336

GEOLOGICAL AND GEOCHEMICAL
FIELD PROGRAM AND
COMPILATION REPORT

ON

ABC, DEF, GHI, AND JKL CLAIMS

(114°17'W, 49°07'N) 82 G //W

SAGE CREEK AREA, B.C.

(FORT STEELE MINING DIVISION)

Mines and Petroleum Resources
ASSISSAENT REPORT
NO.5336 MAD

Field Work

18th, 19th June, 1971 28th June to 5th July, 1971

Report

D. Arscott, P.Eng 15th October, 1971

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INTRODUCTION

GENERAL

A combined geological and geochemical program was carried out for Mark V Mines Ltd. and Thor Explorations Ltd. in the Sage Creek area of the extreme south-eastern corner of British Columbia. The field work took place in June and July, 1971.

In addition, a photogeological study of the claims area has been submitted by Dolmage, Campbell and Associates Ltd.

The results of the field program, of the photogeological study, and of previous work, have been compiled in this report to provide a comprehensive view of all data to date, and formulate an approach for further work.

CLAIMS INVOLVED (16th October, 1971)

ABC	1.	to	4			4
ABC	11	to	34			24
DEF	1	to	24			24
DEF	29	to	40			12
DEF	25	to	28	-		4
DEF	41	to	60			20
GHI	. 1	to	12			12
GHI	19	&	20			2
GHI	39	to	42			4
GHI	55	& 5	6			2
JKL	20	to	51			32
ABC	35	to	5,8			24
					Total	164

LOCATION AND ACCESS

The property is in the Clark Range, 70 miles ESE of Cranbrook, B.C., close to the Alberta and Montana borders.

Two available access routes from Cranbrook are shown in Figure 1. The best route, via Morrissey on highway #3, involves a 3 1/2 hour drive from Cranbrook to the ABC

claims on Sage Creek, and is negotiable by 2-wheel drive vehicles. The dirt road along Sage Creek is servicing an active lumber camp on Ruby Creek (a Sage Creek tributary).

A poor quality trail along Kishenena Creek may be passable by 4-wheel drive, winch equipped, vehicle, late in the season when the creeks are lower.

An Okanagan Helicopters Ltd. helicopter is based in Cranbrook most of the year.

GEOGRAPHY

The region is mountainous, with a local relief in excess of 3000 feet. Timber coverage is generally light, but deadfall and "blow-down" hamper traversing in some areas. Slopes are very steep and cliffs abound.

Outcrop is rare below 4500 feet, but very plentiful above elevations of about 6000'.

The climate is intermediate to dry but snowfall can be very heavy. On June 18th the snowline was at 6500 feet (ASL), probably somewhat lower than usual for that date.

PREVIOUS WORK

In 1968 Akamina Minerals Ltd. conducted a regional prospecting, mapping, and geochemical program on the Grinnel Formation, a section of which underlies the claims under

study (See Fig. 8). Widespread occurrences of copper mineralization were located in the Grinnell and neighbouring formations. Some of these were trenched. Most of the resulting assays appear to have been in the 0.2 to 0.9% copper range, with occassional grab samples assaying up to 5% copper. The mineralization is reported to have occurred as disseminations and fine fracture fillings in quartzite beds, in shales, and to some degree in dykes and quartz vein material.

In 1970, Strato Geological Ltd. carried out reconnaissance silt sampling and soil sampling in the claims area, resulting in a number of soil and silt anomalies. Of particular interest is a band of moderate copper highs, parallel to the strike of the underlying Grinnel Formation in the Kishenena Creek area, covering a total length of 4000 feet. High copper values in silts were found in the areas of claim ABC 17 and DEF 35. The latter are correlated with, and explained by a copper occurrence found during the 1971 program on Grid #2.

1971 PROGRAM

The 1971 work included:

(a) Grid #1 - detail soil sampling and mapping in an attempt to follow the Sage Creek showing downstrike, and to give a geological cross section of the Grinnell Formation.

- (b) Grid #2 Detail mapping and soil sampling in the basin area around claim DEF 35 to explain the high silt values in that area.
- (c) Grid #3 Detail mapping and soil sampling to
 explain the high silt values in the area
 around ABC 17.
- (d) Silt sampling of a Ruby Creek tributary to complete the silt sampling coverage of the claims.
- (e) Reconnaissance prospecting to relocate and examine the showings plotted by Akamina Minerals Ltd.
- (f) An independent photo geological study submitted by Dolmage, Campbell and Associates.

GEOLOGY

REGIONAL

The Grinnell Formation, host to most of the copper occurrences of the area, forms a major shallow syncline some 20 miles across, with its axis very approximately along the B.C./Alberta border (See Fig. 8).

The Formation consists of very distinctive, thinly interbedded red argillite and white to green sandstone or "quartzite", with less common interbedded shales and carbonate sediments. The beds are remarkably uniform along strike and in areas of abundant outcrop individual beds 1 or 2 feet in width may be traced by eye over a distance of several miles.

There has been little deformation of these sediments since their deposition. Strong lineaments are apparent (See Fig. 4) and dragging of some beds along faults is observed locally. Major fault displacements are rare.

Above and below the Grinnell Formation are successions of carbonate sediments, argillites, sandstones, and lavas, which altogether comprise the Purcell Series of Pre Cambrian age.

A number of mineral deposits have been mined within the lower members of the Purcell Series. These include the Sullivan and St. Eugene lead-zinc-silver mines in B.C., and

several in the famous lead-zinc-silver Coeur d'Alene district of Idaho. At present the Kinnecot Copper Company is developing a major medium grade - large tonnage copper deposit at Troy, Montana, on what may be a continuation of the Grinnell Formation.

MAPPING

The detailed mapping emphasized the along-strike consistency of the sediments, and suggests an extremely rythmic history of deposition. Typically, the red argillite constitutes 60% of the outcrop surfaces, with sandstone occupying 30%, in narrow beds 1 to 3 feet wide.

