 tations between the parties are hereby cancelled, terminated and  
23 of no further force or effect. This agreement shall be binding  
24 upon and inure to the benefit of the parties hereto, their  
25 personal representatives, successors, executors, heirs and assigns.

26 IN WITNESS WHEREOF, the parties hereto have set their hands  
27 this \_\_\_\_\_ day of April, 1968.

28  
29 \_\_\_\_\_  
FRANK SALAS, SR.

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31 \_\_\_\_\_  
FRANK SALAS, JR.

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MANUEL S. CHAVEZ

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ELLSWORTH L. HAWKINS

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ALFREDO R. MARTINEZ

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RICHARD E. MARTINEZ

\_\_\_\_\_  
AUGUSTINE S. MARQUEZ

\_\_\_\_\_  
LORETTO F. SALAS

\_\_\_\_\_  
THOMAS E. SALAS

LESSORS

HEINRICHS GEOEXPLORATION COMPANY, INC.

By \_\_\_\_\_

LESSEE

STATE OF ARIZONA }  
COUNTY OF } ss.

The foregoing Mining Lease and Option was acknowledged before me this \_\_\_\_\_ day of April, 1968, by Frank Salas, Sr., Frank Salas, Jr., Manuel S. Chavez, Ellsworth L. Hawkins, Alfredo R. Martinez, Richard E. Martinez, Augustine S. Marquez, Loretto F. Salas and Thomas E. Salas.

\_\_\_\_\_  
Notary Public

My Commission Expires:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



Bill Rip - Geox - Salas

11/25/68

Re: Summary & Obligations  
Salas - Budget agreements ~~agreements~~

1. <sup>anniversary</sup> Date : 6 May 1968 (effective date?)

2. Term - 24 Mos - i.e. 5 May 1970, renewable upon payment of \$90,000<sup>00</sup> deductible from purchase price

3. Conditions :

- (a) 5% prod. <sup>production</sup> royalty " " "
- (b) \$14,285.71 per claim " "
- (c) Complete assessment work (30 days before <sup>end of the</sup> assessment yr.) by 2 Aug <sup>as presently required.</sup>

(This was done by drilling drill holes #1 & 2 by 1 Sept 1968)

\$00/claim for 105 claims = \$10,500<sup>00</sup>

By 2 Aug 1969 <sup>more must</sup> have been expended, to hold.

file affidavits as required by law.

(Actually none required in ARIZONA)

(d) Supply copies of results <sup>within</sup> 6 weeks after termination of agreement.

Bad Rip

12/11/68

Status Solas Assessment or Annual Labor

Re: 1967-1968 year: Road Dozing  
D.D.H #1

D.D.H #2 - 0' to 760' ± ~~760'~~  
1 Sept Sun

Re: 1968-1969 Year: D.D.H. #2 - 760' ± Mon 2 Sept

end of hole 1497' 9/24/68  
760' ±

Total drilled = 737' ± during Sept  
1968.

Using  $\$5^3$   
 $\$28.75/\text{ft}$  (Joy contract price)

737'

6125

2625

6125

\\$6448.75

12/11/68

Using <sup>Geot</sup> Statement of 4 Oct 1968

for weeks ending 1 Sept thru 28 Sept = 4 weeks  
plus week " 17 Aug = \$6000<sup>00</sup> approx for 5 weeks total

$$\frac{\$6000}{5 \text{ weeks}} = \$1200/\text{week} \times 4 = \$4800^{00} \text{ for month}$$

\$4800  
5360

70% exclusively on Salas claims = \$3360<sup>00</sup> use <sup>of Sept.</sup> \$2500<sup>00</sup>

(Only that part which legally applies toward annual labor)

an allowable proportion

plus ~~John Reader~~ & Marion Davis  
time during Sept 1968 only

~~\$600~~ + total estimated

Drilling  
Dozing  
Core logging, ie: geology  
& geochem work does apply

2500 core logging  
& geo/chem & geod. data  
6448 drilling

\$ ~~10848~~ 10,548

Assaying,  
Supervision & interpretation  
do not generally apply.

plus  
dozing  
etc.



25 April 1969

Mr. Frank Salas  
P. O. Box 542  
Oracle, Arizona 85623

Dear Mr. Salas:

Pursuant to instructions from our client Mr. Russell Badgett, Jr. of Madisonville, Kentucky, we are sending you the following maps and data on the Ripsey Property:

1. Map 262-68-1; Composite Plan Map, Ripsey Project, Pinal County, Arizona.
2. Diamond Drill Hole Graphic Log for Holes 1, 2, and 3.
3. Drill Core and Assay Logs for Holes 1, 2, and 3.
4. Map 262-68-2; Reconnaissance Molybdenum Geochemical Survey Map.
5. Map 262-68-3; Reconnaissance Copper Geochemical Survey.
6. Map 262-68-4; Reconnaissance Lead Geochemical Survey.
7. Map 262-68-5; Reconnaissance Zinc Geochemical Survey.
8. Eight Induced Polarization Sectional Data Sheets with Interpretation for I.P. Lines 1 through 7.

To date neither Mr. Badgett nor GEOEX has received a copy of the release signed by you. Would you please attend to this as soon as possible?

**RUSSELL BADGETT, JR. COAL COMPANY**

1822 NORTH MAIN ST.

MADISONVILLE, KENTUCKY

April 1, 1969

R. BADGETT, JR.  
OWNER

PHONE  
821-1583

HEINRICH  
GEOX  
TECHNICAL ENGINEER  
TUCSON, ARIZONA



REC'D APR 4 1969 REC'D

BOX 5671 TUCSON, ARIZONA 85703  
Phone: (AREA 602) 623-0578

Mr. Walter Heinrichs, Jr., President  
Heinrichs Geoexploration Company  
Box 5671  
Tucson, Arizona 85703

Dear Walt:

This letter, of my notice to terminate the sublease from Heinrichs Geoexploration Company on the Frank Salas, et al, claim group, will confirm our telephone conversation of yesterday.

I am giving 30 days notice of my intent to terminate, according to Item #12 which is the SURRENDER clause.

This decision is reached due to the fact that I believe that any mineralization on this claim group will be deeper than I can afford to prospect and mine.

Under this lease the claim owner is to have the benefit of the cores, core and geochem analyses, I P work, logs of drilling, and any other pertinent data which we have accumulated. I wish to state that this letter will serve as your authority to deliver to Frank Salas the above. I will expect to pay for the cost of shipping and any copying of maps, logs, etc. which it entails.

