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Key Group

SUMMARY REPORT KETSA RIVER AREA

- BY -

B. I. F. BREakey

for Conwest Exploration Co Ltd.

SEPTEMBER, 1954

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INTRODUCTION:

Upon completion of the examination of the Key Group of 37 claims and the subsequent optioning of the same group, it was decided to obtain additional ground in the area.

A crew was dispatched to the area on September 5th and by September 20th the following groups were obtained:

<u>Name of Group</u>	<u>No. of Claims</u>	<u>Date Staked</u>
Penny Group	22	(9-8) Sept.6 - (7-22) Sept.7, 1954
Strike "	16	Sept.16 - Sept.29, 1954
Fury "	24	Sept. 9, 1954
Willa "	6	Sept.10, 1954
Two " (Campsite Claims)	6	(2) Sept.8 - (2) Sept.17,1954
Peel "	6	
Penguin "	4	
Star "	8	
Fly "	12	Sept. 10, 1954
Total	<u>104</u>	
Plus Key Claims	<u>37</u>	
GRAND TOTAL	<u>141</u>	

DESCRIPTION OF SHOWINGS ON GROUPS AND WORK ACCOMPLISHED

Claim - Key No. 3

Trenching was started on the main showing on Key No. 3 September 19th. This work revealed considerable massive galena float among boulders of vein breccia. The boulders appeared to fit when exposed but as work continued it became apparent the whole vein mass had slumped. Work was continued along the hillside for 18 ft. and into the slope for a horizontal distance of 28 ft. until a vertical face of 12 ft. to 13 ft. was reached. The boulders of galena and vein breccia were covered with small fragments of a dark quartzite talus 4 ft. to 5 ft. thick. This moved into the cut continuously and created a hazard. A heavy snowfall

and high winds added to the difficulties. However, a trail of float was found as the cut was advanced and the trace of this is shown on sketch "A".

Samples of the float were taken.

	<u>Pb.</u>	<u>Ag.</u>	<u>Au.</u>	<u>Cobalt</u>
Sample No. 19 was taken in the best exposed face of Pit No. 1	<u>65.65%</u>	<u>78.60 oz.</u>	<u>Nil</u>	<u>Nil</u>
Sample No. 18 Massive pyrite from Pit No. 1 Check assay on No. 18	----	<u>(102.00 oz.)</u> <u>(101.20 oz.)</u>	<u>Nil</u>	<u>Nil</u>
Sample No. 20 was taken from a pile of massive galena float placed to one side as work progressed and is "grab" representative of the whole.	<u>61.99%</u>	<u>86.60 oz.</u>	<u>Nil</u>	<u>Nil</u>

Moving talus, continued heavy snow fall, high winds and winter-like conditions brought this work to a close on September 24th.

About 130 ft. west of this opening and about the same elevation, another pit was put down seven feet into the talus. A few pieces of galena float were found but nothing similar to rock in place was noted. This too, was abandoned. Sample No. 21 ran as follows:

<u>Pb.</u>	<u>Ag.</u>	<u>Au.</u>
<u>82.62%</u>	<u>126.50 oz.</u>	<u>Nil</u>

Claim - Penny No. 22

About 200 ft. South-West and 240 ft. East of Post No. 1 of Penny No. 22 on Claim Penny No. 22 in a creek, a 40-inch mineralized zone occurs. Narrow bands of chalcopyrite and pyrite are inter-bedded with a quartz carbonate breccia carrying some pyrite.

The zone strikes 315° and dips vertically to steeply East. The hanging wall consists of a limestone breccia above which is a thick (200 ft.?) band of graphite schist. The footwall consists of graphitic schist. A chip sample was taken across the 40-inch mineralized section.

	<u>Cu.</u>	<u>Ag.</u>	<u>Au.</u>
Sample No. 22	<u>1.62%</u>	<u>2.38 oz.</u>	<u>Nil</u>

A piece of float 200 ft. below sample No. 22 was found. This consisted of fairly massive pyrite and arsenopyrite in a carbonate breccia

Claim - Penny No. 22 (Cont'd)

Sample No. 23

<u>Cu.</u>	<u>Au.</u>	<u>Ag.</u>
<u>0.2%</u>	<u>Trace</u>	<u>0.44 oz.</u>

Some float similar to the above was found further down the same creek.

Claim - Peel No. 3

In the approximate centre of Peel No. 3 an area of frost-heaved float was found in a 50 ft. radius. The float consisted of massive pyrrhotite with disseminated chalcopyrite and bornite. Fragments of rocks in the area indicate the mineralization could be in quartzite.

