REPORT ON THE GEOPHYSICS, GEOCHEMISTRY AND GEOLOGY OF THE NORTH SECTION OF AH 13-28 CLAIMS

105-H-9

By: K. Kirkland Sept. 1968

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REPORT ON THE GEOCHEMISTRY, GEOPHYSICS AND GEOLOGY OF THE NORTH SECTION OF THE AH 13-28 MINERAL CLAIMS

Longitude 136° 04'W.
Latitude 61° 43'N.

N.T.S. 115-H-9

July 31 - August 8, 1968

By

Kenneth J. Kirkland

ATLAS EXPLORATIONS LIMITED

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REPORT ON THE GEOCHEMISTRY, GEOPHYSICS AND GEOLOGY OF THE NORTH SECTION OF THE AH 13-28 MINERAL CLAIMS

INTRODUCTION

During the summer of 1967 geological and geochemical surveys were carried out on the AH 13-28 mineral claims by geologist R. Vogwill and three soil samplers for Atlas Explorations Limited. A plot of the geochemical values for copper showed high values, and contours unclosed to the north, partially off the claim block. The purpose of the 1968 survey was to determine the extent of the geochemical anomaly.

A three man camp was established near boundary of AH 27 and AH 25 on July 31, 1968. Working from this camp, a grid was established to cover the area of interest. A baseline 3,600 ft. long running E-W was established at a position which marked the northern margin of the 1967 survey. Thirteen grid lines running N-S were spaced every 300 ft. along the baseline. These lines all extended north from the baseline with the exception of lines 1 and 2 which overlapped approximately 1000 ft. onto the old grid for purpose of a check on previous results.

The grid was marked out using Silva Ranger compass and 100 ft. rope. Flags were marked out at 100 ft. intervals to indicate geochem and geophysical stations. The attempt was made to compensate for topography when setting up the grid.

It was intended that all cross lines be 3000 ft. long but lines 1 and 2 were extended 1000 ft. onto the old grid and several of the lines were shortened due to the presence of lakes and swamps, so lines vary from 2000 ft. to 4000 ft. in length.

LOCATION AND ACCESS

The AH 13-28 Mineral Claims are located 78 air miles N-NW of Whitehorse, on claim sheet 115-H-9. Longitude 136° 04', latitude 61° 43'N. During summer months access to the property is by wheeled vehicle to the Twin Lakes area, then by helicopter approximately 8 miles from Twin Lakes to the property. Twin Lakes is also suitable for float-equipped aircraft.

GEOLOGY

Archer and Cathro consider the area to be "structurally favourable" as Mesozoic volcanic rocks border a diorite intrusive.

Regional geology was done by A. Reinsbakken and R. Chaplin in the summer of 1966, and in 1967 Atlas geologist, R. Vogwill and three soil samplers worked on the claim block for approximately one week.

During the 1968 survey, geological traverses were made along grid lines in order to tie in geological information as closely as possible with geochemical and geophysical station locations.

The major lithologies noted on the property were:

Diorite Intrusive

Coarse grained, green-grey hornblende diorite, weathered colour buff to reddish-buff, minor rust stain but no mineralization observed.

The diorite appears as a long, tongue-like body trending northeasterly across the south-central and east-central part of the grid. Extension of the body to the north-east is uncertain due to overburden cover. Extension to the south was mapped by Vogwill in 1967.

Andesite

Fine grained, grey to green, fledspar-augite andesite porphyry. The character of the rock is highly variable and could indicate this is not one, but several flows. Feldspar phenocrysts up to 1/8" in size comprise 5-15% of the andesite. Augite phenocrysts up to 1/8" comprise 2-5%. The andesite contains minor disseminated magnetite, hematite, pyrite and very minor chalcopyrite. Weathered colour is brown to grey-brown. Very minor irregular calcite and quartz veining noted. In a few places the andesite contains 5-10% amygdules filled with quartz, epidote, and a reddish-coloured zeolite, but these amygdaloidal.

The andesite occupies the northern 2/3 of the grid, but the contact with the agglomerate is indefinite (possibly the two are interbedded or the agglomerate is just a fairly local phase of the andesite).

Volcanic Agglomerate

Light grey to buff weathering with green-grey andesite matrix, up to 50% rounded porphyritic volcanic fragments ranging from ¼" to 12" in size, in some places the fragments are much more angular, forming a breccia texture. There seems to be a complete range from fragment-rich agglomerate right through to the andesite, also the lack of a definite contact between andesite and agglomerate may suggest these two lithologies are interbedded.

The agglomerate occurs in a NE trending belt lying between the diorite and the andesite. Extension of this belt to the NE is uncertain due to overburden cover.

Lack of attitudes on the property make structure interpretation difficult. The presence of agglomerate almost surrounding the diorite suggests diorite has domed the overlying volcanics. This would suggest agglomerate older than andesite. No major fold or fault structures were noted. Veins and dykes are minor and of only small scale with no observed mineralization.

Outcrop on the grid would be ~5% overall. Best exposures occur at the centre of the grid where several creeks have cut gullies. On the east and west margins of the grid the land is flat and very lacking in outcrop.

Minor pyrite occurs disseminated in andesite at the northern portion of the grid. Very minor chalcopyrite (?) also noted, but total sulphides do not exceed ¼%, and in most places no mineralization is evident whatsoever.

GEOCHEMISTRY

Soil samples were taken at 100 ft. intervals on all grid lines using a soil mattoch. Samples were taken below the ash layer in the "B" horizon. Average depth of sample was 8". All samples described in detail as to appearance, colour, depth, texture and appearance. All soil samples were shipped to the Atlas Exploration laboratory at Ross River for analysis. The locations of all soil samples were marked down on an enlarged grid.

381 soil samples were taken on the grid.

Results are unknown at this time, as analyses have not yet been received.

GEOPHYSICS

The geophysical survey was run using a Jalander magnetometer. Readings were taken at 100 ft. intervals along all grid lines. The readings were then plotted on to a grid map, scale 1"= 200 ft.

Several areas of anomalous values were noted, but no interpretation of these values has yet been attempted.

CONCLUSIONS AND RECOMMENDATIONS

Mineralization and alteration are very scarce on the AH 13-28 claims. The high magnetometer values may be from magnetite associated with the volcanic rocks. I could find no reason for the high copper geochemical values received from the 1967 survey.

From a study of the geology, mineralization on the area studied was very sparse and certainly uneconomical. Unless geochemical analyses turn up very favourable results, I recommend the property be dropped.

An assessment report is being written in order to keep the claims in good standing.

September 23, 1968.

ESTIMATED EXPENDITURES FOR AH 13-28 MINERAL CLAIMS

(9 Days - July and August, 1968)

1. Aircraft Charter

Helicopter - in	1.6 hrs. @ $135/hr.	$ 216.00
out	2.8 hrs. @ $135/hr.	$ 378.00

2. Vehicles

Approx. 150 miles @ $.15 per mile	$ 22.50

3. Salaries

Kirkland	- Geologist	- $180.00	
Newsom	- Geophysics Oper.	- $145.00	
Harper	- Geochem sampler	- $130.00	$ 455.00

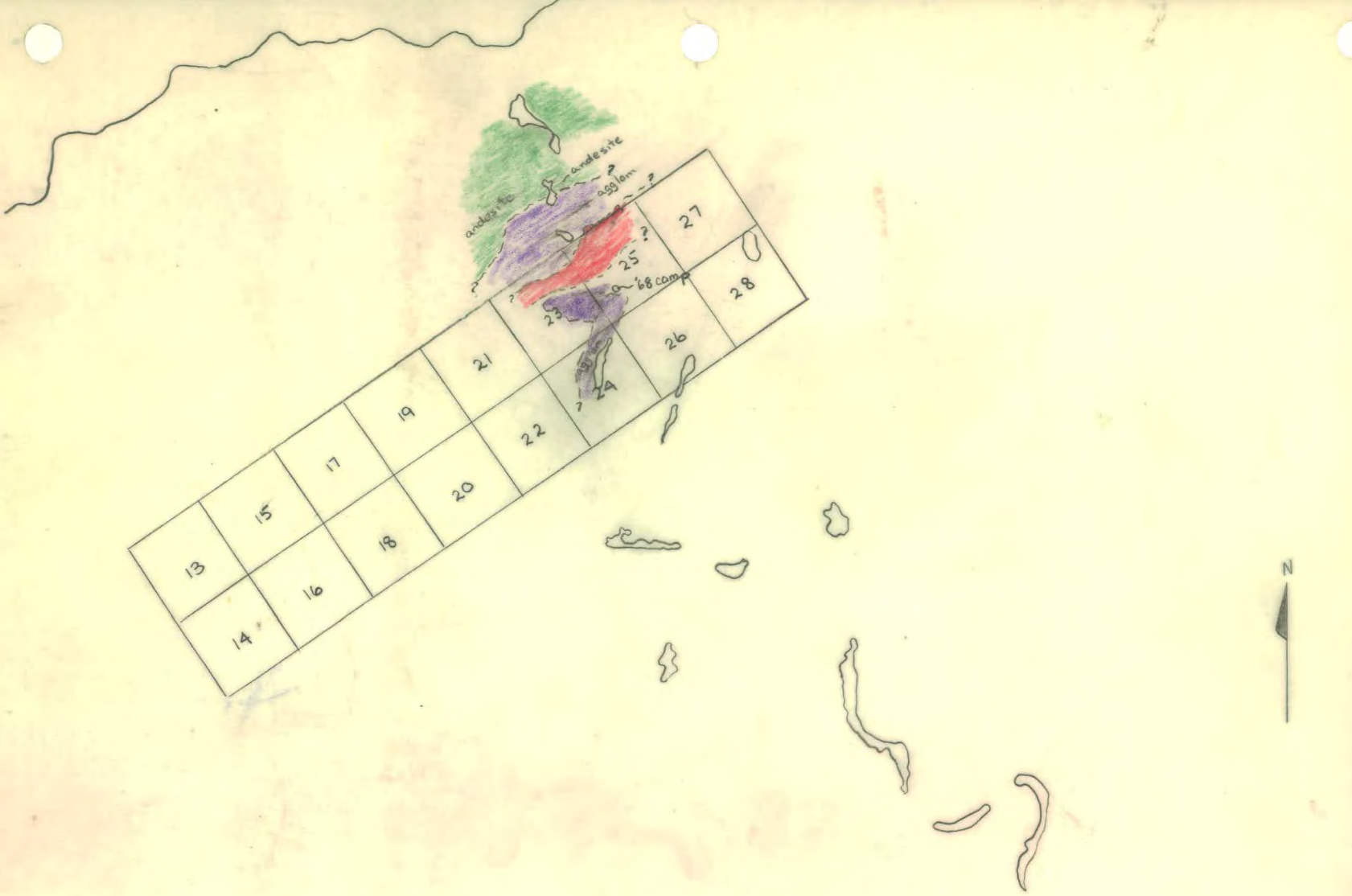
4. Camp Costs

3 men @ $10.00 per man per day	$ 270.00

5. Purchase of Equipment

6. Geochem Sample Analysis

381 soil samples @$2.00 per sample	$ 762.00



AH 13-28 Mineral Claims

Geology

Legend

- Andesite
- Agglomerate
- Intrusive Diorite

scale: 1" = ½ mile

Drawn by: K. Kirkland

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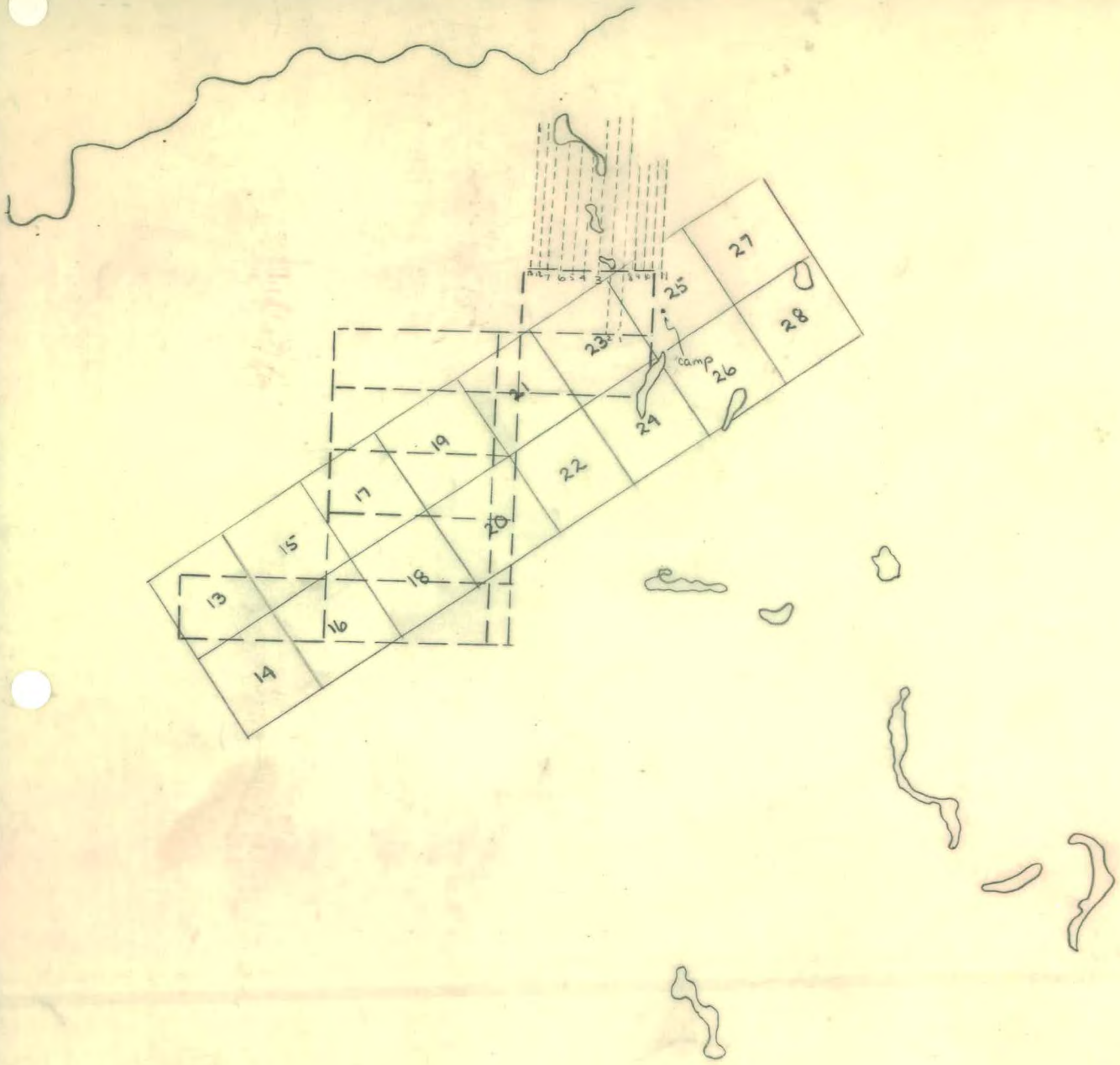