MINERALIZATION

Copper, as chalcopyrite and bornite, is present in widespread small occurrences associated with quartzitic phases of the sediments, and in many cases with the dykes and sills. These occurrences are located mostly within the Grinnell Formation, and to a lesser extent in the Appekunny and Siyeh Formations. The main showings located this year are described as follows: -

(a) On the slope below the lip of the cirque in which Grid #2 lies, is a steep gully bearing mineralized dyke rubble. The mineralization consists of coatings of bornite and specularite on fractures (Samples SAG #28, 10% Cu; SAG #26, 0.76% Cu).

Where seen in place in one small outcrop the dyke, of andesitic composition, is barren, 8 feet wide, strikes $N20^{O}W$, and dips 75^{O} to the E.

- (b) On the E. side of Grid #2, chalcopyrite and malachite occur in quartzite along the rims of black argillaceous pods, and also in dyke material (SAG #27, 0.14% Cu). This showing is interesting in that the mineralized fragments are scattered across a rock slide emanating from a pronounced gulch in the side of the basin, suggesting that the mineralization originates in a fault.
- (c) Veinlets and patches of bornite and chalcopyrite

 (SAG #4, and #9 to #24), are exposed in a 150-foot trench on

 Grid #1, 50 feet from the Sage Creek access road. The highest

 representative sample from this trench yielded 0.4% copper

 over a width of less than 1 foot, with most chip sampling

 results lying in the 0.01 to 0.06% range. Akamina Minerals Ltd.

 recorded assays of 0.14% to 0.5% copper for their "Sage Creek

 Showing", believed to be this trench.

The mineralization is mostly restricted to narrow quartzite bands representing about 15% of the rock in the trench (See Fig. 9).

(d) On the N. bank of Sage Creek, close to a stretch of canyon ESE of Grid #1, copper occurs as specks and streaks of chalcopyrite in quartzite beds. In one case it is associated with a sheared and vuggy quartz fragment apparently derived from a fault.

GEOCHEMISTRY

GENERAL

The previous geochemical results were treated statistically to yield thresholds which varied somewhat with location and with underlying rock type. The arithmetic average for threshold copper in all soils was 40 ppm (parts per million), and for silts 44 ppm. The zinc threshold values for soils and silts were, respectively, 48 ppm and 65 ppm.

This year's results, treated separately (See Fig. 2) gave thresholds of between 35 to 50 ppm copper. Silts were not treated statistically, as there were an insufficient number of samples.

In general, any soil or silt copper-contents in excess of 50 ppm are considered possibly anomalous and worthy of further attention.

SILT SAMPLING

Previous silt sampling by Strato Geological Ltd. outlined anomalous copper values in silts in two main areas, in the vicinities of Grids #2 and #3. The former have been explained by the mineralization in the gulch slide (See (b) under "Mineralization").

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The 1971 silt sampling showed one high, which may well have come from the same source, in this case from the other end of the gulch (See Fig. 3).

SOIL SAMPLING

Grid #1: Except for isolated highs, the main area of interest is a 620 to 730 ppm anomalous area. This may represent the same zone of mineralization present in the Sage Creek showing trench, as the mapping shows a definite NE-SW offset with accompanying fracturing, strongly indicative of a fault. Unfortunately, the anomaly is at the limit of the grid, and open to the SW. Hence there is no way of knowing full size.

Grid #2: Only isolated highs are present. One of these is in the vicinity of the slide mineralization, and presumably results from a piece of mineralized float from the gulch above.

Grid #3: A long linear, moderately strong anomaly of uncertain width trends NW-SE across the grid. It remains unexplained. Abundant outcrop in this vicinity showed only very minor quantities of copper (sample SAG #6).

1970 Soil Sampling: A generally anomalous zone of 4000 feet long in the Kishenena Creek area was impossible to check out because of the helicopter crash and high creek water on the access road.

AIR PHOTO INTERPRETATION

The air photo interpretation, carried out by Dolmage Campbell and Associates Ltd., has emphasized the role of faulting, based on the Kennecot Copper Company's discovery in similar rocks at Troy, Montana.

Three areas of interest are pointed out. In one of these, immediately adjacent to Sage Creek, some copper mineralization has already been located. In another, the Kishenena Area, there are high soil copper contents, as yet unchecked. The third, and perhaps most significant area, is completely unknown.

The full air photo interpretation report is presented in the appendix.

CONCLUSIONS AND RECOMMENDATIONS

To date it has been supposed that the copper mineralization of this area is of possible syngenetic (sedimentary) origin. This seems unlikely because of the frequent association of copper with dykes or sills, and with probable faults.

Attention can now be focused on the following areas:

- (1) The third area suggested by Dr. Campbell in the centre of the property, characterized by intersecting lineaments.
 - (2) The anomalous soil area close to Kishenena Creek.
 - (3) Several areas of dyke and sill frequency, and of faulting, as indicated by the Akamina Minerals Ltd. prospecting, and by the air photo interpretation.

Each of the areas of interest should be mapped in detail and carefully prospected. Where outcrop is less plentiful this should be supplemented by soil sampling. A program involving an expenditure of between \$5,000.00 and \$10,000.00 is envisaged for 1972.

Exploration costs will continue to be high because of the rugged nature of the terrain, but enough encouraging

evidence of copper mineralization has been encountered that the continuation of the program is well warranted.

Cordially submitted

David assett

David Arscott

DOLMAGE CAMPBELL & ASSOCIATES LTD.

CONSULTING ENGINEERS

July 5, 1971

Mrs. Ann Mark, President, Mark V Mines Ltd. (N.P.L.) Suite 301 – 540 Burrard Street, Vancouver 1, B. C.

Dear Sirs:

Re: Flathead Area Claims

On June 16, 1971, my associates, Ray Saunders, submitted to you a letter report covering his photo-geological study of the area of the claims of Mark V Mines Ltd. In southeastern British Columbia. In view of the fact that I was out of town for an extended trip I had instructed Mr. Saunders to make that submission in my absence in order that your staff could take the opportunity of working on the project in the interim.

This present letter report contains our specific recommendations on the project, to which the June \$5, 1971 letter should be attached as the back-up data supplement.