Sample No. 24

<u>Cu.</u>	<u>Au.</u>	<u>Ag.</u>	<u>Ni</u>
<u>0.44%</u>	<u>0.01 oz.</u>	<u>0.28 oz.</u>	<u>Nil</u>

Claim - Fury No. 15

Near the East boundary and almost in the centre of claim Fury No. 15, frost-heaved mineralized float identical to that found on Peel No. 3 was found along a length of 100 ft. and over considerable width (10 ft. or more). It consisted of massive pyrrhotite and disseminated chalcopyrite and bornite.

Sample No. 25

<u>Cu.</u>	<u>Au.</u>	<u>Ag.</u>	<u>Ni.</u>
<u>0.50%</u>	<u>Trace</u>	<u>0.16 oz.</u>	<u>Nil</u>

Claim - Peel No. 2

Mineralized float consisting of massive pyrrhotite and a slight amount of disseminated chalcopyrite was found in the creek which lies inside and parallels the north boundary of Peels' No. 2, 4 and 6. Sample No. 51 was taken from some of the float:

Sample No. 51

<u>Cu.</u>	<u>Au.</u>	<u>Ag.</u>
<u>1.07%</u>	<u>0.04 oz.</u>	<u>3.08 oz.</u>

In the extreme South-East corner of this claim a 15-inch vein of heavily oxidized material (Boulangerite), with some narrow one-inch stringers of massive, extremely fine-grained galena and quartz stringers with fine pyrite, was found. The vein dips vertically and strikes South-West.

Sample No. 52

<u>Pb.</u>	<u>Au.</u>	<u>Ag.</u>
<u>15.86%</u>	<u>0.085 oz.</u>	<u>34.80 oz.</u>

Claim - Strike No. 12

On the location line between Strike No. 11 and Strike No. 12 and 300 ft. South-East of Post No. 2 there is a patchy oxidized mineralized zone 20 ft. wide consisting of pyrrhotite, arsenopyrite and a slight amount of chalcopyrite in quartzite. No strike or dip could be ascertained.

	<u>Cu.</u>	<u>Au.</u>	<u>Ag.</u>
Sample No. 53	<u>0.26%</u>	<u>Tr.</u>	<u>Tr.</u>
Sample No. 15	<u>0.29%</u>	<u>Tr.</u>	<u>Tr.</u>

Claim - Key No. 13 (Showings all in or near 2nd West Fork Creek)

About 250 ft. West of Post No. 2 of Key No. 13 underneath the water in the 2nd West Fork Creek a mineralized oxidized conglomerate (cemented limonite) was noted for a length of 10 ft.: Width unknown. Strike E-W? Dip - South 20°. Massive pyrite with some lead oxide was present.

	<u>Pb.</u>	<u>Au.</u>	<u>Ag.</u>
Sample No. 54	<u>0.04%</u>	<u>0.035 oz.</u>	<u>0.50 oz.</u>

Showing "E" as reported by Smitheringale on Claim Key No. 13 was cleaned out and sampled again. This showing is 750 ft. West of Post No. 2 of Key No. 13. This is a heavily oxidized vein 42 inches wide containing pyrite, arsenopyrite and galena in quartz. Strike 315°. Dip vertical.

	<u>Pb.</u>	<u>Au.</u>	<u>Ag.</u>
Sample No. 56	<u>0.18%</u>	<u>Tr.</u>	<u>0.26 oz.</u>
Smitheringale's Sample No. 1513	<u>8.5%</u>	<u>0.16 oz.</u>	<u>2.8 oz.</u>

Approximately 650 ft. West of Post No. 2 of Key No. 13 and on the North side of the creek canyon, there is a three foot band of heavily oxidized pyrite and arsenopyrite. ?Strike - 315°. Dip vertical.

	<u>Au.</u>	<u>Ag.</u>
Sample No. 57	<u>0.02 oz.</u>	<u>Tr.</u>

Claim - Key No. 16 - (Smitheringale's "F" Zone) - Sample No. 1514

Fifty feet East of Post No. 1 of Key No. 16 on the South wall of the canyon there is a 24-inch heavily oxidized zone. Strike 170°, dip vertical. A few narrow (1 inch) stringers of massive fine galena with pyrite were observed in a quartz-carbonate gangue.