AH 13-28 Mineral Claims

Location of Grid Lines

——— claim lines

------- 1968 grid (Aug. 1 - Aug. 8)

— — 1967 grid

Scale: 1" = ½ mile

Drawn by: K. Kirkland

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GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR Jon Harper AREA B.H. Claim Group

DATE August 1, 1968 PROJECT LOCATION REF. Aishihik Lake

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS				
292	Line 1 0+00 N	10° NW	hill	clay	B"	light br		all samples taken dry					
293	1 N	"	"	"	"	red-br							
294	2 N	40° N	"	"	"	yell-br							
295	3 N	"	"	"	"	blk + brown							
296	4 N	0°	valley floor	"	12"	med-br							
297	5 N	"	"	ash + sand	24"	grey							
298	6 N	40° W	hill	clay	8"	red-br							
299	7 N	"	"	"	"	med-br							
300	8 N	"	"	"	20"	light-br							
301	9 N	"	"	"	8"	red-br							
302	10 N	"	"	"	"	"							
303	11 N	"	"	"	"	red + yell br							
304	12 N	"	"	"	"	yell-br							
305	13 N	"	"	"	"	"							
306	14 N	"	"	"	"	red-br							

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GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR Jan Harper AREA A. N. Claim Group

DATE August 1, 1968 PROJECT LOCATION REF. Aishihik Lake

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS				
338	Line 2 14+00N	60° N	hill	clay	8"	yell red br		15+00 N situated in lake					
339	13N	40° S		"	"	red-br							
340	12N	0°	crest of hill	ash + sand	~~ash~~ ash + sand in hole	grey white							
341	11N	30° NW	hill	clay	8"	yell-br							
342	10N	"	"	"	"	red-br							
343	9N	0°	gully flat	"	6"	"							
344	8N	25° W	hill	"	"	"							
345	7N	30° S	"	"	"	"							
346	6N	20° NE	"	"	15"	med-br							
347	5N	30° E	"	"	"	red-br							
348	4N	30° S	"	"	surface	grey							
349	3N	0°	crest of hill	"	6"	med br							
350	2N	"	"	"	"	"							
351	1N	"	"	"	"	red-br							
352	0	"	"	"	"	"							

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GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR Jon Harper AREA A. N. Claim Group

DATE August 1, 1968 PROJECT _____ LOCATION REF. Aishihik Lake

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS				
307	Line 1-15+00N	0°	crest of hill	clay	B"	yell-br		all samples taken dry					
308	16N	40° E	hill	"	"	red-br							
309	17N	0°	base of hill	"	"	med + dark br							
310	18N	0°	valley floor	"	"	med-br							
311	19N	40° W	hill	"	"	"							
312	20N	"	"	"	"	red-br							
313	21N	40° NW	"	"	"	"							
314	22N	40° SE	"	"	"	"							
315	23N	"	"	"	"	"							
316	24N	10° S	crest of hill	"	"	"							
317	25N	"	"	"	"	"							
318	26N	0°	"	"	"	yell-br							
319	27N	"	"	"	"	reds yell-br							
320	28N	10° N	"	"	"	light + red br							
321	29N	0°	"	"	"	med br							

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GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR Jon Harper AREA A.H. Claim Group

DATE August 1 1968 PROJECT LOCATION REF. Aishihik Lake

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS				
322	Line 1-30+00N	20°N	hill	clay	8"	reddish		sample taken dry					

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GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR Jon Harper AREA A. H. Claim Group

DATE August 1, 1968 PROJECT LOCATION REF. Aishihik Lake

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS				
323	Line 2-30+00N	20°N	hill	clay	8"	rust + yell-br							
324	29N	"	"	"	"	red-br							
325	28N	20°S	"	"	"	yell-br							
326	27N	20° NW		"	"	red-br							
327	26N	"	"	"	"	yell-br							
328	25N	0°	crest of hill	"	"	red-br							
329	24N	20°SW	hill	"	"	yell + red br							
330	23N	90°E	"	"	"	"							
331	22N	40°S	"	"	"	med-br							
332	21N	"	talus hill	"	surface	"							
333	20N	40°N	hill	clay + ash		blk + light br							
334	19N	"	"	clay		red br							
335	18N	40°S	"	"		"							
336	17N	"	semi talus hill	"		med br							
337	16N	0°	base of hill by lake	clay + gravel		"							

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GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR Jon Harper AREA A.H. Claim Group

DATE August 2, 1968 PROJECT _____ LOCATION REF. Aishihik Lake

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS
353	Line 3 - 0+00N	40°E	rocky slope	clay	8"	med-br			
354	1N	40°NE	"	"	"	red-br			
355	2N	30°SE	"	clay + ash	"	red br + white			
356	3N	0°	head of a gully	"	12"	blk + br + white			
357	4N	45°E	rocky slope	clay	"	yell-br			
358	5N	45°SE	"	"	8"	med-br			
359	6N	15°N	"	"	4"	"			
360	7N	20°S	small knob by lake	"	8"	red br + yell br			
361	8N	0°	valley floor by lake	"	"	blk			
362	9N	30°S	rocky slope	"	"	red br			
363	10N	45°E	"	gravel + clay	surface	med-br			
364	11N	40°N	"	"	8"	yell-br			
365	14N	45°SW	rocky bank sloping into lake	clay	"	"		Stations 12N and 13N are situated in a lake	
366	15N	35°SW	earthy slope	"	"	med-br		stations	

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GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR Jon Harper AREA A. H. Claim Group

DATE August 2, 1968 PROJECT _____ LOCATION REF. Aishihik Lake

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS				
367	line 3 - 16 room N	40° SW	earthy slope	clay	8"	yell. br							
368	17 N	"	"	"	"	med. br							
369	18 N	"	"	"	"	red. br							
370	19 N	"	grassy slope	"	"	yell. br							
371	20 N	"	"	"	"	red br							
372	21 N	"	"	"	"	red. br							
373	22 N	"	"	"	"	"							
374	23 N	30° SE	rocky slope	"	"	red br							
375	24 N	30° NW	grassy slope	"	"	med br							
376	25 N	30° SW	rocky slope	"	6"	light br							
377	26 N	"	"	clay + ash	"	"							
378	27 N	45° SW	"	clay	surface	red. br							
379	28 N	0°	crest of hill	"	8"	"							
380	29 N	20° N	grassy hill	"	"	"							
381	30 N	20° S	"	"	"	"							

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GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR Jon Harper AREA A.H. Claim Group

DATE August 2, 1968 PROJECT LOCATION REF. Aishihik lake

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS
382	line 4 - 20+00N	40°N	mossy slope	clay	4"	red br		grid line not continued due to a large lake	
383	19N	30°E	rocky slope	"	"	"			
384	18N	"	"	"	"	"			
385	17N	"	"	"	8"	light br			
386	16N	30°E	"	"	"	light + med br			
387	15N	30°SW	mossy slope	"	"	red br + blk		stations 15N and 14N are situated in a lake	
388	12N	0°	crest of hill	"	"	red br			
389	11N	30°SE	earthy slope	"	"	yell-br			
390	10N	0°	crest of slope	"	"	"			
391	9N	40°SW	earthy slope	"	"	red-br			
392	8N	30°NE	"	"	"	med br			
393	7N	30°E	"	"	"	dark br			
394	6N	30°S	rocky slope	"	"	red br			
395	5N	"	"	"	"	red br + yell-br			
396	4N	0°	crest of hill	"	"	"			

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GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR Jon Harper AREA A.N. Claim Group

DATE August 2, 1968 PROJECT _____ LOCATION REF. Aishihik Lake

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS				
397	Line 9 - 3100N	0°	crest of hill	clay	B"	red br yell br							
398	2N	"	"	"	"	red br							
399	1N	"	"	"	"	"							
400	ON	"	"	"	"	yell-br							

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GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR Jon Harper AREA A.M. Claim Group

DATE August 3, 1968 PROJECT _____ LOCATION REF. Aishihik lake

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS				
401	line 7 - 0+00 N	0°	flat plateau	clay	6"	med br + blk							
402	1N	"	"	"	"	red br + blk							
403	2N	"	"	"	"	red br + blk							
404	3N	"	"	"	8"	blk							
405	4N	"	"	"	"	"							
406	5N	"	"	"	"	red br + yell br							
407	6N	20° NW	mossy slope	"	"	blk + br							
408	7N	20° SE	"	"	"	"							
409	8N	20° E	"	"	"	red br							
410	9N	30° E	"	"	"	"							
411	10N	10° E	"	"	"	"							
412	11N	"	"	"	"	"							
413	12N	20° NE	"	"	"	red br							
414	13N	20° SE	"	"	"	red br							
415	14N	10° N	"	"	"	"							

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GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR Jon Harper AREA B. H. Claim Group

DATE August 3, 1968 PROJECT LOCATION REF. Aisnihik lake

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS
A16	Line T-15 100N	0°	flat plateau	clay	B"	red br			
417	16N	30° NE	mossy slope	"	"	"			
418	17N	40° NE	"	"	"	red br + dark br			
419	18N	"	"	clay + burnus	"	blk			
420	19N	"	"	"	"	blk + br			
421	20N	0°	marshy flat	"	"	blk			
422	21N	"	"	clay + ash	24"	light br			
423	22N	30° SE	rocky slope	"	B'	red br			
424	23N	"	"	clay	"	red br			
425	24N	"	"	"	surface	dark br			
426	25N	30° E	"	"	8"	light br			
427	26N	"	"	"	"	red br			
428	27N	10° N	mossy knob	"	"	"		Stations 28N, 29N, 30N are situated in a lake	

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GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR Jan Harper AREA A.H. Claim Group

DATE August 3, 1968 PROJECT _____ LOCATION REF. Aishihik lake

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS
429	line 7 - 0+00W	0°	flat plateau	clay	8"	med br + blk			
430	line 6 - 2+00W	10° E	mossy slope	"	"	red br			
431	" 1+00W	"	"	"	"	med br + blk			
432	" 0+00W	0°	flat plateau	"	"	med br			
433	line 5 - 2+00W	"	"	"	"	yell-br			
434	- 1+00W	0°	bottom of gully cut by small creek	"	"	dark br			
435	" 0+00W	"	flat plateau	"	6"	red br			
436	line 4 - 1+00W	"	"	"	"	yell-br			
437	0+00W	"	"	"	12"	med br			
438	line 3 - 2+00W	15° W	small knob	"	8"	red br			
439	- 1+00W	25° E	rocky slope	"	"	"			
440	- 0+00W	30° NE	mossy slope	"	12"	blk			
441	line 2 - 2+00W	40° NE	rocky slope	"	"	red br + yell br			
442	- 1+00W	20° NW	small knob	"	8"	yell br			
443	" 0+00W	25° N	rocky slope	"	"	red br			

ATLAS EXPLORATIONS LIMITED

GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR Jon Harper AREA A.H. Claim Group

DATE August 3, 1968 PROJECT LOCATION REF. Aishihik lake

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS				
444	line 1 - 3100W	25° N	rocky slope	clay	B	red br							
445	" 2100W	20° NE	small knob	"	"	med br							
446	" 1100W	30° SW	rocky slope	"	"	red br							
447	" 0+00W	30° W	mossy slope	"	"	"							

ATLAS EXPLORATIONS LIMITED

GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR Jon Harper AREA A.H. Claim Group

DATE August 4, 1968 PROJECT _____ LOCATION REF. Aishihik Lake

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS				
448	Line 6 - 0+00N	0°	flat plateau	clay	8"	med. br							
449	- 1N	"	"	"	"	med br + blk							
450	- 2N	"	"	"	"	blk							
451	- 3N	"	"	"	"	blk, br							
452	- 4N	"	"	"	"	red br							
453	5N	20° N	small knob	"	6"	"							
454	6N	15° W	"	"	8"	dark br							
455	7N	15° S	mossy slope	"	"	red br							
456	8N	20° NE	small knob	"	"	red br + yell. br							
457	9N	10° NE	"	"	"	blk							
458	10N	20° NE	mossy slope	"	"	"							
459	11N	20° E	rocky slope	"	"	med-br							
460	12N	0°	flat	"	"	red-br							
461	13N	"	"	"	"	"							
462	14N	30° NE	rocky slope	"	surface	"							

ATLAS EXPLORATIONS LIMITED

GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR Jon Harper AREA A. H. Claim Group

DATE August 4, 1968 PROJECT LOCATION REF. Aishihik Lake

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS
463	Line 6 - 15 ToON	30° N	mossy slope	clay	12"	blk.			
464	" 16N	40° NE	"	"	8"	med br + blk			
465	17N	"	"	"	surface	med br			
466	18N	0°	marshy flat	clay & humus	2"	"			
467	19N	40° SW	rocky slope	clay	surface	red br			
468	20N	"	"	"	"	"			
469	21N	40° W	"	"	4"	"			
470	22N	0°	flat plateau	"	8"	"			
471	23N	20° E	small knob	"	"	"			
472	24N	20° NE	"	"	"	"			
								Stations 25N - 30N are situated in lake	

ATLAS EXPLORATIONS LIMITED

GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR Jon Harper AREA A.M. Claim Group

DATE August 9, 1968 PROJECT LOCATION REF. Aishihik lake

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS				
473	line 5-26[illegible]N	40°NW	rocky slope	clay	4"	red br		Stations 27N-30N are situated in a lake					
474	25N	25°S	rocky knob	clay + ash	12"	white + dark br							
475	24N	40°SE	rocky slope	clay	surface	dark br							
476	23N	"	"	clay + ash	4"	light br							
477	22N	40°NE	mossy slope	clay	"	red br							
478	21N	0°	crest of hill	"	8"	"							
479	20N	30°SE	rocky slope	"	surface	light br							
480	19N	40°W	"	"	2"	med br							
481	18N	"	"	"	surface	"							
482	17N	40°NW	"	"	"	"							
483	16N	40°NE	mossy slope	"	12"	med br + blk							
484	15N	"	"	"	4"	med br							
485	14N	40°W	rocky slope	clay	4"	"							
486	13N	40°SW	"	"	"	yell br							
487	12N	"	"	"	"	"							