DISCUSSION OF DATA:

The essential data regarding the Kennecott type of copper deposit in the Precambrian sedimentary rocks is presented in the June 16th report; however, there are a few features which I wish to emphasize:

1/ The Kennecott deposit is clearly related to a major regional fault that is tracable for miles across the country as a marked topographic lineament. This steeply-dipping fault trends east-west and cuts the gently-dipping copper-bearing formation at near right angles.

There is a vertical displacement of the copper-bearing formation by the fault but this displacement is generally not of sufficient magnitude to appear clearly in normal airphotos. in the enlargement of the topographic map submitted to us a faint set of lines is presumably the peripheral boundary of the Mark V claim group. According to our plot of the geology to this map the outcrop area of the Grinell Formation lies generally south of the property area, (See Fig. 71-1).

For the purpose of this present report I will assume that the Grinell Formation is covered by the Mark V property. In any case, If the property is north of the outcrop it is on the downdip side and the geological recommendations made herein would still apply but the matter of cover would effect the economics of any deposit that might exist.

Copper mineralization occurring within Grinell Formation rocks has been reported from several localities on the Mark V property but no specific data on such locations has been made available to us.

Obviously, any such occurrences are critically important as additional clues to the isolation of favourable areas for prospecting; therefore, the principal recommendation made in our June 16th letter, namely that the property be prospected to precisely determine the locations of copper mineralization either in situ and/or as float in order to correlate that data with the photo-geology, is strongly re-emphasized if this study is to produce its maximum value.

CONCLUSIONS:

Examination of the enclosed photo-geological map (Fig. 71-1), reveals that three localities on the property are of primary prospecting interest if it is assumed that copper mineralization is most likely to occur within the Grineil Formation where the latter is cut by major faults. The photo-lineaments (possible faults) in these three areas are marked in red on Figure 71-1.

The first area lies astride Sage Creek at the northwest end of the property. Here two east-west lineaments are postulated along the valley of Sage Creek.

The second area lies astride Kishinena Creek at the southeast end of the property where a major east-west lineament is postulated along the creek and, in addition, a cluster of subsidiary lineaments occurs on the southeast side of the major lineament, more or less on the Grinell Formation.

The third area and possibly the most important one, lies west of Ruby Creek, midway between the first two areas described above. In this area the

Grinell Formation is traversed by at least three lineaments, the most dominant of which trends east-west.

in all of the above areas the existence of major east-west lineaments crossing the copper-bearing formation (Grinell) is encouraging for prospecting because these are the known ore control parameters at the Troy deposit to the south in Montana.

Areas of secondary interest occur at the extreme northwest end of the property, near Commerce Creek, where a cluster of weak lineaments crosses the Grinell Formation, and at the extreme southeast end of the property, south of the second target area described above, where a few weak east-west lineaments cross the formations.

RECOMMENDATIONS:

On the basis of the available data and our knowledge of the Troy deposit it is recommended that the above-described target areas be prospected carefully both for sign of copper mineralization as well as for confirmation of the existence of faults. If the results of this work are positive the particular areas should be comprehensively soil sampled for copper and any anomalous areas be surveyed by 1.P.

The entire Grinell Formation on the property, exclusive of aforementioned target areas, should be reconnaissance prospected and silt samples taken from all streamsdraining the formation. Any positive results should be followed up by soil sampling and detailed prospecting in the specific areas.

Those parts of the property that fail to produce any positive results to the first phase investigations described in the preceding two paragraphs should be dropped until such time when a deposit is found in the area, at which time it may be worthwhile to restake for protection.

Any present indication of copper mineralization within the aforementioned photo-geology target areas will add considerable credence to the postulated potential of such targets.

Respectfully submitted,

DOLMAGE CAMPBELL & ASSOCIATES LTD.

Douglas D. Campbell, P.Eng. PhD.

DDC/pm

MU 1-2345

DOLMAGE CAMPBELL & ASSOCIATES LTD.

CONSULTING ENGINEERS

June 16, 1971.

Mark V Mines Ltd. (N.P.L.) Suite 301 – 540 Burrard Street, Vancouver, B. C.

Dear Sirs:

Re: Flathead Area Claims

As requested, we have completed a photo-geological study of an area in southeastern British Columbia encompassing the claims of Mark V Mines Ltd. (N.P.L.), and the adjoining claims of Ann Mark, Alex MacGillivary, and Thor Explorations Ltd. (N.P.L.). All data received for the study was obtained from Mr. B. S. Imrie, P. Eng.

Copper mineralization as chalcopyrite, bornite and chalcocite, has been found to occur in quartzites within the Grinell Formation in southeastern British Columbia and in equivalent rocks on Montana, U. S. A. The most significant discovery to date in this setting is Kennecott's Spar Lake deposit near Troy, Montana. A number of geologists consider this deposit and similar mineral occurrences to be syngenetic in origin. However, others believe differently and suggest the mineralization may in fact be epigenetic. The latter opinion suggests that the mineralization is of hydrothermal origin, being introduced into the host quartzites along faults and associated fracture zones. Regardless of which theory is (more) correct, a knowledge of fault structures cutting the host formation should be quite useful in planning an exploration program. Remobilization and concentration of minerals along fractured zones is not uncommon in syngenetic deposits, and fracture zones (and thus faulting) are virtually essential for the formation of epigenetic deposits. It is for these reasons that the photo-geological study was undertaken.

Results of the study are shown on figure 71-1, the base of which is a government topographic map enlarged from 1:50,000 to approximately 1 in. = $\frac{1}{4}$ mile (1:15,840). Also shown on this figure are two major east-west faults mentioned in the literature

supplied, and the Precambrian Grinell Formation which is considered the favourable host for copper mineralization in the area. The outline of the Grinell Formation, obtained from Geological Survey of Canada map 35–1961 (1 in. = 2 miles), is somewhat generalized because of the scale of the source data. Property boundaries and mineral occurrences have not been shown because they could not be accurately transferred from the small scale maps currently available for study.

Bedding attitudes are plotted where they represent a general attitude in the immediately surrounding area. The direction but not the magnitude of the dip is indicated. In a few locations the direction of dip could not be determined and has therefore not been shown. In general, the Precambrian sedimentary formations in the area exhibit comparatively regular attitudes; broad, gentle folding or warping is the rule rather than tight folding and associated faulting. Individual, but not specific formations can be locally distinquished. However, except for making some changes in the outline of the Grinell formation from that shown on map 35–1961, individual beds and/or formations have not been shown on figure 71–1 because of the questionable value of this information to the present study.