	<u>Pb.</u>	<u>Au.</u>	<u>Ag.</u>	<u>Co.</u>
Sample No. 55	<u>5.83%</u>	<u>0.03 oz.</u>	<u>3.84 oz.</u>	<u>Nil</u>
Smitheringale's Sample No. 1514	<u>5.2%</u>	<u>0.20 oz.</u>	<u>3.8 oz.</u>	<u>--</u>

Willa Group

This group lies approximately 2 miles South and a little East of the South-East corner of the Penguin Group (staked by Miller). As this group is at an elevation of 5,500 ft., snow prevented detailed examination. The following samples were taken on the group and from float in the creeks.

	<u>Cu.</u>	<u>Au.</u>	<u>Ag.</u>	<u>Ni.</u>
Sample No. 11 - Float from Willa No.2 massive pyrrhotite with a slight amount of chalcopyrite	<u>1.29%</u>	<u>0.01 oz.</u>	<u>0.98 oz.</u>	<u>Nil</u>
Sample No. 12 Float from creek which parallels and lies East of Willa Group, 2,000 ft. chalcopyrite blebs in a quartz-feldspar matrix.	<u>7.15%</u>	<u>Tr.</u>	<u>2.36 oz.</u>	<u>--</u>
Sample No. 13 Float - 2,700 ft. West of 1st North Fork on 2nd West Fork. Massive pyrrhotite with a slight amount of chalcopyrite	<u>0.29%</u>	<u>Nil</u>	<u>Tr.</u>	<u>Nil</u>
Sample No. 14 From Willa No.2 claim. A heavily mineralized face 75 ft. wide by 25 ft. high. 200 ft. North of Post No.2. Massive arsenopyrite splotches in a highly silicious matrix. Specks of chalcopyrite	<u>0.23%</u>	<u>0.04oz.</u>	<u>Tr.</u>	<u>--</u>

	<u>Cu.</u>	<u>Au.</u>	<u>Ag.</u>	<u>Ni.</u>
Sample No. 16 - From Willa No. 2 claim near No. 2 post, Massive arsenopyrite in quartz.	--	0.02 oz.	0.10 oz.	--
Sample No. 17 - Willa No. 2 - massive arsenopyrite with some (?) tetrahedrite with shaly inclusions	0.16%	0.04 oz.	0.08 oz.	--

Fly Group

This group was not examined but some pyrite mineralization in float is reported by the stakers from claim Fly No. 4. (No samples).

SUMMARY

In addition to the showings reported by Dr. Smitheringale on the Key group, two (2) additional mineralized zones in place are noted above. (Samples 54 and 57) both on claim Key No. 13. Ignoring float samples and taking into account only those showings which are in place, six (6) additional finds were made on the claims staked subsequently to the Key group. This makes a total of eight (8) new zones to be investigated. This is rather remarkable owing to the fact that no prospecting was done prior to staking.

GENERAL COMMENT ON THE AREA

The presence of mineralization over such a widespread area is an encouraging feature of these groups. No doubt many of these showings will be of too low grade. Considerable expenditure will be required to test all the showings and map the geology of the area.

Hudson Bay Mining and Smelting's old camp can be seen at the mouth of the 2nd West Fork of the Ketsa River. No doubt their prospectors found some of the zones outlined above. However, no work of any kind was observed where traverses were made with the exception of a few pits on the Galena group staked by Hoey.

RECOMMENDATIONS

A detailed programme for 1955 along the following lines is suggested:

- A- (1) Purchase of complete aerial photos of the area.  
(Blow up some to 400 ft. to one inch).
- (2) Trench and sample all showings on Key and Penny groups.
- (3) Trench and sample all showings on Fury, Peel, Willa, Strike and Penguin groups.
- (4) Prospect all claims.
- (5) Prospect area around claims staked.
- (6) Survey all claims.

-B- In order to carry out the above work the following crews are suggested:

- A chief geologist and draftsman to co-ordinate all work
  - A surveyor and helper for all groups 2 men
  - Fury, Peel, Penguin, Strike and Willa groups:
    - 6 pick and shovel men
    - 1 geologist student
    - 1 cook 8 men
  - Key, Star and Penny groups:
    - 6 pick and shovel men
    - 1 geologist student
    - 1 cook 8 men
  - Two parties of two prospectors each 4 men
  - One wrangler and four horses 1 man
- 23 men

Breakdown of costs

Payroll (23 men)	\$ 33,200.00
Food	8,000.00
Air Transport	4,500.00
Supplies - Hardware, truck, powder	1,000.00
Four pack horses	1,000.00
Assaying - 300 @ \$10.00	3,000.00
	<u>\$ 50,700.00</u>

Say .....\$55,000.00

Respectfully submitted,

Toronto, Ontario.  
November 17, 1954.