To Do  
BUEZ  
1/2 Don

Sincerely,

*R. Badgett, Jr.*  
Russell Badgett, Jr.

/jtw

cc: Mr. Frank Salas  
Box 542  
Oracle, Arizona

Ripsy  
Contract

Please sign & Return



JUL 1 1968

AGREEMENT TO ASSIGN  
MINING LEASE AND OPTION

BOX 5671 TUCSON, ARIZONA 85703  
Phone: (AREA 602) 623-0578

ARTICLE I

This agreement is hereby made between Heinrichs Geoexploration Company, an Arizona Corporation, hereinafter referred to as "Geoex" and Russell Badgett, Jr., hereinafter referred to as "Badgett".

ARTICLE II

Geoex, for and in consideration of \$1.00 and other valuable considerations, the receipt of which is hereby acknowledged under terms and conditions hereinafter set forth, does hereby agree to assign to Badgett that certain Mining Lease and Option between Geoex, Lessee, and Frank Salas, Sr., Frank Salas, Jr., Manuel S. Chavez, Ellsworth L. Hawkins, Alfredo R. Martinez, Augustine S. Marquez, Loretto F. Salas, Thomas E. Salas, and Richard E. Martinez, Lessors. Badgett is subject to the terms and conditions as set forth in said Mining Lease and Option, copy of which is herewith attached to and made part of this Agreement.

ARTICLE III

The term of this Agreement shall be two (2) years from the effective date unless sooner terminated under any of the provisions herein contained or under any provisions contained in the Mining Lease and Option, or renewed by common agreement of the parties hereto.

ARTICLE IV

Any expenses or costs, or payments in connection with maintaining this lease or permit will be borne by Badgett. Geoex agrees to assign all rights, title, and interest to the lands as herein described except as stated in that certain royalty agreement between Geoex and Badgett dated December 27, 1967.



STATE OF KENTUCKY )  
COUNTY OF HOPKINS ) ss.

On this 27<sup>th</sup> day of June 1968, personally appeared before me, a notary public, in and for Hopkins County, known (or proved) to me to be the person described in and who executed the foregoing instrument, who acknowledged to me that he executed the same freely and voluntarily and for the uses and purposes therein mentioned.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official stamp at my office in the County of Hopkins the day and year in this certificate first above written.

Wonna J. Rodgas  
Notary Public

My commission expires:

My Commission Expires February 27, 1971

*Spare Copy  
Final Draft  
Not signed*

MINING LEASE AND OPTION

THIS LEASE AND OPTION AGREEMENT made and entered into this 6th day of May, 1968, by and between FRANK SALAS, SR., FRANK SALAS, JR., MANUEL S. CHAVEZ, ELLSWORTH L. HAWKINS, ALFREDO R. MARTINEZ, RICHARD E. MARTINEZ, AUGUSTINE S. MARQUEZ, LORETTO F. SALAS and THOMAS E. SALAS, herein referred to as Lessors, and HEINRICHS GEOEXPLORATION COMPANY, INC., an Arizona corporation, herein referred to as Lessee;

W I T N E S S E T H:

WHEREAS, the Lessors are the owners of certain unpatented lode mining claims in the Ripsey Mining District, Pinal County, Arizona, more particularly described in Annex A, which is attached hereto and made a part of this Lease by reference; and

WHEREAS, Lessee is desirous of leasing said claims with an option to purchase;

IT IS THEREFORE MUTUALLY AGREED as follows:

1. GRANTING: The Lessors, in consideration of the covenants and agreements hereinafter expressed do hereby grant to Lessee those certain unpatented lode mining claims described in Annex A hereinafter referred to as the claims.

2. TERM: This lease shall be for a period of 24 months from its effective date unless sooner terminated under any of the provisions herein contained or renewed and extended as outlined herein.

3. EXPLORATION PROGRAM: For and in consideration of the granting of this Lease, Lessee does hereby agree to undertake an exploration program on the property and to commence forthwith a

program of Geology, Geophysics and Geochemistry, or other type of engineering tending to develop the property. Forthwith shall be understood to mean to be within six (6) weeks from the date of the execution of this agreement. In the event of the termination or forfeiture of this Lease, the Lessee shall furnish to Lessors within six (6) weeks copies of all maps, surveys, exploratory drilling logs, assay reports, and all other factual data and interpretation reports prepared from or connected with the claims.

4. PAYMENTS: During the term of this Lease, the Lessee is granted the right to mine and dispose of any and all ores, minerals or concentrates, owned by Lessee or Lessors, within the area of this Agreement, but shall pay to Lessors, after deduction of expenses of mining and transportation to the smelter or other reduction works, a royalty on all such ores, minerals or concentrates, of five percent (5%) of the net smelter or mill returns, payments of royalty to Lessors to be made within ten (10) days after settlement received by Lessee. All such amounts or royalty paid to Lessors shall apply on, and be deducted from the purchase price specified in Section 5 in the event Lessee elects to purchase all or any portion of the claims.

5. OPTION TO BUY: At any time during the term of this Agreement or any renewal or extension thereof, Lessee shall have the exclusive right to purchase all, or any designated portion, of the claims by delivering or mailing to Lessors (with a copy to the escrow agent) notice of its election, which notice shall specify which portion of the claims Lessee chooses to purchase. If Lessors elect to purchase all or any portion of the claims, the

purchase price to be paid for the claims included within the area selected shall be computed on the basis of Fourteen Thousand Two Hundred Eighty Five Dollars and Seventy One Cents (\$14,285.71) <sup>12,000</sup> which the acreage of the claim bears to the acreage of a full-sized claim of 20.661 acres. The total purchase price so computed shall be reduced by all payments made to Lessors under the provisions of Sections 4 and 6. The resulting amount is hereinafter referred to as the "Net Purchase Price". Lessee shall pay to Lessors the Net Purchase Price in five (5) equal annual installments as follows: The first installment to be deposited with an escrow agent upon exercise of the option to purchase and the remaining four (4) installments to be deposited with escrow agent to the credit of Lessors at yearly intervals thereafter. Lessors shall be required to pay the cost of all applicable state and federal stamp or deed taxes.