Bedding attitudes proved to be of little help in determining fault structures from the air-photographs. There are no pronounced changes in general strike to suggest major faults (such as along Sage Creek), nor are there more than a few instances where obvious offset-bedding indicates more local faulting.

Possible fault or shear structures have been determined for the entire area covered by the air-photos within the map strip provided, while a more detailed study has been made along the Grinell Formation. All of the structural features recorded are represented by lineaments and only rarely by off-setting features truly representative of faulting. However, virtually all potential faults shown on figure 71-1 are at least somewhat transgressive to the sedimentary bedding. This suggests that if, in fact, a lineament exists (some are quite vague) it quite probably represents a fault or shear zone and is not an original depositional feature. The validity of the lineament is indicated by the length of the dashes and lines: short dashes-vague; continuous lines-well defined. The strength of the causative structure can only be inferred from the length and surface expression of the lineament. The longer, more well defined lineaments probably represent relatively larger structures.

Recommendations for continued exploration of the claim groups must be of a general nature until such time as all pertinent data is available for assessment.

Consequently, it is suggested that results of the present study be integrated with other

available data (detailed geological mapping, mineral occurrences, claim boundaries, geochemistry, etc.) to produce a composite map of the area. Hopefully, it will be possible from studying such a map and related data, to determine local areas of greatest mineral potential within the total claimed area. Future fieldwork can then be concentrated in these areas, thus achieving lower costs for maximum information.

Yours very truly, DOLMAGE CAMPBELL & ASSOCIATES LTD.

C. R. Saunders, P.Eng.

CRS/pm



1500 PEMBERTON AVENUE, NORTH VANCOUVER, B.C. PHONE: 988-5315 TELEX: 04-54554

CERTIFICATE OF ASSAY

то	D. Arscott	No: A21-301	 ***	
- •	301 - 540 Burrard St.	Rec'd: June Completed:		

Vancouver, B.C.

I hereby certify that the following are the results of assays made by us upon the herein described

0re

. M.	ARK	KED	G	OLD	SILVER	Cu							TOTAL VALUE
			Ounces per Ton	Value per Ton	Ounces per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent	PER TON (2000 LBS.)
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SAG SAG SAG SAG	1 2 3 4		Trace Trace Trace 0.005		0.02 0.02 0.02 0.80	0.06 0.02 0.17 1.46							
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NOTE:
Rejects retained two weeks
Pulps retained three months unless otherwise arranged.

Gold & Silver values reported on these sheets have not been adjusted to compensate loses and gains inherent in fire assay methods.

Gold calculated at \$.....

Registered Assayer, Province of British Columbia

BONDAR-CLEGG & COMPANY LTD.

1500 PEMBERTON AVENUE, NORTH VANCOUVER, B.C. PHONE: 988-5315 TELEX: 04-54554

CERTIFICATE OF ASSAY

TO D. Arscott

Report Number A21-447

302 - 540 Burrard St.

Samples Received July 30, 1971

Vancouver 1, B. C.

Results Completed August 4, 1971

I hereby rertify that the following are the results of assays made by us upon the herein described

Ore

samples.

MARKED	GOLD	SILVER	Pb	Zn	Cu					TOTAL VALUE
0.00	Ounces Value per Ton	Ounces per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent	PER TON (2000 LBS.)
Ore C A - 4 7 8 9 10 11 12 13 B 13 C SAGF 6	0.005 Trace	0.02 Trace Trace Trace Trace Trace Trace Trace Trace Trace	0.02 0.03 0.01 0.01 0.02 0.02 0.01 0.01	0.01 0.02 L0.01 L0.01 0.01 0.01 0.01 L0.01	0.02 L0.01 L0.01 L0.01 L0.01 0.02 L0.01 L0.01 L0.01					
9 10 11 12 13 14 15 16 17 18					0.01 0.01 L0.01 L0.01 0.06 0.02 0.04 L0.01					

NOTE:

Rejects retained two weeks Pulps retained three months unless otherwise arranged. Gold & Silver values reported on these sheets have not been adjusted to compensate loses and gains inherent in fire assay methods.

Gold calculated at \$

per ounce

Esam anth

Registered Assayer, Province of British Columbia

To: AP	100	tt	:	
PAGE No	2			

BONDAR-CLEGG & COMPANY LTD.

REPOR No.

DATE: August 4, 1971

CERTIFICATE OF ASSAY

MARKED	GO	LD	SILVER	Pb	Zn	CH					TOTAL VALU
	Ounces per Ton	Value per Ton	Ounces per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent	PER TON (2000 LBS.)
Ore SAG# 19	-		-	-	•	0.02					
20	-		-	-	•	0.40		•	*		
21			-	-	_	0.01 L0.01					
23	-		-	-		LO.01					·
24	•		-	-	-	LO.01					
25	Trace		Trace	•	. •	0.76					
20	Trace Trace		0.15 Trace	-	_	0.76					
20 21 22 23 24 25 26 27 28 29	.005		2.6	•	-	0.14 10.00 0.34					
29	Trace		0.02	•	• 📻 📜	0.34					
				: 1							
L means less than.											
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								:			: 1
		. *						Ì			
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Registered Assayer, Province of British Columbia

mal = malachite
py. = pyrite
cp. = chalcopyrite
bo. = bornite

ROCK SAMPLES DESCRIPTION

No.	Type	Location	Description	% Cu	oz/ton A
AG #1	Grab	Sage Creek Canyon	Traces mal, in greenish grey shale	0.06	0.02
AG #2	11	n	Banded quartzite; traces of py.	0.02	0.02
AG #3	u	1	Quartz, 2" wide, striated; splashes of cp.	0.17	0.02
AG #4	11	Grid #1 (trench)	Quartzite, bo and mal.	1.46	0.80
AG #6		Grid #3, 8+00NW,4+20NE		4 0.01	Trace
AG #9	Chip	Grid #1 (trench)	Quartzite bands	0.01	_
10	, n	H	u de la companya de l	0.01	_
11	ń	H	u de la companya de l	<0.01	
12	11	n ,		< 0.01	_
13	ii.	"		< 0.01	_
14	*1	"	u	0.06	
15	11	"	•	0.02	_
16	11	"	.	0.04	_
17	11	n		C 0.01	_
18	"	•		0.06	-
19	11	11		0.02	_
20				0.40	-
21				0.01	_
22	98	v		<0.01	
23	11	11 · · · · · · · · · · · · · · · · · ·		< 0.01	_
24	н		11	< 0.01	_