ATLAS EXPLORATIONS LIMITED

GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR Jon Harper AREA A.H. Claim Group

DATE August 4 1968 PROJECT LOCATION REF. Aishihik lake

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS
488	Line 5 - 11+00N	30° NE	rocky slope	clay	12"	br + blk			
489	10N	"	"	"	"	"			
490	9N	30° N	mossy slope	"	"	med br + grey			
491	8N	0°	crest of hill	"	8"	red br			
492	7N	30° NE	mossy slope	"	"	med br			
493	6N	30° SE	earthy slope	"	surface	red br			
494	5N	"	"	"	"	"			
495	4N	30° SE	"	"	"	med br			
496	3N	30° NE	mossy slope	"	8"	red br + yell br			
497	2N	20° NE	"	"	"	"			
498	1N	0°	crest of slope	"	"	"			
499	0N	20° S	mossy slope	"	"	"			

ATLAS EXPLORATIONS LIMITED

GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR Jon Harper AREA A.H. Claim Group

DATE August 6, 1968 PROJECT _____ LOCATION REF. Aishihik Lake

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS
500	Line 12 - 0+00N	10° N	mossy slope	clay	B"	blk		Stations 14+00N - 19+00N are situated in a very marshy area - no good soil	
501	-5+00N	10°SW	rocky knob	"	"	"			
502	-6N	20°SW	mossy slope	"	"	red br			
503	-7N	10°SW	"	"	"	"			
504	-8N	"	"	"	"	"			
505	9N	"	"	"	"	yell br			
506	10N	"	"	"	"	red br			
507	11N	0°	mossy flat	"	"	"			
508	12N	10°NE	mossy slope	"	"	"			
509	13N	"	"	"	"	med br			
510	14N	"	"	"	"	red br yell br			
511	15N	"	"	"	"	red br			

ATLAS EXPLORATIONS LIMITED
GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR Jon Harper AREA A.H. Claim Group

DATE August 6, 1988 PROJECT _____ LOCATION REF. Aishihik lake

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS				
512	Line 12 - 16A ON	10° NW	mossy slope	clay	8"	yell-br							
513	" 17N	0°	mossy flat	"	"	red br + yell br							
514	" 18N	20° NE	mossy slope	"	"	red br							
515	" 19N	"	"	"	"	"							
516	" 20N	10° NE	"	"	"	yell br							
517	21N	40° E	"	"	4"	dark br							
518	22N	"	"	"	"	med br							
519	23N	20° E	"	"	"	med br + blk							
520	24N	30° NE	rocky knob	"	8"	red br							
521	25N	0°	rocky flat	"	"	"							
522	26N	20° NE	mossy slope	"	"	"							
523	27N	"	"	"	"	red br + yell br							
524	28N	"	"	"	"	blk							
525	29N	"	"	"	"	blk+grey							
526	30N	"	"	"	"	blk+ br.							

ATLAS EXPLORATIONS LIMITED
GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR Jon Harper AREA A.H. Claim Group

DATE August 6, 1968 PROJECT LOCATION REF. Aishihik lake

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS
527	Line 3350 100N	25° N	mossy slope	clay	8"	yell br			
528	29N	"	"	"	"	red br			
529	28N	"	"	clay + sand	"	med br + red br			
530	27N	"	"	clay	"	med br			
531	26N	20° N	"	"	"	blk + br			
532	25N	"	"	"	"	"			
533	24N	"	"	sand	"	red br			
534	23N	"	"	clay	"	yell br			
535	22N	" 30° E	"	"	"	"			
536	21N	~~20° NE~~	"	"	"	dk br			
537	20N	0°	mossy flat	"	"	red br			
538	19N	0°	"	"	"	yell br			
539	18N	"	"	"	"	"			
540	17N	"	"	"	"	med br			
541	16N	"	"	"	"	med br + grey			

ATLAS EXPLORATIONS LIMITED
GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR Jon Harper AREA A.H. Claim Group

DATE August 6 1968 PROJECT LOCATION REF. Aishihik lake

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS				
542	Line 13-15 00N	0°	mossy flat	clay	8"	~~reddish~~ yell br							
543	14N	10° N	mossy slope	"	"	yell br + red br							
544	13N	20° N	"	"	"	red br							
545	12N	"	"	"	"	"							
546	11N	10° N	"	"	"	"							
547	10N	20° SW	"	"	"	"							
548	9N	-"	"	"	"	"							
549	8N	40° SW	rocky slope	"	"	" ~~reddish~~							
550	7N	30° N	"	"	"	~~reddish~~ yell br							
551	6N	20° E	mossy slope	"	"	yell br + red br							
552	5N	10° E	"	"	"	red br							
553	4N	10° SW	"	"	"	red br + yell br							
554	3N	10° E	"	"	"	" ~~reddish~~							
555	2N	"	"	"	"	red br							
556	1N	10° SW	"	"	"	red br + yell br							

ATLAS EXPLORATIONS LIMITED

GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR Jon Harper AREA A.H. Claim Group

DATE August 6, 1968 PROJECT LOCATION REF. Aishihik lake

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS				
557	Line 13 - 0+00N	10°SW	mossy slope	clay	B"	red br							

ATLAS EXPLORATIONS LIMITED
GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR Jon Harper AREA A.H. Claim Group

DATE August 6, 1968 PROJECT LOCATION REF. Nishilik Lake

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS
558	Line 8 - 2+00W	35° N	earthy slope	clay	6"	red br			
559	-1+00W	20° NE	mossy slope	"	"	red br + yell br			
560	-0+00W	"	"	"	8"	yell br			
561	Line 9 - 2+00W	0°	mossy flat	"	"	red br			
562	-1+00W	"	"	"	"	"			
563	-0+00W	40° SE	earthy slope	"	4"	"			
564	line 10 - 2+00W	25° SW	"	"	8"	"			
565	-0+00W	20° SW	mossy slope	"	"	grey br		station line 10 - 1+00W was situated in an area too marshy for soil	
566	line 11 - 4+00W	30° SW	earthy slope	"	"	red br			
567	-3+00W	15° SW	"	"	"	yell br			
568	-2+00W	10° E	mossy slope	"	"	"			
569	-1+00W	10° W	"	"	"	"			
570	-0+00W	0°	mossy flat	"	"	red br + yell br			

ATLAS EXPLORATIONS LIMITED

GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR Jon Harper AREA A. N. Claim Group

DATE August 7 1986 PROJECT LOCATION REF. Aishihik lake

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS
571	Line B-B700N	20°E	mossy slope	clay	8"	yell br			
572	1N	0°	mossy flat	"	"	red br			
573	2N	20°N	mossy slope	"	"	"			
574	3N	10°S	"	"	"	med br			
575	4N	25°N	"	"	"	red br			
576	5N	0°	mossy flat	"	4"	red br + yell-br			
577	6N	50°N	mossy slope	"	"	"			
578	7N	"	"	"	"	med br		Station B700N is situated in a very marshy area-nosol	
579	9N	40°S	earthy slope	"	"	"			
580	10N	"	"	"	"	"			
581	11N	10°NW	mossy slope	"	"	yell-br			
582	12N	"	"	"	8"	med br + dark br			
583	13N	0°	mossy flat	"	"	med br			
584	14N	20°E	mossy slope	"	"	med br			
585	15N	"	"	"	"	yell-br			

ATLAS EXPLORATIONS LIMITED
GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR Jon Harper AREA A.H Claim Group

DATE August 7 1968 PROJECT _____ LOCATION REF. Dishinik lake

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS				
586	Line B-16100N	10°W	mossy slope	clay	8"	yell-br							
587	-17N	0°	mossy flat	clay + minus	"	blk							
588	-18N	10°S	mossy slope	clay	"	red br + yell br							
589	-19N	20°W	"	"	"	"							
590	-20N	10°S(W)	"	"	"	"							

ATLAS EXPLORATIONS LIMITED

GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR Jon Harper AREA A.M. Claim Group

DATE August 7, 1968 PROJECT LOCATION REF. Aishihik lake

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS				
591	Line 1 - 31+00N	0°	mossy flat	clay	A"	red br + yell-br							
592	-32N	30°N	mossy slope	"	B"	"							
593	-33N	40°S	earthy slope with rock talus	"	6"	light br							
594	-34N	"	"	"	"	red br							
595	-35N	10°S	"	"	"	dark br							
596	+36N	0°	mossy flat	"	B"	med br							
597	-37N	"	"	"	"	med br + yell br							
598	-38N	"	"	"	"	red br + yell-br							
599	-39N	"	"	"	"	dark br							
600	-40N	"	"	"	"	med br							

ATLAS EXPLORATIONS LIMITED

GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR Jon Harper AREA A.H. Claim Group

DATE August 7 1988 PROJECT _____ LOCATION REF. Ashihik lake

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS				
601	Line 2 - 400m N	10° SW	mossy slope	clay	B"	med br							
602	- 39 N	0°	mossy flat	"	"	yell-br grey							
603	- 38 N	20° W	mossy slope flat	"	"	yell-br							
604	- 37 N	0°	mossy flat	"	"	med br							
605	- 36 N	20° S	ocanthy slope with rock ledges	"	"	red br							
606	- 35 N	40° W	"	"	4"	"							
607	- 34 N	20° W	"	"	B"	yell br							
608	- 33 N	20° S	"	"	4"	red br							
609	- 32 N	25° N	mossy slope	"	B"	yell-br							
610	- 31 N	10° W	"	"	"	"							

ATLAS EXPLORATIONS LIMITED

GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR Jon Harper AREA A.H. Claim Group

DATE August 7, 1968 PROJECT _____ LOCATION REF. Rishikik lake

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS
611	Line 9 - 20+00N	20°W	mossy slope	clay	B"	yell br			
612	" 19N	"	"	"	"	med br + dark br			
613	" 18N	"	"	"	"	red br + yell br			
614	" 17N	"	"	"	"	med br			
615	" 16N	10°E	"	"	"	red br			
616	" 15N	0°	mossy flat	"	"	"			
617	" 14N	"	"	"	"	"			
618	" 13N	"	"	"	"	"			
619	" 12N	"	"	"	"	"			
620	" 11N	10°SW	mossy slope	"	"	red br + yell-br			
621	" 10N	50°S	earthy slope	"	"	"			
622	" 9N	40°S	"	"	"	med br			
623	" 8N	30°NW	mossy slope	"	"	yell br			
624	" 7N	30°SW	"	"	"	med br		station 6+00N is situated in a very marshy area - no soil	
625	" 5N	40°NE	"	"	4"	"			

ATLAS EXPLORATIONS LIMITED

GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR Jon Harper AREA A.H. Claim Group

DATE August 7, 1968 PROJECT LOCATION REF. Dishihik lake

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS				
626	Line 9 - 4400N	30°SE	mossy slope	clay	4"	red br							
627	3N	40°E	"	"	"	yell-br							
628	2N	"	"	"	8"	red br							
629	1N	30°E	"	"	"	"							
630	0N	10°E	base of slope	"	"	red br							

ATLAS EXPLORATIONS LIMITED

GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR Jon Harper AREA A.H. Claim Group

DATE August 8, 1968 PROJECT _____ LOCATION REF. Aishihik Lake

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS
631	Line 10 +0+00N	10°NW	base of mossy slope	clay	8"	med br			
632	1N	"	"	"	"	med br + dk br			
633	2N	"	"	"	"	red br			
634	3N	30°W	"	"	"	"			
635	4N	"	"	"	"	"			
636	5N	"	"	"	"	yell br			
637	6N	30°SW	mossy slope	"	"	red br			
638	7N	45°SW	earthy slope	"	4"	yell-br			
639	8N	"	"	"	"	"			
640	9N	45°W	"	"	"	"			
641	10N	"	"	"	"	"			
642	11N	0°	mossy flat	"	8"	red br			
643	12N	"	"	"	"	red br + yell br			
644	13N	40°NE	mossy slope	"	"	"			
645	14N	"	"	"	"	red br			

ATLAS EXPLORATIONS LIMITED

GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR Jon Harper AREA A.H. Claim Group

DATE August 8 1968 PROJECT LOCATION REF. Aishihik lake

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS
646	Line 10- 15100N	10°S	mossy slope	clay	8"	red br			
647	16N	0°	mossy flat	"	"	"			
648	17N	10°N	mossy slope	"	"	"			
649	18N	"	"	"	"	red br + yell br			
650	19N	0°	mossy flat slope	"	"	"			
651	20N	"	"	"	"	"			

ATLAS EXPLORATIONS LIMITED

GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR Jon Harper AREA D.H. Claim Group

DATE August 8, 1968 PROJECT _____ LOCATION REF. Aishihik Lake

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS				
652	Line 11 20 00N	25°N	mossy slope	clay	8"	med br + blk							
653	19N	"	"	"	"	med br							
654	18N	"	"	"	"	red br + yell br							
655	17N	"	"	"	"	"							
656	16N	0°	mossy flat	"	"	red br							
657	15N	"	"	"	"	"							
658	14N	"	"	"	"	"							
659	13N	"	"	"	"	"							
660	12N	"	"	"	"	"							
661	11N	"	"	"	"	"							
662	10N	10° NE	mossy slope	"	"	"							
663	9N	0°	mossy flat	"	"	"							
664	8N	"	"	"	"	"							
665	7N	"	"	"	"	red br + yell br							
666	6N	"	"	"	"	red br							

ATLAS EXPLORATIONS LIMITED

GEOCHEMICAL SOIL SURVEY DATA

COLLECTOR Jon Harper AREA A.H. Claim Group

DATE August 8, 1968 PROJECT _____ LOCATION REF. Aishihik lake

SAMPLE NO.	LOCATION	DRAINAGE SLOPE	PHYSIOGRAPHY	SOIL TYPE	HORIZON & DEPTH	COLOUR	TEXTURE	REMARKS	ANALYTICAL RESULTS				
667	Line 11- Stn 1	0°	mossy flat	clay	B"	red br							
668	7N	"	"	"	"	"							
669	3N	"	"	"	"	light br							
670	2N	25°S	mossy slope	"	"	red br							
671	1N	10°S	"	"	"	dark br							
672	0N	"	"	"	"	red br							