6. RENTAL: At the end of the twenty four (24) months, <sup>36</sup> following execution of the agreement, if the Lessor at its option wishes to maintain this agreement in full force and effect a sum of Ninety Thousand Dollars (\$90,000.00) will be due Lessors as rental on the property. This rental money shall apply on, and be deducted from, the purchase price specified in Section 5. <sup>12</sup>  
<sup>12</sup>  
132

7. DEED: The Lessors agree to execute and deliver a valid standard mining deed to the above described property to the Lessee upon the exercise of his option to buy. It is understood and agreed that the Lessee may deposit the purchase price in escrow with a bank or title company pending the execution and delivery of said deed and examination for merchantable title.

8. LIENS: Lessee shall pay, as due, all claims for work

done, services rendered, or material furnished to the leased premises, and shall hold Lessors harmless from any liability arising out of any operations under the Lease. Lessee shall defend all suits or claims at its own expense, and shall keep the leased premises free from any liens. Lessee shall post and keep posted in conspicuous places at or near all parts of the premises where operations under the lease are in progress, notices of non-liability reciting in substance that the premises are leased and that neither Lessors nor the premises may be held liable for any claims of any kind arising out of Lessee's operations.

9. FIXTURES: Lessee shall have the right during the term of this lease or within sixty (60) days after the termination of this lease to remove all machinery, fixtures, and improvements placed or erected on the premises by the Lessee.

10. ASSIGNMENT OR SUBLEASING: Lessee shall not assign or sublease any part of the leased premises without the written consent of Lessors, which shall not unreasonably be withheld. Assignment of the lease shall terminate all liabilities of Lessee under the lease except those already accrued.

11. WORKMEN'S COMPENSATION INSURANCE: Lessee assumes full responsibility in case of accident to Lessee, its agent or any person employed on the leased premises, and agrees to hold Lessors harmless from any suits for injury or accident arising out of employment. Lessee shall apply for and maintain at all times workmen's compensation insurance pursuant to the laws of the State of Arizona and shall comply in all respects with any state or Federal laws pertaining to employment of persons in mining operations.

12. FORFEITURE: If Lessee violates any of the provisions of this lease or fails to perform any covenants made by it herein, Lessors may, at their option, forfeit this lease by giving notice to Lessee of their election to forfeit the lease, and by specifying in such notice the matters in which Lessee is in default; provided, however, that such forfeiture shall be inoperative if within thirty (30) days from the effective date of such notice, Lessee remedies the matters of default specified by Lessors.

13. NOTICE: Any written notices provided for herein shall be sent by registered mail, return receipt requested, and addressed as follows:

To Lessors: c/o Frank Salas, Sr.  
Oracle, Arizona

*Filmore Heikila*

To Lessee: Heinrichs Geoexploration Company, Inc.  
P. O. Box 5671  
Tucson, Arizona 85703

Either party may change the name or address above by written notice to the other party. Notices shall be effective when deposited in the U. S. Mail.

14. SURRENDER: Lessee may surrender this lease at any time by giving Lessors thirty (30) days' notice, provided that either (1) the notice is given at least thirty (30) days before the end of the assessment year, or (2) the assessment work has been done and the proofs filed as required by law. Surrender shall terminate all obligations of Lessee except those that have already accrued.

15. ARBITRATION: All disputes between Lessors and Lessee regarding the interpretation of this lease or the performance

of the provisions of this lease shall be settled by arbitration. The arbitrator shall be John Splane. The arbitration hearing shall be held in Tucson, Arizona. The laws of Arizona shall apply to this clause and to the hearing.

16. TAXES: Lessee will pay all taxes levied upon the mine, or mine operation, including improvements, equipment, machinery or other facilities upon and used in connection with mining the premises.

17. COMPILANCE WITH LAWS: Lessee shall comply with all laws and regulations of the State of Arizona and of the United States pertaining to mining operations, including, but not limited to, those related to employment such as social security and withholding taxes.

18. METHOD OF WORK: Lessee shall perform all work on the leased premises in accordance with good and economical mining practices, so as to take out the greatest amount of ore possible but with due care taken to develop and preserve the premises as a workable mining property. The premises shall be kept sufficiently timbered, free from loose rock or rubbish and otherwise in and safe and proper condition.

19. INSPECTION OF PREMISES: Lessors or their agents may, at all reasonable times, and at Lessors' sole risk, enter upon and into the leased premises for inspection or to conduct survey or sampling operations; provided that such activities shall not unreasonable interfere with the operations of Lessee.

20. SURFACE RIGHTS: Lessee shall have the right to use the surface of the leased premises only to the extent reasonably necessary for prospecting, development, mining, and other opera-

tions reasonably incident thereto.

21. ASSESSMENT WORK: Lessee shall perform all necessary assessment work upon the leased premises at least thirty (30) days before the end of each assessment period, and file all reports and affidavits when and as required by law.

22. FORCE MAJEURE: If Lessee is prevented from carrying out the terms and provisions of this lease by acts of God, strikes, lockouts, fire, unusual delay in transportation, orders of the government or any duly constituted instrumentality thereof, unavoidable casualties or any causes beyond the control of the Lessee, then said Lessee shall be excused from complying with this Agreement for the period of such interruption, and the time within which said party may do any acts shall be extended by the period of such interruption.

23. INUREMENT: This is an entire agreement between the parties and all previous agreements, understandings, representations between the parties are hereby cancelled, terminated and of no further force or effect. This agreement shall be binding upon and inure to the benefit of the parties hereto, their personal representatives, successors, executors, heirs and assigns.

IN WITNESS WHEREOF, the parties hereto have set their hands this 6th day of May, 1968.

---

FRANK SALAS, SR.

---

FRANK SALAS, JR.

\_\_\_\_\_  
MANUEL S. CHAVEZ

\_\_\_\_\_  
ELLSWORTH L. HAWKINS

\_\_\_\_\_  
ALFREDO R. MARTINEZ

\_\_\_\_\_  
RICHARD E. MARTINEZ

\_\_\_\_\_  
AUGUSTINE S. MARQUEZ

\_\_\_\_\_  
LORETTO F. SALAS

\_\_\_\_\_  
THOMAS E. SALAS

LESSORS

HEINRICHS GEOEXPLORATION COMPANY, INC.