·	<u> </u>				
No.	Type	Location	Description	% Cu	oz/ton Ag
SA G #26	Grab	Below basin of	1/16" coatings of bo. on	0.76	0.15
		Grid #2 ,	fractures of andesitic		
		50' below	dyke debris		
	•	silt station ST-2-1200,			
		in steep			
		gully			
SAG #27	11	100'S of L12,	Mal, cp in quartzite on	0.14	Trace
		100E on Grid #2 , below	rims of argillite streaks and pebbles;		
		qulch	scattered in slide		
			debris		
SAG #28	11	in the state of th	Mal., bo. in dyke frag-	10.0	2.6
			ments		
CAC #20	41	U		2.24	
SAG #29			Lumps of cp in sheared quartzite	0.34	0.02
					I de la

 $\underline{\underline{\text{Note:}}}$ Other "SAG" numbered samples were retained as specimens only.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C., CANADA TELEPHONE 604-988-2172

GEOCHEMICAL ANALYTICAL REPORT

REPORT No.	71-13-002	DATE	July 19, 197	<u> </u>
SAMPLES SUBMITTE	D BY Dave Arsco	COMPANY	Dave Amscott	<u>, , , , , , , , , , , , , , , , , , , </u>
HIPPED VIA Nes	tern Parcel Servi	COS FROM		
EPORT ON 320	samples for Cu	DATE SAMP	LES ARRIVED July	9, 1971
		* * *		
OPIES OF THIS	REPORT SENT TO:		TRANSMITTED BY:	
) Mr. David	Arscott		Me11	
#301 - 54	O Burrard Street			ngset ² Committee of the Committee
				100 100 100 100 100 100 100 100 100 100
	R GROUND TO -60	* *		
NAL WOLUME	10 ml	ALIQUO	OT USED	
		* * *		
ETHOD OF AN	ALYSIS: Instrume	ntal - Atom	le Absorption	· · · · · · · · · · · · · · · · · · ·
(TRACTION:	Hot HClO	, _ HNO, D1;	gestion	
r rozio) i	Techtron	AAL and AA		
ETECTION:				-
	NMENT: (a) PREPARED S		filed	3 1
AMPLES ASSIG			discarded	
	(b) KEJECIS:			
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		* * *		
	P. M.			·····
JPERVISING CHEN	MIST L. Nicol	CHECKED B	Y C.CLC	
		COSTS:		
			HIPPING CHARGE	\$ \$ 64.00
			AMPLE PREPARATION NALYSIS	\$ 320.00
			THER	
			O T A L	\$ 384.00
		K	JIAL	7. / 4.4.4.4.

1521 PEMBERTON AVENUE

NORTH VANCOUVER, B.C. CANADA 71-13-001

TELEPHONE 604-988-2172

COMPANY Dave Arscott

REPORT No. PAGE 1 OF 9

MARKING	Cu		Rema	rks	MARKING	Cu	
1	23						
	25				DO - 1+00 NE	21	
	30	200			1+50	15	
	26	i i i i i i i i i i i i i i i i i i i			2+00	18	
5	32				2+50	24	
6	36	10		A I	3+00	15	
	25				3+50	35	
	38				4+00	34	
9	50	B17.			5+50	31	
10	36			3	6+00	36	
	44				6+50	40	
12	32		-25	nesh	7+00	32	
	52	/			7+50	22	
	50	?		.:	8+00	14	
	45		-50	mesh	8+50	10	
19	46				9+00	11	
20	76	12-7-			9+50	17	
R - 21	30				DO - 10+00NE	30	
Grid # 2	9				DANE - 0+00	9	
DO - 0+50 NE	20				D4 NE - 0+50	15	

1521 PEMBERTON AVENUE

NORTH VANCOUVER, B.C. CANADA 71-13-002

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COMPANY Dave Arscott REPORT No. PAGE 2 OF 9

MARKING	Cu			MARKING	Gu		
D4 NE - 1+00	15						
1+50	17			DS NE - 5+50(B)	13	***************************************	
2+00	13		* 1	6+00	45		
2+50	14			6+50	24		
3+00	16			7+00	33		
3+50	23			9+00	24		
4+00	50			D8 NE - 10+00	21		
4+50	31			D12 NE - 0+00	25	-	
6+50	18			0+50	31		
7+00	35			1+00	29		
7+50	25			1+50	23		
8+00	23			2+00	15		
8+50	14	2 12		2+50	15		
9+50	15			3+00	25		
D4 NE - 10+00	20			3+50	13		
D8 NE - 3+00	20			4+00	9		
3+50	13		in the second	5+00	18		
4+00	13			5+50	34		
4+50	12			6+00	20		
D8 NE - 5+50(A)	12			D12 NE - 6+50	19		

REMARKS

Marked (A) & (B) in lab.