ATLAS EXPLORATIONS LIMITED

ANALYTICAL WORK SHEET

GEOCHEMICAL

Report Number 61-211-13 Weight of Sample 1.2 gm

From Yukon Ogy Extraction HNO3-H2O

Tested For Cu Pb Zn Volume Used 10 cc

Date Aug 14/61 Analyst

SAMPLE NUMBER												
OURS	YOURS	Cu	PPM	Pb	PPM	Zn	PPM		PPM		PPM		PPM
1	JUNCTION 293		10		5		36	292	116		24		36
2	294		10		5		44						
3	295		18		19		38						
4	296		20		19		54						
5	297		10		32		26						
6	298		92		5		90						
7	299	X	100		19		76						
8	300		90		5		66						
9	(A) 300		90		5		66						
10	301	X	264		24		104						
11	302		76		19		60						
12	303		56		46		48						
13	304		62		27		60						
14	305	X	110		32		54						
15	306		42		19		72						
16	307		36		5		66						
17	308		68		55		76						
18	309		60		19		76						
19	310		32		19		54						
20	311		62		65		80						
21	(A) 311		60		55		80						
22	312		90		43		94						
23	313		92		19		84						
24	314	X	106		19		80						
25	315		26		37		56						
26	316		20		19		44						
27	317		20		19		46						
28	318		26		19		50						
29	319		30		27		54						
30	320		16		19		34						
31	(A) 320		16		19		38						
32	321		10		27		38						
33	322		16		27		58						
34	323		26		37		70						
35	324		32		42		58						
36	325		32		37		40						
37	326		26		27		104						
38	327		18		32		48						
39	328		36		19		66						
40	329		46		42		68						
	330		110		9		88						
	330.19		92		24		64						

ATLAS EXPLORATIONS LIMITED

ANALYTICAL WORK SHEET

GEOCHEMICAL

(2)

Report Number 68-AH-43 Weight of Sample 0.200gm

From YUKON-OEX Extraction HOT AQUA REGIA

Tested For Cu Pb Zn Volume Used

Date AUG. 15/68 Analyst

SOILS

SAMPLE NUMBER OURS	SAMPLE NUMBER YOURS	Cu	PPM	Pb	PPM	Zn	PPM		PPM		PPM		PPM
41	J. HARPER 292		16		24		36						
2	331		96		24		66						
3	332		10		55		34						
4	333		10		5		30						
5	334	X	126		27		54						
6	335		92		65		88						
7	336	X	164		24		86						
8	337		80		15		64						
9	338		60		24		36						
50	339	X	148		46		86						
1	340		10		15		20						
2	341	X	180		50		68						
3	(A) 341	X	180		24		76						
4	342	X	164		24		86						
5	343	X	206		19		114						
6	344	X	160		27		76						
7	345	X	134		37		72						
8	346	X	126		27		54						
9	347	X	301		19		98						
60	348	X	164		37		90						
1	344		16		5		48						
2	350		10	27	[illegible]		48						
3	(A) 350		10		27		54						
4	351		18		19		40						
5	352		10		60		38						
6	353	X	190		27		84						
7	354	X	1414		42		90						
8	356		62		42		64						
9	358		42		19		36						
70	357		56		19		56						
1	358		106		55		84						
2	359		50		10		68						
3	360		42		46		80						
4	(A) 360		42		37		72						
5	361		42		37		70						
6	362		96		5		102						
7	363		42		19		72						
8	364		80		27		70						
9	365		68		19		40						
80	366	X	104		43		72						
	367		1806		22		76						

ATLAS EXPLORATIONS LIMITED

ANALYTICAL WORK SHEET

GEOCHEMICAL

Report Number 68-AH-43 Weight of Sample 0.2 gms

From YUKON-DEX Extraction hot aqua regia

Tested For Cu, Pb, Zn Volume Used 10 mls

Date August 16/68 Analyst

Soil

SAMPLE NUMBER OURS	SAMPLE NUMBER YOURS	Cu	PPM	Pb	PPM	Zn	PPM		PPM		PPM		PPM
81	J HARPER 368		92		32		76						
2	369	X	134		37		72						
3	370	X	100		37		68						
4	(A) 370	X	140		37		98						
5	371		92		27		94						
6	372		60		43		98						
7	373		84		46		252						
8	374		20		10		84						
9	375		76		19		88						
90	376		56		55		20						
91	377		68		43		18						
2	378	X	361		19		72						
3	379	X	156		32		130						
4	380	X	100		37		112						
5	(A) 380	X	100		37		120						
6	381	X	180		19		108						
7	382	X	110		24		64						
8	383		32		43		96						
9	384		68		55		64						
100	385		30		27		36						
101	386		42		55		48						
2	387		30		37		28						
3	388	X	243		55		40						
4	389		68		24		112						
5	390		20		27		86						
6	(A) 390		20		27		86						
7	391	X	110		37		162						
8	392		62		27		108						
9	393		80		24		124						
110	394		70		10		72						
111	395		32		32		50						
2	396		20		46		72						
3	397		20		24		50						
4	398		32		27		50						
5	399		50		19		104						
6	400		18		60		96						
7	(A) 400		76		37		90						
8	401		46		27		48						
9	330		110		19		58						
120	(A) 330		92		24		64						

ATLAS EXPLORATIONS LIMITED

ANALYTICAL WORK SHEET

GEOCHEMICAL

(4)

Report Number 68-AH-43 Weight of Sample 0.2 Dogm

From Yukon-OEX Extraction Hot aqua regia

Tested For Cu, Pb, Zn Volume Used 10 mls

Date Aug 16/68 Soil Analyst

SAMPLE NUMBER OURS	SAMPLE NUMBER YOURS	Cu	PPM	Pb	PPM	Zn	PPM		PPM		PPM		PPM
121	J. HARPER 402		60		19		60						
2	403		20		27		40						
3	404		30		15		38						
4	405		46		19		30						
5	406		30		43		48						
6	407		90		15		38						
7	408	X	100		24		66						
8	409		26		37		56						
9	410		60		19		54						
130	(A) 410		68		27		54						
1	411		42		32		190						
2	412		36		24		96						
3	413		20		24		44						
4	414		80		24		90						
5	415		76		43		108						
6	416	X	284		24		86						
7	417		20		27		72						
8	418		70		19		76						
9	419		20		19		20						
140	420		30		19		30						
1	(A) 420		32		19		48						
2	421		26		32		46						
3	422		10		19		30						
4	423		42		32		20						
5	424	X	230		46		98						
6	425	X	243		27		60						
7	426	X	168		32		20						
8	427	X	126		27		26						
9	428		42		24		30						
150	429		68		19		30						
1	430		42		24		30						
2	(A) 430		36		27		40						
3	431		56		15		36						
4	432		60		50		54						
5	433		36		27		46						
6	434	X	164		19		50						
7	435		68		37		48						
8	436		84		24		46						
9	437		70		46		60						
160	438		42		19		90						

ATLAS EXPLORATIONS LIMITED

ANALYTICAL WORK SHEET

GEOCHEMICAL

(5)

Report Number 68-AM-73 Weight of Sample 0.200 gm

From YUKON-OEX Extraction hot aqua regia

Tested For Cu, Pb, Zn Volume Used 10 mls

Date August 16/68 Analyst

Soil

SAMPLE NUMBER		Cu	PPM	Pb	PPM	Zn	PPM		PPM		PPM		PPM
OURS	YOURS												
161	J HARPER 439		168		27		66						
2	440		80		46		80						
3	(A) 440		84		43		80						
4	441	X	164		24		72						
5	442	X	126		24		50						
6	443	X	206		46		58						
7	444	X	426		24		72						
8	445		16		50		70						
9	446	X	190		46		48						
170	447	X	100		55		38						
171	448		42		27		36						
2	449	X	264		80		56						
3	450	X	224		5		16						
4	(A) 450	X	236		10		16						
5	451		70		27		76						
6	452		16		50		44						
7	453		26		27		58						
8	454		32		73		50						
9	455		43		55		56						
180	456		32		37		40						
181	457	X	144		27		16						
2	458	X	104		50		20						
3	459	X	216		50		90						
4	460		50		43		72						
5	(A) 460		60		43		50						
6	461		26		65		48						
7	462	X	168		5		70						
8	463	X	100		27		16						
9	464		36		50		58						
190	465	X	426		50		94						
191	466		20		24		26						
2	467		60		65		20						
3	468		80		73		28						
4	469		80		24		46						
5	470		62		15		56						
6	(A) 470	X	144		15		76						
7	471		62		32		26						
8	472	X	116		43		54						
9	473	X	156		77		68						
200	474				32	X	680						

ATLAS EXPLORATIONS LIMITED

ANALYTICAL WORK SHEET

GEOCHEMICAL

(6)

Report Number 68-AH-43 Weight of Sample 0.200gm

From YUKON-OEX Extraction hot aqua regia

Tested For Cu, Pb, Zn Volume Used 10mls

Date August 16/68 Analyst

Soil

SAMPLE NUMBER		Cu	PPM	Pb	PPM	Zn	PPM		PPM		PPM		PPM
OURS	YOURS												
201	THARP-476		206		27		44						
2	476		30		27		8						
3	477		90		19		54						
4	478		80		19		38						
5	479		32		37		18						
6	480		104		19		26						
7	(A) 480		104		19		28						
8	481		90		24		36						
9	482		116		27		50						
210	483		106		19		38						
211	484		90		15		24						
2	485		84		27		16						
3	486		76		24		20						
4	487		50		19		6						
5	488		84		24		30						
6	489		84		24		58						
7	490		120		24		34						
8	(A) 490		126		19		36						
9	491		36		15		30						
220	492		46		43		84						
221	493		130		27		44						
2	494		120		32		64						
3	495		312		19		50						
4	496		76		24		60						
5	497		90		19		66						
6	498		60		32		36						
7	499		140		15		50						
8	500		56		24		16						
9	(A) 500		62		37		16						
230	501		108		19		10						
231	502		46		19		36						
2	503		26		15		48						
3	504		26		10		34						
4	505		20		24		26						
5	506		84		19		172						
6	507		126		19		138						
7	508		110		24		96						
8	509		70		19		46						
9	510		46		24		26						
240	(A) 510		42		19		26						

ATLAS EXPLORATIONS LIMITED

ANALYTICAL WORK SHEET

GEOCHEMICAL

(1)

Report Number 68-AH-43 | Weight of Sample 0.2 gm

From YUKON-DEX | Extraction hot aqua regia

Tested For Cu, Pb, Zn | Volume Used 10 mls

Date August 14/68 | Analyst

SOIL

SAMPLE NUMBER OURS	SAMPLE NUMBER YOURS	Cu	PPM	Pb	PPM	Zn	PPM		PPM		PPM		PPM
241	J.HARPER 511		50		32		36						
2	512		26		24		28						
3	513		56		24		26						
4	514		68		15		36						
5	515		60		27		36						
6	516		243		19		28						
7	517		76		50		36						
8	518		36		24		24						
9	519		68		27		34						
250	520	x	500		15		76						
251	(A)520		450		27		70						
2	521		92		24		46						
3	522		46		15		38						
4	523		30		27		16						
5	524		30		15		12						
6	525		46		60		8						
7	526		36		19		16						
8	527		56		37		20						
9	528		46		27		20						
260	529		56	65	~~36~~		26						
261	530		26	19	~~24~~		26						
2	(A)530		30	14	~~24~~		30						
3	531		76	32	~~36~~		24						
4	532		164	27	~~36~~		36						
5	533		110	43	~~26~~		24						
6	534		36	19	~~36~~		26						
7	535		70	27	~~24~~		30						
8	536		30	37	~~8~~		30						
9	537		36		37		44						
270	538		30		32		24						
271	539		60		32		34						
2	540		20		14		36						
3	(A)540		20		19		36						
4	541		56		27		50						
5	542		104		19		18						
6	543		20		19		30						
7	544		30		24		54						
8	545		20		24		40						
9	546		32		24		24						
280	547		30		10		40						

ATLAS EXPLORATIONS LIMITED

ANALYTICAL WORK SHEET

GEOCHEMICAL

8.

Report Number 68 - AH - 43 | Weight of Sample .2 GRM

From YUKON OEX | Extraction HOT AQUA REGIA

Tested For Cu, Pb, Zn | Volume Used 10 ml.