By \_\_\_\_\_

LESSEE

STATE OF ARIZONA    )  
                          )  
COUNTY OF            ) ss,

The foregoing Mining Lease and Option was acknowledged before me this \_\_\_\_\_ day of April, 1968, by Frank Salas, Sr., Frank Salas, Jr., Manuel S. Chavez, Ellsworth L. Hawkins, Alfredo R. Martinez, Richard E. Martinez, Augustine S. Marquez, Loretto F. Salas and Thomas E. Salas.

\_\_\_\_\_  
Notary Public

My Commission Expires:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Manuel S. Chavez  
MANUEL S. CHAVEZ

Ellsworth L Hawkins  
ELLSWORTH L. HAWKINS

Alfredo R. Martinez  
ALFREDO R. MARTINEZ

Richard E. Martinez  
RICHARD E. MARTINEZ

Augustine S. Marquez  
AUGUSTINE S. MARQUEZ

Loretto F. Salas  
LORETTO F. SALAS

Thomas E. Salas  
THOMAS E. SALAS

LESSORS

HEINRICHS GEOEXPLORATION COMPANY, INC.

By

State of California

County of .....

} ss

— ACKNOWLEDGMENT—General—

On this 4<sup>th</sup> day of May A. D. 1968 before me,  
W. L. Ehlert a Notary Public in and for the said  
County and State, residing therein, duly commissioned and sworn, personally ap-  
peared AUGUSTINE S. MARQUEZ

known to me to be the person whose name he subscribed to the  
within Instrument, and acknowledged to me that he executed the same.  
In Witness Whereof, I have hereunto set my hand and affixed my official seal  
the day and year in this Certificate first above written. W. L. Ehlert

Notary Public in and for said County and State of California

My Commission Expires June 4, 1968

Form GA — Sam Hopkins Legal Forms Printing Service, 2328 Fruitvale Ave., Oakland, Calif.

STATE OF ARIZONA     )  
                              )  
COUNTY OF PIMA     ) ss.

On this the \_\_\_\_\_ day of April, 1968, before me, the undersigned officer, personally appeared \_\_\_\_\_, who acknowledged himself to be the \_\_\_\_\_ of HEINRICH'S GEOEXPLORATION COMPANY, INC., a corporation, and that he, as such \_\_\_\_\_, being authorized so to do, executed the foregoing instrument for the purposes therein contained, by signing the name of the corporation by himself as \_\_\_\_\_.

In witness whereof I hereunto set my hand and official seal.

\_\_\_\_\_  
Notary Public

ANNEX A

DESCRIPTION OF PROPERTY

1. The first group consists of forty-five (45) claims known as the West Ripseys 1 through 45, located in Sections 10, 11, 14 and 15, Township 5 South, Range 13 East, G&SRB&M, Pinal County, Arizona, and of record in the office of the County Recorder, Pinal County, Arizona.

2. The second group consists of forty-six (46) claims known as the Blue Boys 1 through 46, situated in Sections 13, 14, 22, 23 and 24, Township 5 South, Range 13 East, G&SRB&M, Pinal County, Arizona, and of record in the office of the County Recorder, Pinal County, Arizona.

3. The third group consists of fourteen (14) claims known as the Auroras 1 through 14, situated in Sections 10 and 15, Township 5 South, Range 13 East, G&SRB&M, Pinal County, Arizona, and of record in the office of the County Recorder, Pinal County, Arizona.

It being understood and agreed insofar as the Lessors are concerned, that Group One consists of seven-fifteenths (7/15ths) of the whole, Group Two six-fifteenths (6/15ths) and Group Three two-fifteenths (2/15ths) of the claims.

ANNEX A

DESCRIPTION OF PROPERTY

1. The first group consists of forty-five (45) claims known as the West Ripseys 1 through 45, located in Sections 10, 11, 14 and 15, Township 5 South, Range 13 East, G&SRB&M, Pinal County, Arizona, and of record in the office of the County Recorder, Pinal County, Arizona.

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It being understood and agreed insofar as the Lessors are concerned, that Group One consists of seven-fifteenths (7/15ths) of the whole, Group Two six-fifteenths (6/15ths) and Group Three two-fifteenths (2/15ths) of the claims.

Space Copy  
Not completely  
Signed  
Final Draft

MINING LEASE AND OPTION

THIS LEASE AND OPTION AGREEMENT made and entered into this 6th day of May, 1968, by and between FRANK SALAS, SR., FRANK SALAS, JR., MANUEL S. CHAVEZ, ELLSWORTH L. HAWKINS, ALFREDO R. MARTINEZ, RICHARD E. MARTINEZ, AUGUSTINE S. MARQUEZ, LORETTO F. SALAS and THOMAS E. SALAS, herein referred to as Lessors, and HEINRICHS GEOEXPLORATION COMPANY, INC., an Arizona corporation, herein referred to as Lessee;

W I T N E S S E T H:

WHEREAS, the Lessors are the owners of certain unpatented lode mining claims in the Ripsey Mining District, Pinal County, Arizona, more particularly described in Annex A, which is attached hereto and made a part of this Lease by reference; and

WHEREAS, Lessee is desirous of leasing said claims with an option to purchase;

IT IS THEREFORE MUTUALLY AGREED as follows:

1. GRANTING: The Lessors, in consideration of the covenants and agreements hereinafter expressed do hereby grant to Lessee those certain unpatented lode mining claims described in Annex A hereinafter referred to as the claims.

2. TERM: This lease shall be for a period of 24 months from its effective date unless sooner terminated under any of the provisions herein contained or renewed and extended as outlined herein.

3. EXPLORATION PROGRAM: For and in consideration of the granting of this Lease, Lessee does hereby agree to undertake an exploration program on the property and to commence forthwith a

program of Geology, Geophysics and Geochemistry, or other type of engineering tending to develop the property. Forthwith shall be understood to mean to be within six (6) weeks from the date of the execution of this agreement. In the event of the termination or forfeiture of this Lease, the Lessee shall furnish to Lessors within six (6) weeks copies of all maps, surveys, exploratory drilling logs, assay reports, and all other factual data and interpretation reports prepared from or connected with the claims.

4. PAYMENTS: During the term of this Lease, the Lessee is granted the right to mine and dispose of any and all ores, minerals or concentrates, owned by Lessee or Lessors, within the area of this Agreement, but shall pay to Lessors, after deduction of expenses of mining and transportation to the smelter or other reduction works, a royalty on all such ores, minerals or concentrates, of five percent (5%) of the net smelter or mill returns, payments of royalty to Lessors to be made within ten (10) days after settlement received by Lessee. All such amounts or royalty paid to Lessors shall apply on, and be deducted from the purchase price specified in Section 5 in the event Lessee elects to purchase all or any portion of the claims.