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Dave Aracott

COMPANY

REPORT No. PAGE 3 OF 9

MARKING	Cu	:		MARKING	Cu			- -
D12 NE - 7+00	19							
7+50	8			L ON - 2+00 W	6		-	
8+00	10		÷	2+50	5	<u> </u>		
9+00	12			3+00	4			
9+50	15		".	3+50	4			 .
D12 NE - 10+00	19			4+00	10			
D16 NE ~ 0+00	9			4+50	6	-		<u> </u>
2+50	12			4+90	11			· · · · · · · · · · · · · · · · · · ·
3+00	10			5+50	11			
3+50	17			6+00	12			
4+00	23			6+50	12			
4+50	44			7+00	25			1
6+00	26			7+50	11		,	
8+00	25			8+00	15			
8+50	25			8+50	11			
D16 NE - 9+50	25			9+00	6		-	
L ON - 0+90	30			9+50	7			
0+50 ¥	54			10+00	44			
1+00	22	,		10+50	5			
L OM - 1+50 W	25	-		L OW - 11+00 W	7			,

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COMPANY Dave Arscott

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MARKING	Cu		The STA	MARKING	Cu	
L ON - 11+50 W	18					
12+00	50			L OS - 4+00 E	19	
12+50	15	147 J. J.		4+50	16	
13+00	16			5+00	14	
13+50	17			5+50	13	
14+00	9	11.5		6+00	15	
14+50	9			6+50	14	
L ON - 15+00 W	9			7+00	19	
LO NW - 2+50 NE	21	1 1/1 1		7+50	25	
3+00	26			8+50	18	
3+50	47			9+50	15	
4+00	26			10+50 E	22	
4+50	190	:		1+50W	10	
LO NW - 5+00 NE	16			2+00	12	
L 05 - 0+00	24			L OS - 2+50W	11	
1+50E	13			L 4N - 1+00W	14	
2+00	13				13	
2+50	14		1.7		13	
3*00	1.5	:			13	
L OS - 3+50 E	15			L AN - 5+00W	16	

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71-13-002

COMPANY Dave Arecott REPORT No. PAGE 5 OF 9

MARKING	Cu			MARKING	Cu		
L 4N - 5+50 W	25						
6+50	15			L4 NW - 4+00 NE	30		
7+00	9			14 NW - 5+00 NE	23		
7+50	15			14 S - 0+00	21		
8+00	25			0+50 W	93		
8+50	13			1+00	38		
9+50	19			1+50	10		
10+50	14			2±00	17		
11+50	16		V V 4	2+50	75		
12+00	21			3+00	14		
12+50	74			3+50	15		
13+00	28			4+00	15		
13+50	33			4+50	5		
14+50	16			5+00	14		
L AN - 15+00W	730			5+50	13		
L4 NW - 1+00 NE	17			6+00	12		
2	73	\$		6+50	8		
2+50	42			7+00	4		
3+00	53			7+50	10		
L4 NW - 3+50 NE	95			LA S - 8+00W	14		

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MARKING	Cu			MARKING	Cha	24.	
L4 S - 8+50 W	9						
9+00	13			Le N - 5+00 W	14		
9+50	11			6	31		
10+00 W	15			 7	14		
0+50 E	26	1.1.1		 8	67		
1+00	43			9 (A)	41		
3+50	17			9 (B)	15		
5+00	35			9+50	7		
5+50	19			10+50	18		
6+00	12	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		11+00	25		
6+50	24			11+50	21		
7+00	18			12+00	12		
7+50	19			12+50	15		
8+50	19			13+00	15		
9+00	20			13+50	15		
L4 S - 10+00 E	35			ZKO T			
L8 N - 1+00W	43			14+50	24		
	25			LS N - 15+50 W	620		
3	16		,	BL 8	23		
LS N - 4+00 W	19			L8 + 50 B	20		

REMARKS

Marked (A) & (B) in lab.

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COMPANY Dave Arscott REPORT No. PAGE 7 OF 9

MARKING	Cu		Re	oerks	MARKING	Cu		
L8 + 100 E	22							
150	51		-50	mesh	L12 + 200 E	26		
200	23		7#	72	250	47		
250	22				300	16		
300	21				350	16		
350	20				L12 + 400 E	11		
400	22				L12 NW - 3+00NE	30		
L8 + 450 E	16				L12 NW - 3+50NE	95		
L8 NW - 0+00	78		<u>.</u> 2		L12 N - 6+00W	14		
2+60 NE	40				6+50	20		
3+00	92				7+00	25		
3+50	52				7+60	15		
4+00	48			3	8+00	11		
5+00	31				8+50	10		
5+50	20				9+00	11		
L8 NW - 6+00 NE	23				9+50	10		
BL - 12	15	2			10+00	8		
L12 - 50 B	50				10+50	23		
100	19				11+00	17		
L12 - 150 B	29				L12 N - 11+50W	75		

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COMPANY

Dave Arscott

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MARKING	Cu			MARKING	Cu		Rema	rks
L12 N - 12+50 W	25							
L12 N - 14+50 W	24			L16 N - 11+00 W	8			
BL - 16	14			11+50	8			
L16 - 50 B	19			12+00	10			
100	23			12+50	15			
150	15			13+00	16			
200	25		8	13+50	24			
300	25			L16 N - 14+50W	85			
350	26			L16 NW - 2+50NE	31		-50	mesh
L16 - 400E	30			3+00	24			
L16 W - 4+50 W	17			T16 NA - 7+00NE	94			
5+50	13			BL20 - 50 E	25			
6+00	9			100	20			
6+50	8			150	63			
7+00	12			BL20- 250 B	36			
7+50	13		2 de 1	L20 - 300 E	15			
8+00	61			L20 - 350 E	22	\$ 100 miles		
8+50	10			BL20 + 50 S	16			
9+50	9			L20 NW - 2+00NE	28			
L16 N - 10+50 W	9			L20 NW - 2+50NE	38			

Vancouver Geochemical Laboratories Ltd.

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COMPANY Dave Aracott

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MARKING	Cta				MARKING		
L20 NW - 4+00NB	65						
4+50	71						
L20 NW - 5+50NE	97						
BL - 21	21						
21+00	16						
22 S	15			3			
22+50 S	13						
BL - 23 S	12						
8M - 0+00 D	24						
				2			
		. Voj.					
				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
			. '				
				k.			