Date August 16/68 | Analyst

SOIL

SAMPLE NUMBER OURS	SAMPLE NUMBER YOURS	Cu	PPM	Pb	PPM	Zn	PPM		PPM		PPM		PPM
281	J. HARPER 548		42		37		46						
2	549		230		24		60						
3	550		278		60		40						
4	551		18		24		44						
5	(A) 551		18		37		48						
6	552		42		14		84						
7	553		110		15		180						
8	554		20		60		30						
9	555		20		19		44						
0	556		46		15		26						
291	557		40		37		36						
2	558		126		24		48						
3	559		26		19		26						
4	560		92		24		64						
5	(A) 560		110		24		60						
6	561		174		24		78						
7	562		92		43		36						
8	563		278		32		72						
9	564		380		60		60						
0	565		18		27		28						
301	566		20		19		36						
2	567		36		37		30						
3	568		30		27		30						
4	569		26		37		28						
5	570		50		24		50						
6	(A) 570		46		37		50						
7	571		116		24		50						
8	572		80		32		50						
9	573		200		50		66						
0	574		42		27		56						
311	575		116		46		56						
2	576		126		32		36						
3	577		168		32		48						
4	578		180		19		60						
5	579		260		37		70						
6	580		243		24		84						
7	(A) 580		220		27		86						
8	581		106		10		36						
9	582		60		37		40						
320	583		60		27		38						

ATLAS EXPLORATIONS LIMITED

ANALYTICAL WORK SHEET

GEOCHEMICAL

9

Report Number 68-AH-43 Weight of Sample 0.200gm

From Yukon-a ex Extraction hot aqua regia

Tested For Cu, Pb, Zn Volume Used 10 mls

Date August 16/68 Analyst

Soil

SAMPLE NUMBER OURS	SAMPLE NUMBER YOURS	Cu	PPM	Pb	PPM	Zn	PPM		PPM		PPM		PPM
301	HARPER 584		50		43		26						
2	585		60		19		40						
3	586		32		43		80						
4	587		32		27		18						
5	588		68		27		44						
6	589		36		45		48						
7	590		32		43		38						
8	(A) 590		20		32		38						
9	591		168		27		58						
330	592		206		27		72						
331	593		392		19		70						
2	594		140		19		90						
3	595		30		19		84						
4	596		46		24		58						
5	597		152		32		30						
6	598		120		24		72						
7	599		~~46~~		130		55		86				
8	600		~~46~~		46		27	48	~~44~~				
9	(A) 600		42				27	48	50				
340	601		18				19		38				
341	602		80				27		34				
2	603		30				24		58				
3	604		32				24		34				
4	605		46				19		44				
5	606		250				24		98				
6	607		104				19		98				
7	608		144				27		86				
8	609		42				50		70				
9	610		26				19		26				
350	(A) 610		20				24		26				
351	611		80				27		38				
2	612		110				32		44				
3	613		76				60		44				
4	614		46				24		46				
5	615		70				37		46				
6	616		30				15		40				
7	617		30				46		54				
8	618		80				19		54				
9	619		42				37		50				
360	367		186				27		76				

ATLAS EXPLORATIONS LIMITED

ANALYTICAL WORK SHEET

GEOCHEMICAL

10

Report Number 68 - AH - 43 Weight of Sample .2 grm

From YUKON OFX Extraction HOT AQUA REGIA

Tested For Cu, Pb, Zn Volume Used 10 ml

Date Aug. 16/68 Analyst

SOIL

SAMPLE NUMBER		Cu	PPM	Pb	PPM	Zn	PPM		PPM		PPM		PPM
OURS	YOURS F. HACKER												
361	620		36		19		44						
2	620 A		42		15		48						
3	621		442		43		56						
4	622		90		27		66						
5	623		116		32		46						
6	624		330		19		54						
7	625		104		39		38						
8	626		350		19		64						
9	627		438		24		64						
0	628		330		24		72						
371	629		324		19		72						
2	630		152		19		60						
3	630 (A)		178		19		60						
4	631		96		19		24						
5	632		126		32		44						
6	633		32		43		50						
7	634		42		32		60						
8	635		32		37		50						
9	636		30		37		66						
0	637		50		46		60						
381	638		42		31		68						
2	639		32		43		46						
3	640		26		27		40						
4	640 (A)		30		27		40						
5	641		30		24		38						
6	642		84		24		44						
7	643		56		50		36						
8	644		50		37		44						
9	645		92		27		54						
0	646		32		19		36						
391	647		18		27		34						
2	648		70		24		34						
3	649		50		32		38						
4	650		68		37		72						
5	650 (A)		50		43		72						
6	651		130		43		72						
7	652		70		27		40						
8	653		30		37		48						
9	654		36		55		58						
400	655		36		60		64						

ATLAS EXPLORATIONS LIMITED

ANALYTICAL WORK SHEET

GEOCHEMICAL

Report Number -- - MM - 45 | Weight of Sample .2 gram

From Yukon OEX | Extraction HOT AQUA REGIA

Tested For Cu, Pb, Zn | Volume Used 10 ml.

Date Aug. 16/68 | Analyst

SAMPLE NUMBER		Cu	PPM	Pb	PPM	Zn	PPM		PPM		PPM		PPM
OURS	YOURS												
401	J. HARPER 656		30		32		56						
2	657		36		37		30						
3	658		32		19		38						
4	659		70		37		50						
5	660		32		37		50						
6	660 (A)		30		46		48						
7	661		36		27		48						
8	662		56		27		44						
9	663		36		32		38						
410	664		56		24		38						
1	665		32		27		48						
2	666		116		32		40						
3	667		32		37		44						
4	668		50		55		44						
5	669		26		15		48						
6	670		36		50		46						
7	670 (A)		42		43		48						
8	671		92		15		72						
419	672		46		15		80						

Traverse 28K Aug. 3/68

AH 13-28 Mineral Claims

Claims Sheet 115-H-9

Air Photo A 11369-4

Line 1

OSH295 ~75' E of L1 2+15N

o.c. on side of bluff o.c. ~ 15' high x 30' wide

rock is light grey/brown weathering porphyritic volcanic containing (+10%) volcanic fragments up to $\frac{3}{4}$" (but av. ~$\frac{1}{4}$") on fresh surface

the rock is dark greenish-grey with 5-10% feldspar phenos (< $\frac{1}{8}$")

minor epidote on one fragment

no mineralization observed, no attitudes

Specimen # 1

the abundance of fragments is very

variable, at the bottom of this o.c. only 1-2% fragments, but some are up to 5" long alt are porphyritic volcanics

1 sample of volc. (no frags) #2

several small ocs 150' West of L1 6+50N

From L1 9+25 to 11+00 there is abundant float on the sidehill of a dark greenish-grey coarse grained intrusive (diorite?) this has some rust stain but no mineralization was observed the rock would probably be considered a Hornblende-Biotite Diorite

1 sample #3

OJH305 approx 125' West of L1 12+75N a small (20'x20') o.c. of light reddish-buff weathering f/g green to greyish green andesite(?) the rock is massive, apparently lacking in phenocrysts, although a few small amygdules filled with epidote were noted - this may be the same as the grey volcanic

at 13+50N more Diorite float noted and just below 14+00N some porphyritic volc. float noted, this is the dark greenish-grey variety

OJH308 L1 15+75N large cliff at North end of ridge exposure 30'x50' of whitish-grey weathering, c/g, diorite with no observed mineralization

the diorite is greenish-grey in colour but

has minor iron stain on some joint surfaces

1 specimen #4

O'JH 309 approx 100'W of L1 17+00N

a large hill ~80' high of greyish-green porphyritic amygdaloidal andesite(?)

no attitude could be measured

minor disseminated chalcopyrite (pyrite?) in specimen $\ll \frac{1}{4}\%$ metallics

in places the rock seems to be altered it is very rubbly weathering and contains abundant epidote

1 specimen #5

bedding - this had attitude 015°/, dip could not be measured.

'OJH597 L1 37+50N

o.c. 5' x 20' of dark grey, massive aphanitic to fine grained volcanic - possibly a dyke? a few very small feldspar phenocrysts were observed in the o.c. but would constitute <2% of total rock

one specimen contained a few very small dissem blebs of chalcopyrite (?) - may be only pyrite total sulphides $< \frac{1}{2}\%$

1 sample #9

'OJH598 32+00N 2' x 3' o.c. of greenish-grey finely porphyritic

andesite, some epidote in small amygdules no mineralization seen

Specimen #10

'OJH605 L2 35+25N

3'x3' oc of dark grey, fine grained, finely porphyritic volcanic rock - no attitude taken

the rock is well indurated with no apparent mineralization

weathered surface is med. grey to brown

specimen #11

"OJH 607 L2 33+50N o.c. 10'x30'

of massive dark grey andesite(?)

OJH312 50' East of L1 20+00N

o.c. 20'x20' of greyish-green porphyritic andesite with ~5% phenocrysts of a greenish-brown pyroxene phenos to $\frac{1}{4}$" in size minor Mn stain

no attitude could be determined

no mineralization observed

1 specimen #6

OJH314 20' W of 21+75, large semi-continuous outcrop around this hill - the rock is a f.g. med. to dark grey andesite containing about 20% phenocrysts of feldspar the phenocrysts are ~$\frac{1}{16}$" in size

about 2% mica, probably chlorite (after biotite?)

also minor epidote

disseminated chalcopyrite ~$\frac{1}{2}$% in one sample generally $\ll \frac{1}{4}$%

2 samples #7 contains $\frac{1}{2}$% chalcopy
#8 no mineralization

OJH318 75' East of 25+50N

o.c. 5'x25' of light grey to buff weathering volcanic agglomerate - the matrix is dark grey, finely porphyritic (feldspar) and contains rounded fragments of porphyritic volcanics - the fragments are up to 5" in size but average 1"

the abundance of fragments is highly variable, ranging from 0-30%

- one area of high abundance may be

containing ~5% feldspar phenocrysts up to $\frac{1}{8}$" in size

the matrix is aphanitic to fine grained with $< \frac{1}{4}$% dissem. sulphides (chalcopyrite)

Specimen #12

O.C. is almost continuous from here East to L1 34+00N on south slope of this hill very minor calcite veining - see air photo

OJH350 L2 27+50' 50'E of line is an o.c. 4'x5' of a massive, fine grained, greyish-green volcanic rock - no mineralization, veining etc.

no attitude, no sample

"OJH348 50' E of L2 26+00N o.c. 3'x10'
of light grey to buff weathering massive porphyritic volcanic rock

on a fresh surface the rock is also a light buff colour, suggesting abundance of phenocrysts of feldspar

in the hand specimen, phenos comprise approx 30% of the total rock

no apparent mineralization

1 specimen #13

OJH345 30' W of L2 23+00
exposure 15'x 40' of volcanic breccia (agglomerate) the matrix is a dark grey porphyritic (in places amygdaloidal) andesite the fragments are all porphyritic, ranging from purple to buff in colour the fragments range

from $\frac{1}{4}$" to 6" in size and from rounded to angular in shape they comprise from 10% to 50% of the total rock in these various ocs

no attitude could be measured

several small quartz veinlets criss-cross the outcrop no mineralization was seen in veinlets or agglomerate

no Specimen no specific orientation veinlets ~12" apart

several small (10x20) o.cs of this agglomerate outcrop 50' to 100' North of this station

'O'JH344 L2 22+00N large exposure on south slope of hill above

creek rock appears to be a dark grey porphyritic andesite but on some weathered surfaces an agglomerate texture shows up it is difficult in hand specimen to distinguish between the two - the andesite is probably matrix joints 65-105

no sample

DJH340 L2 18+00N top of knob on south side of creek

on fresh surface rock appears to be dark grey, f.g. porphyry (in places amygdaloidal) but on some weathered surfaces some areas seem to be agglomerate Could it be that there are layers of agglomerate within the

andesite ??

1 sample #14

between 17+00 and 18+00 still andesite

detouring around east side of small lake, float off hill is greenish-grey porphyritic amygdaloidal volcanic (greenstone) epidote comprises about 3%, feldspar phenos 5%, minor rust stains, remainder is fine grained matrix

no mineralization observed

1 sample #15

all of this small hill on south side of lake appears to be andesite with 10-30% fragments (porphyritic volcanic)

from 19+00N to 13+00N

'OJH334 L2 11+00 to 10+00

Small hill of andesite and some agglomerate

agglomerate is usually reddish-buff weathering, the andesite grey-brown

no attitude was taken

no sample taken

'OJH330 L2 7+75

small lump of intrusive at small hill in gully

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AH 13-28 Claims

Claim Sheet 115-H-9

Air Photo A11369-4

Beginning at L7 0+00N

'O'JH409 OC. 50' West of L7 8+25

-the exposure is approx 10' high x 100' long (N-S, E-W)

weathered surface: med. grey to reddish-buff

fresh surface: dark grey to greenish-grey

the rock is a feldspar porphyry andesite with fine grained matrix

phenocrysts 15-20%, also about 5% qtz filled amygdules max size of phenos

and amygdules approx $\frac{1}{8}$"

most of the outcrop is this porphyritic andesite but one small area in the SE corner contains 15-20% volcanic fragments, angular to rounded, in andesite matrix

irreg. calcite veinlets constitute $<<\frac{1}{2}\%$ of o.c.

several irregular veinlets of epidote were also scattered throughout the o.c. (less abundant than the calcite)

no mineralization observed

2 samples #16, #17

at the SE exposure fragments mainly subrounded, up to 3" across

1 irregular quartz-epidote vein

up to $\frac{3}{4}$" wide (max) and 8' long

at the bottom of o.c. was a contact between a dark, f.g. volcanic, non-porphyritic (dyke) and the volcanic conglom-breccia contact $\angle 65^{\circ}$ 040

if the dense rock is a flow, it is probably the bottom since it is very dense and non-amygdaloidal - this would mean the beds were right side up

1 sample of dense rock #18

I could find no evidence to support either flow or dyke

the o.c. is almost continuous running NE-SW (extending from 8+00 to 9+50)

the rock is mainly andesite but in places up to 40% of o.c. is volc. breccia-conglomerate

'O' JH412 L7 11+00N 10'x10' o.c. of reddish-buff weathering feldspar porphyry andesite - at this point no conglomerate-breccia

less than 1% calcite-filled amygdules some chalcopyrite in amygdules - total sulphide $< \frac{1}{4}\%$

1 sample containing chalcopyrite #19

approx. 3% dissem. epidote in hand sample

'O' JH415 several small ocs of feldspar-porphyry andesite - some contain very minor dissem. chalcopyrite $< \frac{1}{4}\%$

at L7 14+00N reddish-buff weathering porphyritic andesite greenish-grey in colour

o.c. is small (2'x8') no attitude

1 small bleb, possibly chalcopyrite, seen

no specimen

'O'JH419 75' E of L7 17+50N

o.c. 20' high x 15' wide of dark grey andesite

same as all previous oc's

one very small bleb of pyrrhotite seen in rock - no attitude taken the rock is massive

-no specimen

'O'JH423 large hill about 50% exposure hill ~80' high and 200' long

L7 22+00N rock weathers grey to reddish brown on fresh surface dark grey aphanitic andesite with

10-15% feldspar phenocrysts up to $\frac{1}{8}$" long

approx 3% epidote, mainly in small amygdules

at this point a 3" wide med. grey, aphanitic dyke cross-cuts the andesite

some fine grained metallics present (chalcopyrite ?) but $< \frac{1}{4}$% of rock

1 sample #20

OC continues on to 25+00 N

the rock type remains much the same

calcite veinlets ~ 1-2% of OC very irregular

a few small calcite-epidote pods, and occasional qtz-epidote stringer

very minor mineralization $< \frac{1}{4}$% looks like chalcopyrite but could be only pyrite occurs in the andesite as small blebs ~ $\frac{1}{32}$"

two small shears noted on E side of o.c. these were irregular, but trended E-W and were almost vertical - width of the shears only 2"-3" no mineralization

one shear on N side of o.c ran N-S and dipped approx 30° to W this was also very irregular thickness 2"-3" no mineralization

further west on same o.c. there are many very small shears in the andesite most trend N-S and are almost vertical width <1"

often calcite along shears

'O' JH428 L7 27+00N small hill with o.c 10'x 20' rock is reddish-brown weathering porphyritic (fine par.) andesite - phenocrysts 5-15%, matrix 85%

- no mineralization was observed
- no specimen

L6 24+00N

O.C. is semi-continuous along the line for several hundred feet

the rock is a grey weathering, dark grey fine grained volcanic or dyke rock with few or no feldspar phenocrysts, and in almost all places, minor amounts of dissem. sulphide probably pyrite sulphides estimated at $\frac{1}{4}\%$ to $\frac{1}{2}\%$

in places small pods of calcite $< \frac{1}{2}"$ in size not common

2 samples #21, #22

oc from 24+00N to 20+00N is mainly dark grey andesite? with ~5% feldspar phenocrysts - small blebs of sulphide common (< 1/4 % of whole rock)

occasional rounded inclusion (vole. eql. ?)