5. OPTION TO BUY: At any time during the term of this Agreement or any renewal or extension thereof, Lessee shall have the exclusive right to purchase all, or any designated portion, of the claims by delivering or mailing to Lessors (with a copy to the escrow agent) notice of its election, which notice shall specify which portion of the claims Lessee chooses to purchase. If Lessors elect to purchase all or any portion of the claims, the

purchase price to be paid for the claims included within the area selected shall be computed on the basis of Fourteen Thousand Two Hundred Eighty Five Dollars and Seventy One Cents (\$14,285.71) which the acreage of the claim bears to the acreage of a full-sized claim of 20.661 acres. The total purchase price so computed shall be reduced by all payments made to Lessors under the provisions of Sections 4 and 6. The resulting amount is hereinafter referred to as the "Net Purchase Price". Lessee shall pay to Lessors the Net Purchase Price in five (5) equal annual installments as follows: The first installment to be deposited with an escrow agent upon exercise of the option to purchase and the remaining four (4) installments to be deposited with escrow agent to the credit of Lessors at yearly intervals thereafter. Lessors shall be required to pay the cost of all applicable state and federal stamp or deed taxes.

6. RENTAL: At the end of the twenty four (24) months, following execution of the agreement, if the Lessor at its option wishes to maintain this agreement in full force and effect a sum of Ninety Thousand Dollars (\$90,000.00) will be due Lessors as rental on the property. This rental money shall apply on, and be deducted from, the purchase price specified in Section 5.

7. DEED: The Lessors agree to execute and deliver a valid standard mining deed to the above described property to the Lessee upon the exercise of his option to buy. It is understood and agreed that the Lessee may deposit the purchase price in escrow with a bank or title company pending the execution and delivery of said deed and examination for merchantable title.

8. LIENS: Lessee shall pay, as due, all claims for work

done, services rendered, or material furnished to the leased premises, and shall hold Lessors harmless from any liability arising out of any operations under the Lease. Lessee shall defend all suits or claims at its own expense, and shall keep the leased premises free from any liens. Lessee shall post and keep posted in conspicuous places at or near all parts of the premises where operations under the lease are in progress, notices of non-liability reciting in substance that the premises are leased and that neither Lessors nor the premises may be held liable for any claims of any kind arising out of Lessee's operations.

9. FIXTURES: Lessee shall have the right during the term of this lease or within sixty (60) days after the termination of this lease to remove all machinery, fixtures, and improvements placed or erected on the premises by the Lessee.

10. ASSIGNMENT OR SUBLEASING: Lessee shall not assign or sublease any part of the leased premises without the written consent of Lessors, which shall not unreasonably be withheld. Assignment of the lease shall terminate all liabilities of Lessee under the lease except those already accrued.

11. WORKMEN'S COMPENSATION INSURANCE: Lessee assumes full responsibility in case of accident to Lessee, its agent or any person employed on the leased premises, and agrees to hold Lessors harmless from any suits for injury or accident arising out of employment. Lessee shall apply for and maintain at all times workmen's compensation insurance pursuant to the laws of the State of Arizona and shall comply in all respects with any state or Federal laws pertaining to employment of persons in mining operations.

12. FORFEITURE: If Lessee violates any of the provisions of this lease or fails to perform any covenants made by it herein, Lessors may, at their option, forfeit this lease by giving notice to Lessee of their election to forfeit the lease, and by specifying in such notice the matters in which Lessee is in default; provided, however, that such forfeiture shall be inoperative if within thirty (30) days from the effective date of such notice, Lessee remedies the matters of default specified by Lessors.

13. NOTICE: Any written notices provided for herein shall be sent by registered mail, return receipt requested, and addressed as follows:

To Lessors: c/o Frank Salas, Sr.  
Oracle, Arizona

To Lessee: Heinrichs Geoexploration Company, Inc.  
P. O. Box 5671  
Tucson, Arizona 85703

Either party may change the name or address above by written notice to the other party. Notices shall be effective when deposited in the U. S. Mail.

14. SURRENDER: Lessee may surrender this lease at any time by giving Lessors thirty (30) days' notice, provided that either (1) the notice is given at least thirty (30) days before the end of the assessment year, or (2) the assessment work has been done and the proofs filed as required by law. Surrender shall terminate all obligations of Lessee except those that have already accrued.

15. ARBITRATION: All disputes between Lessors and Lessee regarding the interpretation of this lease or the performance

of the provisions of this lease shall be settled by arbitration. The arbitrator shall be John Splane. The arbitration hearing shall be held in Tucson, Arizona. The laws of Arizona shall apply to this clause and to the hearing.

16. TAXES: Lessee will pay all taxes levied upon the mine, or mine operation, including improvements, equipment, machinery or other facilities upon and used in connection with mining the premises.

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tions reasonably incident thereto.

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22. FORCE MAJEURE: If Lessee is prevented from carrying out the terms and provisions of this lease by acts of God, strikes, lockouts, fire, unusual delay in transportation, orders of the government or any duly constituted instrumentality thereof, unavoidable casualties or any causes beyond the control of the Lessee, then said Lessee shall be excused from complying with this Agreement for the period of such interruption, and the time within which said party may do any acts shall be extended by the period of such interruption.

23. INUREMENT: This is an entire agreement between the parties and all previous agreements, understandings, representations between the parties are hereby cancelled, terminated and of no further force or effect. This agreement shall be binding upon and inure to the benefit of the parties hereto, their personal representatives, successors, executors, heirs and assigns.

IN WITNESS WHEREOF, the parties hereto have set their hands  
this 6th day of May, 1968.

---

FRANK SALAS, SR.

---

FRANK SALAS, JR.

Manuel S. Chavez  
MANUEL S. CHAVEZ

Ellsworth L. Hawkins  
ELLSWORTH L. HAWKINS

Alfredo R. Martinez  
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Richard E. Martinez  
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Augustine S. Marquez  
AUGUSTINE S. MARQUEZ

Loretto F. Salas  
LORETTO F. SALAS

Thomas E. Salas  
THOMAS E. SALAS

LESSORS

HEINRICHS GEOEXPLORATION COMPANY, INC.