REMARKS

SHEET

SHE	ET	NO:	 <u> </u>

SAMPLER:_

PROJECT : SAGE

AREA : CRANBROOK

SAMPLE NO. and LOCATION	COLOUR	COMPOSITION	HORIZON	DEPTH	UPSLOPE AZM.	GRAD.	REMARKS
GRID#1 LINE ON							
0+00	LT. BRN	GRAVEL	В	10"	NE 25	4.	OPEN AREA : SAMPLE LIKE SMALL PK SHAL
0+50 W	LT BRN	MEDIUM	_B_	6"	NE 25°		OPEN AREA WITH OUTCROPS
1+00 W	MED BRN	MED/COARSE	В	2"	NE 25		OPEN AREA WITH OUTCROPS
1 +50 W	MED BRN	MED COARSE	В	4"	NE 25°		OPEN AREA
2+00 W	GREY BUFF	MEDIUM	В	6"	NE 25		OPEN AREA
2+50 W	GREY BUFF	MEDIUM	В	4"	NE 25		WOODED AREA
3+00 W	GREY BUFF	MEDIUM	В	4"	NE 20"		WOODED AREA
3+50 W	GREY BUFF	MEDIUM	В	4 "	NE 20		WOODED AREA
4+00 W	GREY BUFF	MEDIUM	В	4 *"	NE 20		WOODED AREA
4+50 W	GREY	MEDIUM	В	6"	NE 40		
5+00 W	GREY	MEDIUM	В	6"	NE 40°		BANK 5' ABOVE SOME SAND IN SAMPLE
5+50 W	RED BROWN	MEDIUM	В	6"	SW 10'		BANK 10' ABOVE FOLDING NAW >SSE
6+00 W	LT. BUFF	FINE	В	6"	N5°		WIND FALL AREA SOME SAND IN SAMPLE
6+50 W	GREY BUFF	MEDIUM	В	6"	N 5°		WINDFALL AREA
7+00W	LT. BVFF	FINE	В	6"	N 5°		WINDFALL AREA
7+50 W	LT BUFF	FINE	В	6"	N 5'		WINDFALL AREA
8+00 W	LT. BUFF	FINE	В	6"	N 5°		WINDFALL AREA
8+50W	LT. BUFF .	MEDIUM	В	6"	N5°		WINDFALL AREA
9+00W	GREY BUFF	FINE	В	<u>'4''</u>	N 5°		WOODED AREA
9 t 50 W	LT BRN	MEDIUM	В	6"	N 10°		DRAINAGE ONLY FAIR
10+00W	SILT SAMI	PLE FROM SMA	17	CREEK			FLOWING NW - SE - COARSE MATERIAL

SHEET

SHEET NO: 2

SAMPLER:_

PROJECT: SAGE

AREA : CRANBROOK

DATE :___

SAMPLE NO. and LOCATION	COLOUR	COMPOSITION	HORIZON	DEPTH	UPSLOPE AZM.	GRAD.	REMARKS
GRID* I LINE ON							
10+50 W	GREY BUFF	MEDIUM	В	6"	N5°		WOODED AREA
11+00 W	GREY BUFF	MEDIUM	В	4"	145		WOODED AREA
11+50 W	LT BRN	MEDIUM	В	4"	N 10°		OPEN AREA
12+00 W	LT. BRN	MEDIUM	В	i4 *	N10°		OPEN AREA
12+50 W	LT. BRN	MEDIUM	В	4"	Nρ°		OPEN AREA
13+00 W	LT. BAN	MEDIUM	В	<u>' ዛ "</u>	N 10°		OPEN AREA
13150 W	LT. BRN.	MEDIUM	В	<u> 4"</u>	N 10.		OPEN AREA
14+00 W	GREY BUFF	CLAY LIKE	В	4.	N 10°		WOODED AREA
14+50 W	GREY BUFF	CLAY LIKE	В	ዛ"	N 10'		WOODED AREA
15t00 W	GREY BUFF	CLAY LIKE	В	4"	N10°		WOODEN AREA
GRID LINE 4N							
1+00W	LT RED BRN	GRAVEL	В	7"	N25"		OVER 80% GRAVEL CONTENT
2+00W	LT BRN	GRAVEL	В	6"	NE 20		OVER 75% GRAVEL
3100W	LT. BRN	GRAVEL	В	5"	N 20°		75% GRAVEL
4100W	LT GREY	SILTY	В	4"	N 20°		SOME GRAVEL
5100W	LT RED BRN	SILTY	В	3"	N25°		SOME GRAVEL
5150W	LT. BRN	FINE	В	4"	N.5°		FLAGGING * CRI-65
6+00 W	NO SAMPLE						CREEK AT 5+70 RUNNING SE
6+50 W	LT BRN+GREY	SILTY	В	4"	w 5°		60% GRAVEL
7+00W	LT GREY	SILTY	В	6"	NW 50		60% GRAVEL
7+50W	LT GREY	SILTY	ß	6"	N50		SOME GRAVEL

SHEET

SHEET NO: __3_

SAMPLER:

PROJECT : SAGE

AREA : CRANBROOK

DATE :_

SAMPLE NO. and/or LOCATION	COLOUR	COMPOSITION	HORIZON	DEPTH	UPSLOPE AZM.	GRAD.	REMARKS
GRID # LINE 4N				·			
8+00W	LT BRN	SILTY	В	5 '	NW5°		MOSTLY SILT CONTENT
8+50W	LT BRN	SILTY	В	8"	NW5°		MOSTLY SILT CONTENT
9+00 W	LT GREY	SILTY	В	6 "	W 15"		50% GRAYEL CONTENT
10+00 W	NO SAMPLE						ROCK AREA
10+50W	MED GREY	ZIFLA	A	3"	W 20°		SOME HUMUS AND GRAVEL
11+00 W	NO SAMPLE						OUTCROP
11+50W	MED BRN	YTAIS.	В	3"	W 20°		50% GRAVEL CONTENT
12+00W	DARK BRN	SILTY	В	5"	w 25°		SOME HUMUS
12+50W	DARK BRN	SILTY	В	6"	W 25°		SOME GRAYEL
3t∞w	MED BRN	SILTY	В	4"	NW25'		
13t50W	DARK BRN	FINE	A	4 "	NW25"		MOSTLY HUMUS
14+00 W	NO SAMPLE						CUT CROP
14+50W	LT BRN	SILTY	В	3″	NW20°		
15 too W	DARK GREY	FINE	A	2"	NW 20°		MOSTLY HUMUS
GRIO " LINE 8N							
0100	MED BRN	FINE	В	10"	NE 30'		*
1+00W	DARK BRN	FINE	A	ප "	NE 45-0		40% GRAVEL, 30% SAND, 30% SILT.
2 toow	RED BRN	MEDIUM	A	6"	NE 40°		SLIDE AREA - RUBBLE POOR SOIL CONTENT
3100W	LT. BRN RED	FINE	В	5"	NE 35°		GRAVEL AND SAND - SOME VEGETATION
4+00W	MED RED BRN	MEDIUM	В	10"	NE 25°		90% GRAVEL 10% SOIL
5+00 W	LT GREY BRN.	MEDIUM	13	8"	N 20°		50% GRAVEL 50% SOIL - CREEK@ 6+30W