'0' JH463 50'E of L6 15+00N small hill 10'x10' of dark grey feldspar porphyry andesite the rock weathers to a grey brown minor calcite filled vesicles (<1% of oc) no mineralization observed

1 sample = 22

L6 12+50N oc is the more porphyritic andesite containing minor dissem. sulphide oc 6'30' trends N-S in places ~ 1% and contains large (to 8")

rounded fragments of a light green porphyritic volcanic

this andesite contains 10-15% phenocrysts of feldspar

1 sample of green volcanic #24

0' JH460 L6 11+75'N

apparent flow contact 315/75

beds appear overturned (upper bed is very porphyritic (see #25) and lower bed has good alignment of mafic crystals (see #26)

2 samples #25, #26

#26 is more northerly of the two

#25 is fairly common, reddish-brown weathering porphyritic andesite

OC ~20'x60' #26 occurs just as

a small bleb at the North end of the exposure

This oc is almost continuous, trending to SW and crossing line 7 at ~ 0+00N. Check info on L7

'O' JH ? oc. (6'x10') of volc cgl fragments are porphyritic volc. up to 8" - angular to rounded av size ~ 2" fragments ~ 60% of oc, matrix is finely porphyritic plagioclase-andesite porphyry the fragments show no preferred orientation

minor pyrrhotite (<1/4%) no other sulphides

no specimen

'O' JH454 L6 6+00N

small oc 20'x20' of greenish-grey andesite with abundant feldspar phenos (~20%), qtz amygdules (5%), minor biotite

no mineralization observed

1 sample #27

'O' JH453 L6 4+50 o.c. 5'x10'

again the greyish-green very porphyritic volcanic, but here it contains ~5% rounded fragments

no sample

150' E of this station is oc 15'x100' of volc. cgl - weathers to reddish-buff

weathered surface is very rubbley

outcrop trends NW

no sample

OC ~125'E of 4+50N is also

volc cgl no sample

these outcrops contain 30-40% round

fragments

another oc of volc. cgl. at 4+00N

Walking back along Base Line

D'JH433 100'E of L6 0+00

o.c. 4'x5' of rubbley weathering volc. cgl.

fragments are of porphyritic volcanics and

comprise ~20% of o.c. The fragments range

from $\frac{1}{4}$" to 5" average ~1"

most fragments are round, a few

angular

no mineralization observed

no sample

'O' JH 499 ~250' E of L6 0+00N

still - cgl. (volc.) but here matrix appears more coarse grained and the fragments are up to 12" (still round, porphyritic) but most are ~1" in size

no mineralization

no sample

'O' JH 436 75' E of L5 0+00N

o.c. 5'x5' of same volc. cgl.

no sample

'O' JH 438 ~250' E of L5 0+00N

volc. cgl-breccia with a grey porphyritic andesite matrix containing 20-30% volc. fragments the fragments range from angular

300' West of L2 at equiv. L3 200-300

volc. cgl

walking toward intrusive

4+00N intrusive ocs

to rounded up to 12" av. 1½"

- no mineralization

- 1 sample #28

'O' JH353 50'S of L3 0+00N

exposure of volc. cgl. 30' high x 70' long

same as before, unmineralized

matrix is dark grey andesite with

minor pyrite pods (<1%), ½% biotite, ½%

pyroxene phenocrysts minor epidote

1 sample #29

approx 150' West of L2 9+00N

o.c of volc

OJH329 L2 6+00 to 5+00 N o.c. of cg hornblende diorite, just west of line o.c. trends SW ~40' high x 100'

1 sample #30

no apparent mineralization

OJH328 20'E of 4+60N (L2) o.c. of volc. cgl with 2-3% epidote, 2-3% calcite along fractures, 2% quartz calcite+quartz veinlets are irregular, $\leq \frac{1}{2}$" wide, barren av. spacing approx. 1'

no sample

OJH327 L2 3+75 andesite cgl

no mineralization about 5% epidote

1 sample #31

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AH 13-28 Mineral Claims

Claims Sheet 115-H-9

Air Photo A 11369-4

L5

0'JH497 20'W of L5 2+40N 5'x10' O.C

of agglomerate 20% fragments porphyritic volcanic frags angular to rounded most fragments $<\frac{1}{2}$" but a few up to 8"

the matrix is dark greenish-grey porphyritic andesite weathering to a med grey-brown

2 qtz veins ~$\frac{1}{2}$" wide and several quartz veinlets trend 85/015 qtz veinlets 1-2% of o/c

many veinlets are very irregular, average spacing between veinlets 6"-10"

no mineralization

no sample

20' N of last station another o.c 10'x10' of same lithology

OJH496 ~100'W of LS 3+00N

exposure 20' high x ' long trending NNE along creek valley

the south end of the exposure is the agglomerate with grey-green andesite matrix

approx. 15-20% fragments all fragments are porphyritic volcanics of diverse colours (grey, purple, grey-green)

average fragment size 1-2" max. 8"

most fragments well rounded

the agglomerate texture is best seen on a weathered surface

the andesite matrix contains ~10% feldspar

phenocrysts (up to $\frac{1}{8}$") and 1-2% augite phenos (up to $\frac{1}{8}$") minor rusty stain on fractures

no mineralization

no sample

this large o.c. crosses L5 at 6+00N and continues 40' to the NNE

the rock remains essentially an agglomerate, but varies considerably - often rubbley weathering, the weathered surface varies from green to reddish brown in places most of the fragments are <1" in size and often angular all fragments are volcanic, porphyritic

amount of fragments varies from 5-25%

0' JH 490 L5 8+50N 3'x3' o.c. of

greyish-green andesite with ~5% small fragments (~$\frac{1}{4}$") mainly subangular to subrounded

no mineralization

no sample

L5 13+00N float of coarsely porphyritic, med grey volcanic sample #32

'0' JH 485' ~40' W of L5 14+00N

30'x30' o.c. of grey-green andesite containing <5% small (<$\frac{1}{2}$"), rounded fragments

in places 2-3% calcite veinlets, very irregular

andesite contains ~5% feldspar phenocrysts, 1-2% augite phenocrysts

no mineralization

1 sample andesite #32

'0'JH L5 14+00 same lith as previous small dyke 3" wide 040/85 sample of dyke #33

O'JH482 L5 16+50 to 17+00 N o.c. of what seems to be a fairly homogeneous, med grey, finely porphyritic andesite with 1-2% small vesicles filled with calcite and epidote the rock does not have any apparent fragmental nature as did the last few o.c. with their few volcanic fragments

~2% augite phenocrysts (to $\frac{1}{8}$")

1 sample #34

O.C IS fairly continuous to 19+00 N andesite varies from grey to grey-green, in places 5% calcite filled amygdules, up to 15% feldspar phenocrysts

no mineralization

1 sample amygdules #35

O'JH 478 L5 21+00N O.C 100'x100'x20' high

of grey to greenish-grey andesite

in places the rock is well indurated, grey with ~5% quartz amygdules and minor ~$\frac{1}{4}$% sulphides (pyrite) but generally the rock is not very well indurated - often difficult to get a fresh surface

1 sample with amygdules, sulphides #36

24+00N to 25+50N O.C ~50'E of line - still greenish-grey to grey andesite but here ~5% epidote in small short veinlets irregular orientation ~$\frac{1}{2}$% sulphides ($\frac{1}{4}$% pyrite, $\frac{1}{4}$% chalcopyrite)

1 sample #37

O'JH 400 From 20+00N L4 to 18+00N L4

grey to grey-green andesite 15-20% feldspar phenocrysts rock is well indurated

no mineralization

rock weathers from med grey to buff

1 sample #38

'O' JH 396 50' W of LA 16+00N

grey-green porphyritic amygdaloidal andesite with ~2% of 3 amygdules

no mineralization observed

1 sample #39

'O' JH 395 LA 13+00N 5'x5' o.c. of andesite with 5-10% small rounded volcanic fragments

average fragment size ~$\frac{1}{4}$"

andesite is dark grey ~15% feldspar phenocrysts rock weathers to light brown

this o.c. is on the south shore of this small

lake 16+00N is just on the north shore

no sample

'O' JH394 12+50N to 12+00N agglomerate 15-20% fragments up to 8" (average 1"-2") all fragments are porphyritic volcanic most are rounded to subrounded

rock weathers to light reddish-brown

no mineralization

no sample

at 11+00 10'x10' o.c same as at 12+50N

'O'JH392 L4 9+75N 2'x10' o.c of greenish weathering andesite containing ~10% fragments most are angular and <1" in size

andesite ~20% feldspar phenocrysts

no mineralization no sample

0' JH388 LA 5+50N 4'×15' oc of agglomerate ~20-25% fragments mostly well rounded porphyritic volcanic fragments matrix is light grey-green weathering porphyritic andesite fragments $\frac{1}{4}$" to 8"

andesite is med grey-green on fresh surface

no mineralization, no sample

25' SW is a 15'×10' o.c. same as at 5+50 N

0' JH387 LA 4+75 15'×20' o.c. same as previous station no mineralization

no sample

several small oc's of agglomerate up until 4+00 N, then slope flattens and ocends

from line 4 several oc's over to L3 (where steep cliff ends)

several 10'x10' oc's of agglom. 2+25N, 2+50N, 1+75N, 1+25N, 75N all pretty much the same

L3 1+00N to 3+00N agglomerate float

'O'JH357 L3 3+75N 5'x10' oc of andesite and minor agglomerate

the andesite is medium to dark grey with 15-20% feldspar phenocrysts ($\sim \frac{1}{16}" - \frac{1}{8}"$) and 1-2% augite phenocrysts (up to $\frac{1}{8}"$)

a few large (up to 10"), rounded volcanic fragments were noted in the outcrop

minor rust stain on surfaces of the andesite same oc of agglom. 15' NW of this station

1 sample of andesite #40

DJH 358 50'E of 5+25N

rock is grey andesite

small shear (6 wide) ~~75~~ 105 with several qtz veinlets cutting along through the shear zone

doesn't appear to have been much displacement

no mineralization no sample

This is a very large oc ~100' high, 75' wide, 100' long

mainly andesite, but the NE corner is composed of agglomerate, andesite matrix fragments variable 5-20% most are subrounded

no mineralization

Andesite 10-15% feldspar phenocrysts, 5% augite phenocrysts

no attitude, no sample

D'JH363 L3 10+00N 100'x100' oc.
on top of small hill at south end of lake
lithology is rubbley weathering agglomerate
10-20% rounded volcanic fragments
from $\frac{1}{4}$" to 12" in size
the matrix is green to brown weathering
andesite with ~10% feldspar phenocrysts, 5-10%
quartz amygdules
no mineralization
no sample

D'JH365 100'E of L3 15+00N
large exposure 200'x200' on sidehill
of grey-green porphyritic andesite

calcite and epidote - the volcanic doesn't have any fragments it is very clean - feldspar phenocrysts range from 5-15% of the whole rock

OJH381 50'E of L3 29+50N

4'x15' oc. of greyish-grey andesite well indurated, containing ~ 15-20% feldspar phenacrysts

weathered surface is reddish buff

no mineralization

1 sample #44

25'E of 29+75N o.c. 15'x20' similar to dark, fine grained andesite forming large cliff no sample

0' JH590 150' W of L8 20+00N

2'x4' o.c of dark grey porphyritic andesite

15% plagioclase phenocrysts, 5% augite phenos

no mineralization

Sample # 45

rubbley weathering

unmineralized

1 sample #41

'O' JH372 L3 21+50N

float of porphyritic andesite - ~5%

small (<1") fragments

no sample

'O' JH374 L3 23+00N oc. 10' wide

trending NNE (~100' long) rock is med. grey

plagioclase-augite porphyry (possibly a

dyke?)

weathered surface light buff colour

~20% plagioclase phenocrysts $\frac{1}{16}$" - $\frac{1}{8}$" long

2% augite $\frac{1}{16}$" - $\frac{1}{8}$"

no mineralization

1 sample #42

this o.c. is ~200' E of centre of small lake

'O' JH378 L3 26+75 N

Part of very large exposure which extends at least 400' W and 200' E

rock is a dark grey, well indurated porphyritic, amygdaloidal andesite(?) containing ~$\frac{1}{2}$% calcite in small pods, as well as trace of fine magnetite and trace of dissem. sulphide probably pyrite $\ll \frac{1}{4}$% sulphide

no attitudes could be seen

1 sample #43

a few of the vesicles are filled with

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Air Photo A11369-4

OJH638 L10 7+00N 2'x3' oc on sidehill greenish grey well indurated andesite ~10% feldspar phenocrysts ~1/8" in size no mineralization

1 sample #46

OJH580 150'E of L8 10+00

several small ocs over area 50'x200' of the coarse grained hornblende diorite no mineralization ~10-15% hornblende

1 sample #47

'O' JH588 L8 17+75N 5'x10' oc of grey, well indurated porphyritic andesite containing ~15% feldspar phenocrysts up to $\frac{1}{8}$" in size and 1-2% augite phenocrysts to $\frac{1}{8}$"

no mineralization

1 sample #48

'O' JH589 50'E of L8 19+00N

10'x10' oc. of greenish andesite ~10% feldspar phenocrysts and 5% quartz filled amygdules, ~5% augite phenocrysts to $\frac{1}{8}$" long

no mineralization

weathered colour uncertain as lichen cover rock

no sample

OJH588-589 150'W of 19+00N and trending SW for 150' area of sub-exposure several small oc's within the area

rock is grey to greenish-grey feldspar-augite andesite porphyry feldspar 15%, augite 2-3% (both up to $\frac{1}{8}$") 1 specimen had very minor dissem pyrite $< \frac{1}{4}$%

the rock is well indurated

weathering colour unknown due to lichen

1 sample #49

oc continues to L1 23+00

difficult to see, but most of oc seems to be grey to green-grey andesite with minor agglomerate in some places

OJH315 75' NE of L1 23+00N o.c. is dark grey, well indurated feldspar-augite andesite porphyry feldspar phenos $< \frac{1}{16}$"

the augite phenocrysts up to $\frac{1}{8}$" in size

the rock is very dense

no apparent mineralization

1 sample # 50

150' NE of L2 16+00N in gully between L1 and L2 some agglomerate float and some andesite float

O'JH551 L13 5+75N

oc. 3'x10' of grey to reddish brown weathering feldspar porphyry andesite on fresh surface the rock is dark greenish-grey, the feldspars difficult to see - 1 to 2% epidote as small masses 1 small bleb of quartz (amygdule?) contained 2 small blebs of pyrite

this o.c. extends to 24+00N

at 24+00 much of the o.c. has a rounded appearance almost suggesting pillow lavas (no other evidence than shape)

~75E of L12 23+00N 100'x 60' x 20' high hill of the reddish-brown weathering andesite. no mineralization.