By \_\_\_\_\_

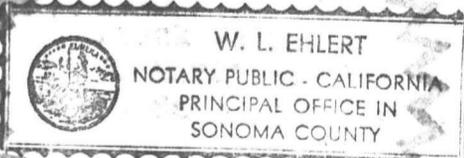
State of California }  
County of SONOMA } ss

— ACKNOWLEDGMENT—General —

On this 4th day of May A. D. 1968 before me,  
W. L. EHLERT a Notary Public in and for the said  
County and State, residing therein, duly commissioned and sworn, personally ap-  
peared AUGUSTINE S. MARQUEZ

known to me to be the person whose name HE subscribed to the  
within Instrument, and acknowledged to me that he executed the same.

In Witness Whereof, I have hereunto set my hand and affixed my official seal  
the day and year in this Certificate first above written.



W. L. Ehlert  
Notary Public in and for said County and State of California  
June 4, 1968

My Commission Expires \_\_\_\_\_

STATE OF ARIZONA     )  
                          )  
COUNTY OF PIMA     )   ss.

On this the \_\_\_\_\_ day of April, 1968, before me, the undersigned officer, personally appeared \_\_\_\_\_, who acknowledged himself to be the \_\_\_\_\_ of HEINRICH'S GEOEXPLORATION COMPANY, INC., a corporation, and that he, as such \_\_\_\_\_, being authorized so to do, executed the foregoing instrument for the purposes therein contained, by signing the name of the corporation by himself as \_\_\_\_\_.

In witness whereof I hereunto set my hand and official seal.

\_\_\_\_\_  
Notary Public

Spave Copy  
Final Draft  
No signature

MINING LEASE AND OPTION

THIS LEASE AND OPTION AGREEMENT made and entered into this \_\_\_\_\_ day of <sup>May</sup> April, 1968, by and between FRANK SALAS, SR., FRANK SALAS, JR., MANUEL S. CHAVEZ, ELLSWORTH L. HAWKINS, ALFREDO R. MARTINEZ, RICHARD E. MARTINEZ, AUGUSTINE S. MARQUEZ, LORETTO F. SALAS and THOMAS E. SALAS, herein referred to as Lessors, and HEINRICHS GEOEXPLORATION COMPANY, INC., an Arizona corporation, herein referred to as Lessee;

W I T N E S S E T H:

WHEREAS, the Lessors are the owners of certain unpatented lode mining claims in the Ripsey Mining District, Pinal County, Arizona, more particularly described in Annex A, which is attached hereto and made a part of this Lease by reference; and

WHEREAS, Lessee is desirous of leasing said claims with an option to purchase;

IT IS THEREFORE MUTUALLY AGREED as follows:

1. GRANTING: The Lessors, in consideration of the covenants and agreements hereinafter expressed do hereby grant to Lessee those certain unpatented lode mining claims described in Annex A hereinafter referred to as the claims.

2. TERM: This lease shall be for a period of 24 months from its effective date unless sooner terminated under any of the provisions herein contained or renewed and extended as outlined herein.

3. EXPLORATION PROGRAM: For and in consideration of the granting of this Lease, Lessee does hereby agree to undertake an' exploration program on the property and to commence forthwith a

program of Geology, Geophysics and Geochemistry, or other type of engineering tending to develop the property. Forthwith shall be understood to mean to be within six (6) weeks from the date of the execution of this agreement. In the event of the termination or forfeiture of this Lease, the Lessee shall furnish to Lessors within six (6) weeks copies of all maps, surveys, exploratory drilling logs, assay reports, and all other factual data and interpretation reports prepared from or connected with the claims.

4. PAYMENTS: During the term of this Lease, the Lessee is granted the right to mine and dispose of any and all ores, minerals or concentrates, owned by Lessee or Lessors, within the area of this Agreement, but shall pay to Lessors, after deduction of expenses of mining and transportation to the smelter or other reduction works, a royalty on all such ores, minerals or concentrates, of five percent (5%) of the net smelter or mill returns, payments of royalty to Lessors to be made within ten (10) days after settlement received by Lessee. All such amounts or royalty paid to Lessors shall apply on, and be deducted from the purchase price specified in Section 5 in the event Lessee elects to purchase all or any portion of the claims.

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22. FORCE MAJEURE: If Lessee is prevented from carrying out the terms and provisions of this lease by acts of God, strikes, lockouts, fire, unusual delay in transportation, orders of the government or any duly constituted instrumentality thereof, unavoidable casualties or any causes beyond the control of the Lessee, then said Lessee shall be excused from complying with this Agreement for the period of such interruption, and the time within which said party may do any acts shall be extended by the period of such interruption.

23. INUREMENT: This is an entire agreement between the parties and all previous agreements, understandings, representations between the parties are hereby cancelled, terminated and of no further force or effect. This agreement shall be binding upon and inure to the benefit of the parties hereto, their personal representatives, successors, executors, heirs and assigns.

IN WITNESS WHEREOF, the parties hereto have set their hands this \_\_\_\_\_ day of April, 1968.

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FRANK SALAS, SR.

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FRANK SALAS, JR.

\_\_\_\_\_  
MANUEL S. CHAVEZ

\_\_\_\_\_  
ELLSWORTH L. HAWKINS

\_\_\_\_\_  
ALFREDO R. MARTINEZ

\_\_\_\_\_  
RICHARD E. MARTINEZ

\_\_\_\_\_  
AUGUSTINE S. MARQUEZ

\_\_\_\_\_  
LORETTO F. SALAS

\_\_\_\_\_  
THOMAS E. SALAS

LESSORS

HEINRICHS GEOEXPLORATION COMPANY, INC.

By \_\_\_\_\_

LESSEE

STATE OF ARIZONA     )  
                                  ) ss,  
COUNTY OF             )

The foregoing Mining Lease and Option was acknowledged before me this \_\_\_\_\_ day of April, 1968, by Frank Salas, Sr., Frank Salas, Jr., Manuel S. Chavez, Ellsworth L. Hawkins, Alfredo R. Martinez, Richard E. Martinez, Augustine S. Marquez, Loretto F. Salas and Thomas E. Salas.

\_\_\_\_\_  
Notary Public

My Commission Expires:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

STATE OF ARIZONA     )  
                          ) ss.  
COUNTY OF PIMA     )

On this the \_\_\_\_\_ day of April, 1968, before me, the undersigned officer, personally appeared \_\_\_\_\_, who acknowledged himself to be the \_\_\_\_\_ of HEINRICH'S GEOEXPLORATION COMPANY, INC., a corporation, and that he, as such \_\_\_\_\_, being authorized so to do, executed the foregoing instrument for the purposes therein contained, by signing the name of the corporation by himself as \_\_\_\_\_.