B. I. F. Breakey, Geologist  
CONWEST EXPLORATION COMPANY LIMITED.

APPENDIX "A"

Equipment at Present Camp

- 1 - 10 x 12 Store cabin for supplies
- 2 - 10 x 12 Tent frames
- 1 - 10 x 24 Cookery frame (2 - 10 x 12 tents frt.)
- 1 - Good cook stove - good oven
- 4 - Small heaters, complete with pipe and elbows
- 2 - Gas lanterns, Coleman (4 funnels)
- 2 - Gas stoves, Coleman
- 1 - McCulloch Power Saw plus 6 gals. red gas for same
- 2 - 2 gal. gas cans (full of Naptha)
- 4 - gals. Naphtha for lamps and stoves
- 1 - 6 x 8 tarp
- 1 - Swede saw
- 3 - Axes, small
- 1 - Case 40% Forcrite, Fuse Caps (in cabin)
- 6 - shovels
- 2 - Picks
- 4 - Pieces Drill Steel
- 1 - Striking Hammer
- 2 - Jerry cans with flexible spouts. Full of gas for saw.

Approximately one half mile south of the present camp there is a flat area cleared for 1,200 ft. North and South with a 500 ft. approach at each end where a Beaver aircraft could land on skis. A line of spruce trees marks the airstrip on the West side. The strip is on <sup>east?</sup> each side of the Ketsa River. Work on the main Key showings will be delayed as showings are on a north slope. It will probably be June 15th before the snow leaves this slope.

The six townsite claims are staked North and South in a line along the Ketsa River valley. A good stand of spruce is located on the two North claims.

*Sh. goes with the  
Baker report.*

October 14th, 1954.

BELL-WHITE ANALYTICAL LABORATORIES, LTD.

ANALYSES OF SAMPLES  
KETSA RIVER AREA  
YUKON TERRITORY

<u>Sample No.</u>	<u>Oz. Au Ton</u>	<u>Oz. Ag Ton</u>	<u>% Cu</u>	<u>% Co</u>	<u>% Pb</u>	<u>% Ni</u>
16	.02	.10	-	-	-	-
17	.04	.08	.16	-	-	-
18	Nil	102.00	-	Nil	-	-
19	Nil	78.60	-	-	65.65	-
20	Nil	86.60	-	-	61.99	-
21	Nil	126.50	-	-	82.62	-
22	Nil	2.38	1.62	-	-	-
23	Trace	.44	.21	-	-	-
24	.01	.28	.44	-	-	Nil
25	Trace	.16	.50	-	-	Nil
51	.04	3.08	1.07	-	-	-
52	.085	34.80	-	-	15.86	-
53	Trace	Trace	.26	-	-	-
54	.035	.50	-	-	.04	-
55	.03	3.84	-	Nil	5.83	-
56	Trace	.26	-	-	.18	-
57	.02	Trace	-	-	-	-

*Sample 57 = >>*

J. H. White, Assayer.

Line NW To Post #1 → KRY #3 Claims

El. 5,900 ±

Down → Mountain Slope

ORIGINAL PIT

Sample # 20 Pb. Ag. Au. 61.95 86.60 nil



Loose Carbonated Quartzite

Trail of

Sketch of Main Showing Claim KEY 3 indicating trace of Massive Galena Fluct

Scale: 1/4" = 1 ft

Massive Pyrite

Sample # 19

Pb Ag Au 65.65 78.60 nil

Broken carbonated quartzite Not in place, but not too far removed from origin

Edge of Talus



Strike & Dip of Quartzite. Bed 60' above Pit



670' N.W. To Post #1 KEY #3

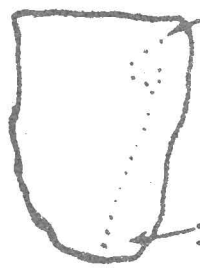
Sample #21  Pit #2  
Pb. Ag. Au. 7' Deep Talus  
0.21 12.650 nil

SKETCH of PITS  
KEY No. 3

Scale 1 in. = 20 ft.

Oct. 1954.

Down Mountain Slope

  
Sample #20  
Pb. Ag. Au.  
61.37 85.60 nil  
← Trace of Galena Float  
Sample #19  
Pb. Ag. Au.  
65.65 70.60 nil