O'JH516 L12 20+25N West end of large o.c. (100', 50' high) still the red-brown weathering porphyritic andesite 5-10% feldspar phenos no mineralization in places 1-2% zeolite-filled amygdules

no sample

O'JH509 L12 12+50N 2 small (2'x5') ocs of red-brown weathering feldspar porphyry andesite well indurated med to dark grey on a fresh surface

no mineralization

no sample

L12 8+00N to 10+00N several small ocs of this same dark-grey andesite

O'JH503 L12 6+50N 5'x10' oc of dark grey andesite here the feldspar phenocrysts are more obvious on fresh surface than before

no mineralization

no sample

the pyrite was $< \frac{1}{16}$" in size total metallics $<< \frac{1}{4}$%

on weathered surface feldspars are more obvious as they weather white and stand out from the red brown matrix total feldspars 5-10%

1 sample #51

semi-continuous exposure continues WNW for ~150'.

the andesite is well indurated and dense a few augite phenocrysts ($\sim \frac{1}{16}$") noted

OJH 549 L13 7+50 to 8+00N exposure on sidehill 15' high x 50' long dark grey to green andesite well indurated, much like last station minor pyrite

no sample

from 8+00N to 10+00 several small < 10' sq. ft

of the dark grey, well indurated andesite noted at the last two stations

no mineralization

no samples

'0' JH 522 N-S trending Qc from L12 26+50N to L12 25+00N

reddish-brown weathering feldspar-porphyry andesite ~10% phenos up to $\frac{1}{8}$" in length on fresh surface dark grey, well indurated non-mineralized

containing in places 5-10% amygdules up to 1" in size but averaging ~$\frac{1}{4}$" amygdules filled with quartz, epidote, and red zeolite

quartz 1-2%, zeolite ~2%, epidote ~3%

1 sample # 52

0 JH501 L12 5+00N 30'x30' hill

of more greenish andesite not as well

indurated as previous rocks

no mineralization

no sample

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Claim Sheet 115-H-9

Air Photo A 11369-4

'0' JH298 100' W of L1 6+00N small oc 2'x3' on east side of small hill in gully

lithology is grey-green, coarse grained intrusive diorite

weathered surface buff to reddish-buff

the diorite appears to be homogeneous at this point

no mineralization or alteration noted

1 sample #53

on a weathered surface feldspar crystals up to $\frac{1}{4}$" long can be easily seen - these comprise ~70% of the diorite, the remainder is mafic (e.g. hornblende)

Semi-continuous oc. of this hornblende diorite extends NW ~75' then is lost under overburden

40' farther west small oc is what is probably f.g. diorite greenish-grey in colour = the composition seems to be the same as that of the diorite

unmineralized

1 sample #54

O'JH574 75'E of L8 2+50N

15'x15' oc of the coarse grained green-grey hornblende diorite

the oc is homogeneous and unmineralized subcutrop extends ~200' to West - intrusive is homogeneous

'O' JH626 100'W of L9 3+50N

several ocs of the coarse grained hornblende diorite on the sidehill

the rock is homogeneous, unaltered, weathering colour unknown due to lichen the fresh surface is dark greenish-grey with ~15% hornblende, most of remainder feldspar

the hill just NW of camp is composed entirely of the coarse grained diorite

'O' JH331 50'E of L2 7+50N

a small hill composed of coarse grained diorite and a finer grained contact phase

the contact rock occurs only at 1 small oc. on the hill - this contact rock is dark green-

grey, fine grained with <5% feldspar phenocrysts

neither of the lithologies was mineralized

no samples

'O' JH353 50'S of L3 1+00N

SW trending ridge has several 30'x30' ocs of medium to dark greenish-grey feldspar-augite andesite porphyry augite 5%, feldspar 10%

the phenocrysts are less than $\frac{1}{8}$" in length

no mineralization observed

1 sample #57

'O'JH382 L4 400'S of 0+00

5'x10' oc of volcanic agglomerate

the matrix is green, well indurated andesite

'O'JH316 50'NE of L1 14+00N

10'x10' oc. of dark greenish-grey andesite with some large augite phenocrysts up to $\frac{3}{8}$" in size? the rock is unmineralized and probably represents a rock near the contact

augite phenocrysts ~5% of whole rock

1 sample #55

'O'JH576 75'W of L8 5+00N

20'x20' oc of homogeneous, coarse grained hornblende diorite no mineralization

no sample

'O'JH577 50'W of L8 5+75N

hornblende diorite 10'x10' unmineralized

no sample

O'JH625 ~150' W of line 9 5+00N

2-5'x5' ocs almost touching 1 consists of hornblende diorite the other (more easterly) consists of a fine grained, grey-green, well indurated rock which may be chilled diorite or thermally metamorphosed andesite wallrock

neither outcrop was mineralized

1 sample of the fine grained lithology #56

moving SE from here there seems to be a variety in outcrops with andesite and diorite often in close proximity this probably represents a near-contact zone - the andesite could be unassimilated wall rock or the diorite could just be small tongues from the main intrusive

containing 15-20% rounded porphyritic volcanic fragments the fragments are difficult to see on a fresh surface, but stand out quite well on a weathered surface

2-3% epidote disseminated throughout oc.

no mineralization

1 sample #58

intrusive occurs in several small ocs between L4 4.50N and L4 0.00N

L13 L12 L7 L6 L5 L4 L3 L2 L1 L8 L9 L10 L11

LAKE

LAKE

LAKE

LAKE

Pond

LAKE

N

32.0°

1" = 100 Gammas
50 100

Atlas Explorations Ltd (NPL)

Yukon Operation

AH #13-28 Mineral Claims

Magnetometer Survey

Survey by: N. Newsom NTS 115-H-9

Date: Aug. 3-8, 68 Fig No.

Scale 1"= 200' Drawn by N. Newsom

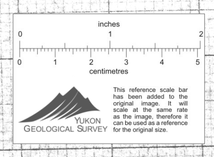
inches
0 1 2
0 1 2 3 4 5
centimetres

YUKON GEOLOGICAL SURVEY

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

	L13	L12	L7	L6	L5	L4	L3	L2	L1	L8	L9	L10	L11
30+00N	520	340					800	1320	620				
29+00N	410	550					190	120	800				
28+00N	550	780					1080	630	2420				
27+00N	500	1830	600				-360	600	560				
26+00N	510	2300	190		-250		110	430	1200				
25+00N	470	2390	400		1370		100	1120	1050				
24+00N	560	440	150	430	1610		90	640	280				
23+00N	660	290	-130	1460	360		340	1490	350				
22+00N	660	270	20	1270	1100		80	40	-30				
21+00N	1210	310	-50	-320	1140		170	590	830				
20+00N	1510	1410	-100	220	460	310	180	330	1490	360	510	750	260
19+00N	1580	990	-60	110	500	340	170	420	1130	710	490	810	360
18+00N	760	710	70	240	450	240	120	150	1150	830	760	1050	500
17+00N	1180	700	690	430	420	280	160	590	1450	330	620	900	740
16+00N	590	360	950	100	240	80	90	950	1150	520	620	640	860
15+00N	530	300	270	110	180	No STN.	130	1740	1450	440	670	590	740
14+00N	220	980	1280	280	340	No STN.	80	950	1070	400	690	530	640
13+00N	1130	240	1320	930	230	360	No STN.	1060	1600	420	580	560	760
12+00N	940	-1770	750	850	220	530	No STN.	750	910	560	760	570	710
11+00N	140	930	910	450	130	280	-10	500	710	610	1080	720	730
10+00N	1620	1280	1110	280	130	300	400	170	880	810	1160	660	760
9+00N	1160	1060	210	300	40	30	-80	700	440	470	490	850	910
8+00N	280	540	320	340	340	-30	50	3860	440	550	430	910	1100
7+00N	110	450	470	420	170	-30	50	1490	460	660	580	920	1300
6+00N	650	680	410	380	320	10	-120	1380	890	940	600	370	1260
5+00N	1250	480	530	840	80	10	600	1080	1010	710	510	1180	
4+00N	1300	500	430	300	-10	440	1110	1760	1400	980	840	720	1180
3+00N	800	530	480	340	130	310	690	820	1170	1120	730	500	1140
2+00N	750	400	490	110	330	-80	80	430	690	550	680	710	1130
1+00N	510	320	520 450	450	400	330	140 410	430	710	1060	610	680	1550
0+00N	870	330	360	510	490	440	690	350	580	1140	620	680	1220

								120 440	480				
								440	770				
								560	710				
								650	360				
								510	790				
								880	890				
								2110	800				
								2140	1500				
								1990	1100				
								1440	1850				



Ground Mag Values
AH 13-29 Mineral Claims
115-14-9

KEUFFEL & ESSER CO.
MADE IN U.S.A.

K&E STANDARD © CROSS SECTION
10 X 10 TO THE INCH

KEUFFEL & ESSER CO.
MADE IN U.S.A.

Line 13

527
528
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Line 12

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n.s.
n.s.
n.s.

Line 7

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Line 6

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Line 5

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Line 4

382
383
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385
386
missed (lake)
missed (lake)
387
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440

Line 3

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missed (lake)
missed (lake)
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Line 2

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336
337
missed (lake)
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Line 1

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598
599
560
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562
563
564
n.s.

Line 8

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584
583
582
581
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579
missed
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Line 9

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613
614
615
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619
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621
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623
624
missed
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Line 10

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Line 11

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672

N

320°

inches
0 1 2
0 1 2 3 4 5
centimetres

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YUKON GEOLOGICAL SURVEY

Atlas Explorations Ltd.

Yukon Operation

AH 13-28 Mineral Claims

Geochemistry

(Soil Sample Locations)

Sampler : J. Harper NTS: 115-H-9

Date of Survey: Aug 1-8 Fig. No:

Scale: 1" = 200' Drawn by: J. Harper

KEUFFEL & ESSER CO. MADE IN U.S.A.
K+E STANDARD © CROSS SECTION 10 X 10 TO THE INCH

Line 13 | Line 12 | Line 7 | Line 6 | Line 5 | Line 4 | Line 3 | Line 2 | Line 1 | Line 8 | Line 9 | Line 10 | Line 11

LAKE

no outcrop

D'JH428 15% feldspar phenocrysts no mineralization

D'JH522

several small irregular shears trend N-S

small shear vertical trends E-W

D'JH423 several small irregular shears, trend E-W

< 1% sulphide, very small dissem. (pyrite)

dark grey very fine grained, few feldspar phenocrysts andesite or dyke?

D'JH478 1-2% dissem. (pyrite?)

5% quartz amygdules dissem. pyrite (1-2%)

D'JH515

D'JH473 1/4% chalcopyrite

D'JH381

D'JH 378 very minor dissem. pyrite?

D'JH dark grey, few phenocrysts a dyke (?)

D'JH dark grey, finely porphyritic

D'JH379 (possibly a dyke?)

D'JH

andesite float

D'JH400 ~5% calcite filled amygdules

D'JH584

D'JH588

no outcrop on entire line

D'JH419

D'JH432 non-fragmental whatsoever

D'JH426

D'JH 360

D'JH 398

D'JH 365

D'JH 318 mainly agglomerate, but ill defined, extremely looking rounded fragments

D'JH463 <1% calcite amygdules no mineralization

~5% small fragments

D'JH435

D'JH415 minor dissem. sulphides

D'JH 345 10-50% fragments minor quartz veining

D'JH 349

D'JH 319

D'JH 363

D'JH 312

D'JH580 coarse grained hornblende diorite

D'JH 340

D'JH 309

porphyritic amygdaloidal abundant epidote, possibly altered

D'JH

D'JH 308

D'JH577

greyish-green unmineralized

D'JH576

D'JH 316

Beaver Pond

D'JH565

D'JH574

D'JH 306

greyish-green, almost no phenocrysts

diorite float

agglomerate float

D'JH 334

abundant diorite float

D'JH 335 <1% calcite pods

D'JH 330

D'JH 329

D'JH 328

D'JH 327

D'JH 295 fragment abundance variable

9E+18N of previous survey

this spot is the same as 9E+16N of previous survey

Variolite float

15E 424N from old survey

Camp

D'JH409

D'JH 549

D'JH603

D'JH551

D'JH602

D'JH459 greenish-grey 20% feldspar phenos, 10% quartz amygdules

D'JH 453

D'JH 388

D'JH 387

D'JH 385

D'JH 384

D'JH 383

D'JH 387 andesite, minor agglomerate

D'JH 386

D'JH 497

D'JH 496

andesite-agglomerate contact (possibly interbedded?) nature of contact uncertain

D'JH409 60% fragments, up to 2% minor pyrrhotite

D'JH400 ~5% small volcanic fragments

D'JH402 andesite volcanic fragments (too small to be) agglomerate

D'JH412 <1% calcite-filled amygdules 1-2% sulphide 3% epidote

D'JH416 andesite with minor fragments

D'JH460 flow contact?