In witness whereof I hereunto set my hand and official seal.

\_\_\_\_\_  
Notary Public

ANNEX A

DESCRIPTION OF PROPERTY

1. The first group consists of forty-five (45) claims known as the West Ripseys 1 through 45, located in Sections 10, 11, 14 and 15, Township 5 South, Range 13 East, G&SRB&M, Pinal County, Arizona, and of record in the office of the County Recorder, Pinal County, Arizona.

2. The second group consists of forty-six (46) claims known as the Blue Boys 1 through 46, situated in Sections 13, 14, 22, 23 and 24, Township 5 South, Range 13 East, G&SRB&M, Pinal County, Arizona, and of record in the office of the County Recorder, Pinal County, Arizona.

3. The third group consists of fourteen (14) claims known as the Auroras 1 through 14, situated in Sections 10 and 15, Township 5 South, Range 13 East, G&SRB&M, Pinal County, Arizona and of record in the office of the County Recorder, Pinal County, Arizona.

It being understood and agreed insofar as the Lessors are concerned, that Group One consists of seven-fifteenths (7/15ths) of the whole, Group Two six-fifteenths (6/15ths) and Group Three two-fifteenths (2/15ths) of the claims.



~~Bad-Rip (Seochan)~~ *A*  
August 12, 1968

From: F. A. Seward, Jr.  
Memorandum for File

Re: Rip Claim Group  
Client: Badgett-~~Geox~~  
Date: 6 August 1968

*A preliminary*  
~~The proposed~~ geochemical survey was initiated on 5 August 1968 with preparation of materials for the survey, travel to the area with a general reconnaissance of the Ripsey Wash Area.

The ~~survey~~ *ed* ~~survey~~ consist of two phases. The primary phase ~~was~~ *ed* evaluated the immediate area of the claim group and the induced polarization anomaly previously surveyed. The purpose of this investigation ~~was~~ *ed* to aid in the selection of a second drill site. The second phase of the ~~survey~~ *ed* survey, which would normally precede the more detailed surveys is in itself a two step reconnaissance and semi-detailed stream sediment survey of the Ripsey Wash and surrounding areas to evaluate the over all potential of approximately 16 square miles. The detailed phase of the survey ~~was~~ *ed* consist of:

1. ~~The~~ *ed* Sampling of sites ~~along~~ *ed* previously surveyed at stations along the previously surveyed I.P. lines, and some top of ridge and base of slope samples as well as road samples as time permitted.
2. The semi detailed survey of the Ripsey Wash basin area ~~was~~ *ed* included sampling of stream sediments of ~~the~~ *ed* major drainages into Ripsey wash above their intersection with Ripsey Wash. This portion of the survey should accurately *help* define the mineral potential of each drainage of less than one half square mile in area in the Ripsey Wash Basin.

The reconnaissance stream sediment sampling program ~~was~~ *ed* included the ~~major~~ *ed* sampling of the major ~~drainages~~ *ed* surrounding Ripsey Wash Basin but ~~not~~ *ed* included in Ripsey Wash. This survey should effectively define the potential of areas outside Ripsey Wash Basin.

The soil samples ~~will be~~ *ed* analyzed by Atomic Absorption Spectrometer, ~~photometric means~~ *ed* and the results plotted on the 1" = 500 ft. topographic map previously prepared for the claim staking and Induced Polarization Surveys by expansion of the 7 1/2 min. series U.S.G.S. Topographic Map.

The heavy ~~metals~~ *ed* fraction of the stream sediment samples collected ~~were~~ *ed* separated mechanically and analyzed by emission spectrographic means. The light sediment fraction ~~was~~ *ed* also ~~was~~ *ed* collected from the stream sediment samples and analyzed by Atomic Absorption. ~~methods~~ *ed*. These results will be plotted on the 1 : 24,000 overlay of the U.S.G.S. 7 1/2 min. maps.

The following ~~data~~ constitutes a log of the activities for 6 August 1968.

Memorandum for File:  
Re: Ripsey Geochemical Survey  
Rip Claim Group.  
Client: Badgett ~~Geochem.~~

Left Florence 0715 a.m. arrived turn-off 0805 hours, arrived drill site 0825, <sup>from det.</sup> via road to mine where they get water for the drill followed the road to the south edge of Section 14 thence west on section line to the SE cor. Sec. 14.

We then returned along the same road locating stations on lines 2, 7, and Line 6 where they crossed the road respectively. We then proceeded back to the gate where we had parked the vehicle in the morning and drove down the power-line road some 2 miles into Ripsey Wash taking samples at various points, <sup>R.P.</sup> preselected in the washes. We ~~xxxxx~~ turned south in Ripsey Wash and continued sampling to the head of Ripsey Wash. We then went back to where we had first intersected Ripsey Wash and proceeded north, sampling as we went. In all, ten samples were taken, not entirely in accordance with the original plans. The approach of a severe thunder shower about 1520 caused us to leave the wash. It is considered that the heavy sediment samples selected will be adequately representative of the Ripsey Wash area. However, if time permits after the soil sample survey over the Ripsey claim group, further samples will be taken in the wash.

Items of particular ~~interest~~ interest noted during the course of the survey are the intensely mineralized hills north of Sample 5 in Ripsey Wash which coincides approximately with Station 4 on Line 3 (electrode #4) about 1000 ft. northwest of the SE cor. of Sec. 11 and malachite stain ~~flats~~ (?) further up Ripsey Wash north of where sample No. RHM7 was taken. RHM 10 was ~~the~~ the furthest north sample taken in Ripsey wash and it was taken about 1500 ft. southwest of NE cor. Sec. 2. The storm was approaching and we elected to proceed north on Ripsey Wash at least six or seven miles to its intersection with the Kelvin-Florence road. We returned to where we had cached the core from the drill hole on the pipe line road and proceeded to Florence arriving about 1630.

Good Morning, Jean!

This will be the daily log for 7 August 1968

Memorandum for File:

Re: Ripsey Claim Group

Client: Badgett

Left Florence 0800 mileage 12634.