D'JH509

D'JH415 minor dissem. sulphides

D'JH435

D'JH463 <1% calcite amygdules no mineralization

~5% small fragments

D'JH 382 andesite with <20% volcanic fragments

D'JH 384

D'JH 345 10-50% fragments minor quartz veining

D'JH 349

D'JH 319

D'JH 363

D'JH 312

D'JH580 coarse grained hornblende diorite

D'JH 340

D'JH 309

porphyritic amygdaloidal abundant epidote, possibly altered

D'JH

D'JH 308

D'JH577

greyish-green unmineralized

D'JH576

D'JH 316

Beaver Pond

D'JH565

D'JH574

D'JH 306

greyish-green, almost no phenocrysts

diorite float

agglomerate float

D'JH 334

abundant diorite float

D'JH 335 <1% calcite pods

D'JH 330

D'JH 329

D'JH 328

D'JH 327

D'JH 295 fragment abundance variable

9E+18N of previous survey

this spot is the same as 9E+16N of previous survey

Variolite float

15E 424N from old survey

Camp

D'JH409

D'JH 549

D'JH603

D'JH551

D'JH602

D'JH459 greenish-grey 20% feldspar phenos, 10% quartz amygdules

D'JH 453

D'JH 388

D'JH 387

D'JH 385

D'JH 384

D'JH 383

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D'JH 386

D'JH 497

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D'JH412 <1% calcite-filled amygdules 1-2% sulphide 3% epidote

D'JH416 andesite with minor fragments

D'JH460 flow contact?

D'JH509

D'JH415 minor dissem. sulphides

D'JH435

D'JH463 <1% calcite amygdules no mineralization

~5% small fragments

D'JH 382 andesite with <20% volcanic fragments

D'JH 384

D'JH 345 10-50% fragments minor quartz veining

D'JH 349

D'JH 319

D'JH 363

D'JH 312

D'JH580 coarse grained hornblende diorite

D'JH 340

D'JH 309

porphyritic amygdaloidal abundant epidote, possibly altered

D'JH

D'JH 308

D'JH577

greyish-green unmineralized

D'JH576

D'JH 316

Beaver Pond

D'JH565

D'JH574

D'JH 306

greyish-green, almost no phenocrysts

diorite float

agglomerate float

D'JH 334

abundant diorite float

D'JH 335 <1% calcite pods

D'JH 330

D'JH 329

D'JH 328

D'JH 327

D'JH 295 fragment abundance variable

9E+18N of previous survey

this spot is the same as 9E+16N of previous survey

Variolite float

15E 424N from old survey

Camp

D'JH409

D'JH 549

D'JH603

D'JH551

D'JH602

D'JH459 greenish-grey 20% feldspar phenos, 10% quartz amygdules

D'JH 453

D'JH 388

D'JH 387

D'JH 385

D'JH 384

D'JH 383

D'JH 387 andesite, minor agglomerate

D'JH 386

D'JH 497

D'JH 496

andesite-agglomerate contact (possibly interbedded?) nature of contact uncertain

N

32.0°

Legend

1 Porphyritic andesite
2 Volcanic agglomerate
3 Intrusive Diorite
4 Dyke

Symbols

outcrop area
claim post
claim boundary
D'JH1 outcrop whose nearest geochem soil sample location is JH1
stream
030 / 45 attitude and composition of veins
intrusive contact assumed

inches 0 1 2
centimetres 0 1 2 3 4 5

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

YUKON GEOLOGICAL SURVEY

Atlas Explorations Ltd.

Yukon Operation

AH 13-28 Mineral Claims

Geology

Mapped by: K.Kirkland	NTS 115-H-9
Date: Aug. 3 - Aug. 8, 1968	Fig. No.
Scale: 1" = 200'	Drawn by: K.Kirkland

Line 13 | Line 12 | Line 7 | Line 6 | Line 5 | Line 4 | Line 3 | Line 2 | Line 1 | Line 8 | Line 9 | Line 10 | Line 11

20 | 16 | | | | | 158 | 88 | 48 | | | | |
20 | 8 | | | | | 112 (120) | 84 | 86 | | | | |
26 | 12 | | | | | 130 | 58 | 72 | | | | |
26 (80) | 16 | 30 | | | | 72 | 34 | 30 | | | | |
24 | 38 | 26 | | 68 | | 18 | 44 | 58 | | | | |
36 | 46 | 20 | | 650 | | 20 | 98 | 84 | | | | |
24 | 76 (94) | 60 | 54 | 44 | | 88 | 98 | 40 | | | | |
26 | 84 | 98 | 26 | 8 | | 84 | 86 | 70 | | | | |
30 | 24 | 20 | 56 (76) | 54 | | 262 | 70 | 48 | | | | |
30 | 30 | 30 | 46 | 38 | | 98 | 26 | 58 | | | | |
44 | 28 | 96 | 28 | 48 | 64 | 94 | 70 | 58 | 58 | 38 | 72 | 40 |
24 | 30 | 30 (96) | 20 | 26 (28) | 96 | 68 (96) | 58 | 36 | 48 | 44 | 72 | 48 |
84 | 30 | 20 | 26 | 36 | 64 | 72 | 40 | 34 (38) | 44 | 44 | 38 | 58 |
36 | 26 | 76 | 44 | 50 | 36 | 70 | 104 | 54 | 18 | 46 | 84 | 64 |
50 | 28 | 72 | 58 | 38 | 48 | 76 | 48 | 50 | 60 | 46 | 34 | 56 |
18 | 36 | 86 | 16 | 24 | missed (lake) | 72 | 66 | 46 | 40 | 40 | 36 | 30 |
50 | 26 | 108 | 70 | 16 | missed (lake) | 96 | 68 | 49 | 76 | 54 | 57 | 38 |
54 | 46 | 90 | 98 | 20 | 26 | missed (lake) | 58 (94) | 56 | 38 | 54 | 44 | 50 |
90 | 96 | 94 | 72 (50) | 6 | 96 | missed (lake) | 66 | 80 | 40 | 50 | 36 | 50 (98) |
24 | 138 | 96 | 90 | 30 | 42 | 78 | 34 | 84 | 36 | 41 (98) | 44 | 46 |
40 | 172 | 190 | 20 | 58 | 86 | 72 | 30 | 94 | 84 (94) | 56 | 38 | 44 |
96 | 26 | 54 | 16 | 34 | 162 | 102 | 54 | 80 | 70 | 66 | 40 | 38 |
66 | 84 | 86 | 40 | 30 | 108 | 70 | 68 | 54 | missed | 46 | 46 | 38 |
40 | 48 | 66 | 56 | 84 | 124 | 60 (72) | 86 | 76 | 60 | 54 | 68 | 48 |
44 (48) | 36 | 58 | 30 | 44 | 72 | 68 | 64 | 76 | 48 | missed | 60 | 40 |
94 | 10 | 98 | 58 | 64 | 50 | 84 | missed (lake) | 46 | 36 | 38 | 46 | 44 |
180 | n.s. | 30 | 44 | 50 | 72 | 56 | 36 | 72 | 56 | 64 | 50 | 44 |
30 | n.s. | 58 | 76 | 60 | 50 | 36 | 86 | 54 | 56 | 64 | 60 | 48 |
44 | n.s. | 90 | 16 | 66 | 50 | 64 | 20 | 60 | 66 | 72 | 50 | 96 (98) |
26 | n.s. | 60 | 56 | 136 | 109 | 90 | 68 (76) | 48 | 50 | 72 | 44 | 72 |
36 | 16 | 48 | 36 | 50 | 96 (90) | 84 | 86 | 60 | 50 | 60 | 24 | 80 |
n.s. | n.s. | n.s. | n.s. | 30 (46) | 36 | 54 | 40 | 50 | 48 | 36 | 72 | 60 |
n.s. | 28 | 36 | 30 | 48 | 46 | 60 | 72 | 48 | 26 | 64 (66) | 48 | 36 |
72 | 50 | 58 | 72 | 70 | 48 | 38 | 114 | 104 | 66 | 76 | 72 | 60 |
n.s. | 28 | 36 | 30 | 30 | 28 | 50 | 76 | 72 | 76 | 90 | 54 | 50 |
28 | 36 | 30 | 48 | 44 | 50 | 98 | 90 | 54 | 26 | 54 | 44 | 72 |
72 | 50 | 58 | 72 | 70 | 48 | 38 | 114 | 104 | 66 | 76 | 72 | 60 |
72 | 70 | 48 | 38 | 48 | 26 | 64 (66) | 48 | 36 | 72 | 60 | n.s. | 28 |
30 | 30 | 28 | 50 | | | | | | | | | |

N

32°cal

Atlas Explorations Ltd (N.P.L)

Yukon Operation

RH 13-28 Mineral Claims

Geochemistry

(Zinc Values)

inches 0 1 2 — centimetres 0 1 2 3 4 5

This reference scale bar has been added to the original image. It will scale at the same ratio as the image, therefore it can be used as a reference for the original size.

YUKON GEOLOGICAL SURVEY

Sampled: J. Harper	N.T.S.: 115-H-9
Date of Survey: Aug 1-8	Fig. No.:
Scale: 1" = 200'	Drawn by: J. Harper

K+E STANDARD @ CROSS SECTION 10X10 TO THE INCH

KEUFFEL & ESSER CO. MADE IN U.S.A.

K+E STANDARD @ CROSS SECTION 10X10 TO THE INCH

KE

Line 9 | Line 8 | Line 7 | Line 6 | Line 5 | Line 4 | Line 3 | Line 2 | Line 1 | Line 8 | Line 9 | Line 10 | Line 11

Line 4: missed (lake); missed (lake); missed (lake)

Line 2: missed (lake)

Line 8: missed

Line 9: missed

Line 5: no value

N

320°

Atlas Explorations Ltd (N.P.L.)
Yukon Operation

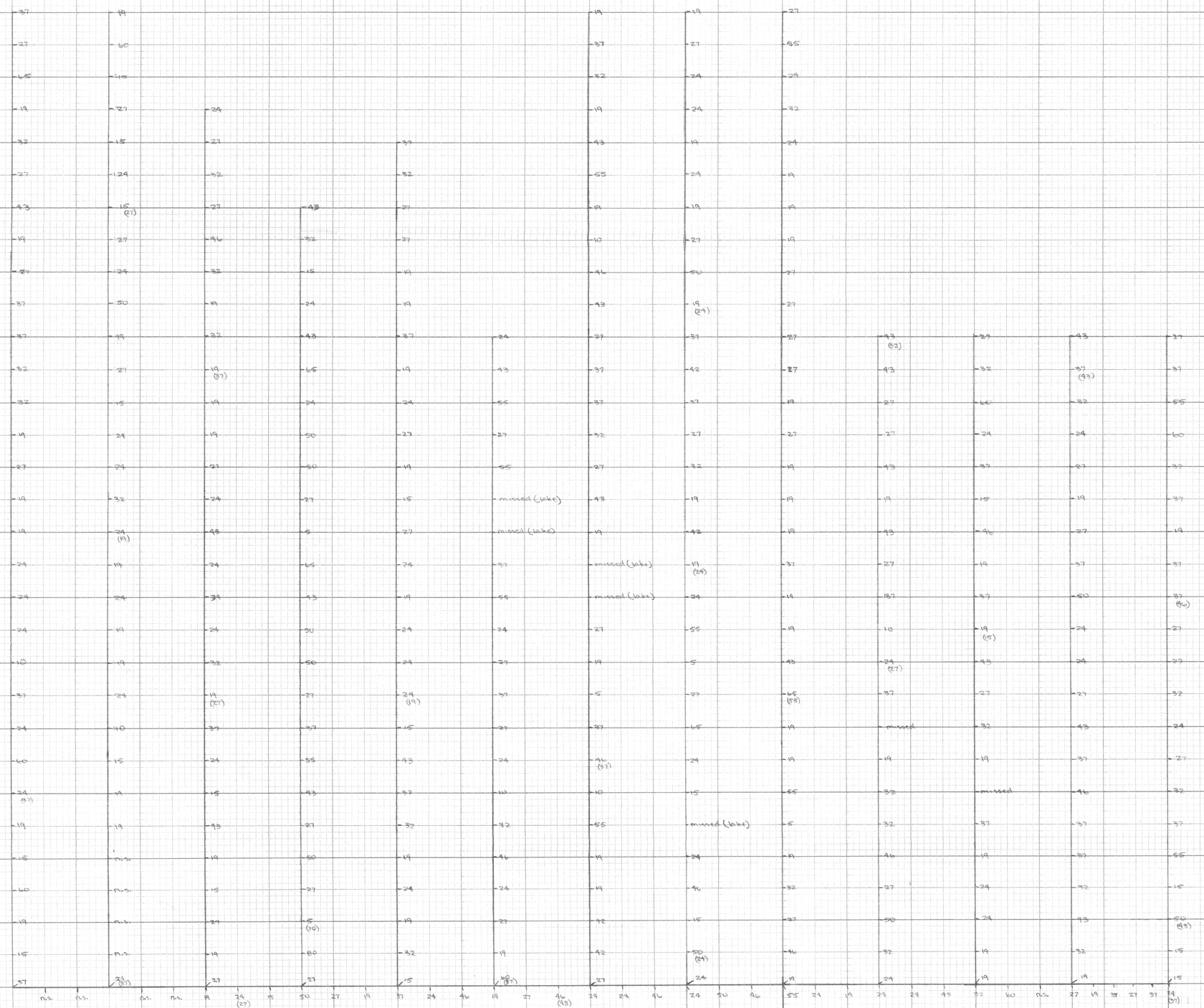
A.H. 13-28 Mineral Claims
Geochemistry
(Copper Values)

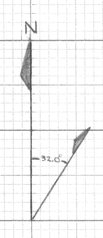
Sampler: J. Harper | NTS 115-H-9
Date of Survey: Aug 19 | Fig No:
Scale: 1" = 200' | Drawn by: J. Harper

inches
centimetres
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.
YUKON GEOLOGICAL SURVEY

KEUFFEL & ESSER CO. MADE IN U.S.A.
K+E STANDARD ® CROSS SECTION 10 X 10 TO THE INCH

Line 13 | Line 12 | Line 7 | Line 6 | Line 5 | Line 4 | Line 3 | Line 2 | Line 1 | Line 8 | Line 9 | Line 10 | Line 11





Atlas Explorations Ltd. (NPL)

Yukon Operation

A. H. 13-28 Mineral Claims

Geochemistry

(Lead Values)

Sampled: Jon Harper | NTS: 115-H-9

Date of Survey: Aug 18 | Fig. No.:

Scale: 1" = 200' | Drawn by: Jon Harper

inches 0 1 2 | centimetres 0 1 2 3 4 5

This reference scale bar has been added to the original image. It will scale at the same ratio as the image, therefore it can be used as a reference for the original size.

YUKON GEOLOGICAL SURVEY

ESSER CO. U.S.A.

K+E STANDARD ® CROSS SECTION 10 X 10 TO THE INCH

KEUFFEL & ESSER CO. MADE IN U.S.A.

K+E STANDARD ® CROSS SECTION 10 X 10 TO THE INCH