I suggest we discuss with Chris whether ~~the heavy mineral samples correction~~, the stream sediment samples be submitted to Allen for mechanical separation of the heavy mineral fraction or whether we have to do it ourselves. If he decides we should send them out to Allen, I will end up this log to direct a memo to him.

Memorandum to Phil Allen, metallurgical consultant. Tucson

Date: 7 August 1968

We require a heavy mineral concentration of the heavy mineral fraction of the stream sediment samples. It is important to note that we do not require an accurate measurement or determination of the total heavy mineral content in the samples. However a rough estimate of this content might be interesting or useful. We do require a clean representative sample of the heavy mineral fraction. The samples that contain all minerals having a specific gravity of ~~3.0~~. (Check specific gravity with Chris.)

~~Trying to drive over these washes after last night's rain is a little tough...and dictate at the same time!~~

We also require a representative sample of the light mineral fraction and that fraction should be devoid of any heavy mineral content. The size of the sample need not exceed one or two grams in any case. Better check that figure with Chris too. (10 grams?)

End of Memo. Can be signed Heinrichs Geox, F. A. Seward, Jr.

Regarding disposition of the heavy mineral fraction of the stream sediment samples mentioned in the foregoing memo, it is recommended that a ~~portion~~ portion at least be given to Hawley and Hawley for spectrographic analysis by emission spectrograph.

The light sediment fractions should be sent somewhere. ~~xx~~ Hawley and Hawley is probably all right for atomic absorption analysis.  
*send to Rock Mountain*

Arrived at the intersection of the claim road, Kelvin road 0845 mileage 12656. Arrived at drill site 0915, mileage 12660.

Instructed Rusty and John in the ~~proceedures~~ proceedings for soil sampling and sent them out to sample the northwest end of Line 4 and they were supposed to come back in on the southwest end of Line No. 5. I proceeded southeast on Line #4 from the drill site, sampling every 500 ft. at each I.P. station, also picked up a few odd samples at other locations including one at the end-center of claims 41 and 42. Crossed over the hill to station 3,000 SE on Line #5 and proceeded to sample back to the center of the line.

I missed station .5 or 500 SE. Returned to the vehicle, arriving about 1430, Rusty and John showed up a few minutes later. They hadn't been too successful in reading the map and were only able to find seven stations on Line 4. They ~~xxxx~~ returned to Florence to pick up the stream sediment samples collected on 6 August to take to Tucson along with the soil samples collected this date. I proceeded by vehicle to the southeast corner Sec. 14 arriving at 1530 to sample at 1,000 ft. intervals (or 1/10 mile intervals on the speedometer) along the road from the above mentioned section corner.

The traverse will proceed west along the section line to the south ~~1/4~~ corner of Sec. 14, thence north along the road thru the SW Cor. Sec. 11 and as far as we can get. Samples on this traverse will be called the "A" traverse and the samples will be numbered consecutively from 1 thru whatever we get.

Samples taken earlier today on the I.P. lines were ~~xxxxxxx~~ marked according to the location on the line, i.e. samples taken on Line #4 at station 1,000 SE was labeled 4-1.0 SE. For future reference, some of the stations were very difficult to find because the yellow flagging does not show up very well. Orange is by far the best color observable from the greatest distance. I would suggest that in the future, all survey lines are flagged with orange flagging, and a secondary color such as yellow, red, blue, etc. used to identify the type of survey, whether it be I.P., geochem, claim staking or whatever. I noted that some of the aluminum tags on the stakes designating the I.P. stations had come off (loose) and some had disappeared. I repaired what I was able to. Note that in each case, the samples taken this morning on the southeast end of Lines 4 and 5 ~~in each case the~~ samples were definitely residual soil or actually decomposed rock in place. This is not the case in samples taken so far on traverse A-1. There is some question as to how far the material may have been transported, although it cannot have been any great ~~distance~~ distance. Sample A-3 is definitely residual.

Traverse A was completed with sample A-20 which was taken at the wooden gate on the south section line of Section 4 which is also the north section line of Sec. 9 and probably is fairly close to the 1/4 corner. Heavy mineral samples ~~x~~ R-HM 10 in Sec. 9 and RHM 11 in the wash in Sec. 9 and RHM 12 which is about 1,000 ft. north of Station A-20 in Sec. 4.

This ended the day's work at 1820, we are heading for Florence.

This ends the daily log for 7 August 1968.

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And a late Good Morning to you, Jean!

Daily log for 8 August 68.

Memorandum for file

Re: Geochemical Survey  
Ripsey Claim Group

Client, Badgett ~~Geochem~~

Tried to find sample sacks this morning in Florence, was successful in locating only 13.

Rusty and John are on the survey today. They are ~~at~~ <sup>to</sup> ~~xxxx~~ attempt to locate stations along Line #6. Left Motel 0930, mileage 12711.

Arrived at the intersection of property road with the Kelvin road at 1015. Note that there is a brand new drill rig located northwest of the Kelvin road, northwest, actually of this intersection, about 500 ft. This must have been located yesterday afternoon or early this morning. I didn't see it on the way out last night, but it could have been there.

Traverse B commences at the intersection of a side road with the road to the drill site about 200 ft. west of station ~~xxxx~~ A-17 which is at the 1/4 cor. between sec. 9 and 10. Station B-1 is at this intersection. We will proceed southeast from this point. These are unquestionably the ~~xxxxxx~~ residual soils, topography notwithstanding. Any deviation from this will be noted.

After proceeding south along approximately the west side of Sec. 15, almost to the section ~~xx~~ corner, then turned east. Upon arriving at the stock watering sheds and gate, turned northeast to try to find the center of Line #1. Came across a stake, not as indicated on the map but it was definitely GEOEX stake marked ~~xxxx~~ S368 on one side and on the other side, garbled. I guess it is Line 1, spread 1, however it is not as it is indicated on the map.

Note that there is a sharp change in soil color between sample B-16 and B-17. For the record, I checked out as best I could the location of Line #1 and to the best of my ability to determine it it is mislocated on the map. That soil change color, incidently, is from light white to gray to rather dark brown.

Regarding 19-20, I am enroute to Florence, I have been very very stuck. I have completed soil sample traverse B and was working up the wash to try to take heavy mineral samples - stream sediment samples No. 16 and 17. It was about 1630 and I successfully negotiated the wash crossing it in several places including one place where it was running with no difficulty whatsoever. I was looking for the intersection of two washed