SHEET

SHEET NO: 4

PROJECT : SAGE AREA : CRANBROOK DATE :____ SAMPLER:_

SAMPLE NO. and for LOCATION	COLOUR	COMPOSITION	HORIZON	DEPTH	UPSLOP€ AZM.	GRAD.	REMARKS
GRID#1 LINE 8N	g.						
6+00W	RED GREY	MEDIUM	В	4"	N 20°		60% GRAVEL, 40% SOIL
7+00 W	LT. GREY	MEDIUM	В	10"	SW 25°		50% CRAVEL, 50% SOIL - SILT FLAG # CRI 61
8+00 W	LT BROWN	MEDIUM	A-B	6"	NW5°		70% SCIL 30% SAND - SILTY SOIL
9+00W	MED BRN	FINE	A	6"	NW 10°		90% HUMAS
9150W	LT BRN	MEDIUM	В	4"	NW 10°		60% SOIL, 40% GRAVEL
10100W	LT. BRN	MEDIUM	В	4"	NW15°		60% Soil, 40% GRAVEL
10+50W	LT. BRN	MEDIUM	В	3"	NW20°		60% SOIL, 40% SAND
11+00W	DARK BAN	SILTY	A	4"	NW20°		SOME HUMUS CONTENT
11+50W	LT. BRN	YTAIS	В	7"	NW 20°		SOME GRAVEL CONTENT
12+00 W	LT. BRN.	SILTY	В	6 "	NW20°		SOME GRAVEL CONTENT
12150W	LT GREY	SILTY	В	4"	NW15°		VERY FINE - SILTY
13+00W	MED BRN	MEDIUM / FINE	В	6"	NW 10°		SOME GRAVEL and SILT
13+50 w	LT BRN	FINE	В	7 ″	NWIS		SOME GRAVEL and SILT
14+00W	NO SAMPLE						
14+50W	LT. GREY	MEDIUM	В	5"	NW 5°		40% BRAVEL
15+00W	MED GREY BRN	SILTY	В	6"	NW 10°		
GRID#1 LINE 12 N							
t 00 W	NO SAMPLE						SLIDE AREA
2tod W	No SAMPLE						SLIDE AREA
3+00W	NO SAMPLE					÷	SLIDE AREA
4+00W	NO SAMPLE						SLIDE AREA

SHEET

SHEET NO: 5

SAMPLER:

PROJECT : SAGE

AREA : CRANBROOK

DATE :__

SAMPLE NO. and LOCATION	COLOUR	COMPOSITION	HORIZON	DEPTH	UPSLOPE AZM.	GRAD.	REMARKS
GRIO# 1 LINE IZN							
5+00 W	NO SAMPLE						SLIGE AREA
6+00W	LT GREY	FINE	В	_5	14M50		SIATY
6+50 W	RED BROWN	FINE	В	5	NW 25"		SOME C-RAVEL and SILT
7+00 W	LT. RED BRN	FINE	В	4."	NW40°		CREEK & 7+40W RUNNIN NW -SE WITH SIL
7+60 W	LT BRN	FINE	В	<u>3″</u>	NW140"		SILTY
8+00 W	BEIGE	FINE	В	4 "	SW 35"		SILTY
8+50 W	BEIGE	FINE	В	4"	SW35		SOMIE GRAYEL and SILT
9+00 W	REIGE	FINE	B	6"	SW 250		SOME GRAVEL and SILT
9+50 W	BEIGE	FINE	В	6"	SW 25"		SILTY
10+00 W	BEIGE	MEDILM	В	5"	NW 15"		40% GRAVEL
10+50W	BEIGE	MEDIUM	В	6."	NW 15		SOME CLAY CONTENT
IItoo W	MED RED BRN	FINE	B	4"	NW 151		VERY FINE SILT
11+50W	DARK GREY	EINE	В	7″_	NWIO		SOME CLAY CONTENT
12 too W	NO SAMPLE						SLIDE AREA
12150 W	MED. BRN	MEDIUM	В	_5"_	NW 25°		SOME GRAVEL and SILT
13+00 W	NO SAMPLE	<u> </u>					OUT CROP
13+50W	NO SAMPLE						CUT CROP
14+00 W	NO SAMPLE			· · · · · · · · · · · · · · · · · · ·			OUT CROP
14750W	MED BRN	FINE	A	6"	NW25°		MOSTLY ORGANIC MATERIAL

GEOCHEMICAL SAMPLING DATA SHEET SHEET NO: 6 PROJECT : SAGE AREA: CRANBROOK DATE: SAMPLER: UPSLOPE SAMPLE NO. and/or LOCATION COLOUR COMPOSITION HORIZON DEPTH GRAD REMARKS AZM. GRID" | LINE 16 N 1 toow NO SAMPLE ORGANIC MATTER ORGANIC MATTER - C/P @ 130'+ 1+50 W 1+50W NO SAMPLE 1+00 VV NO SAMPLE ORGANIC MATTER 2+50VV NO SAMPLE ORGANIC MATTER 3+00W NO SAMPLE ORGANIC MATTER ORGANIC MIATTER 3+50W NO SAMPLE W0014 NO SAMPLE ORGANIC MATTER 75 /2 GRAVEL 4+50W LT GREY N 20 MEDIUM В NO SAMPLE ROCK SLIDE 5+00 W 50% GRAYEL 5+50W MED BRN MEDIUM B N 20° 40% GRAVEL 6+00W MED BRN MEDIUM 13 N 20° 40% GRAVEL N 20 LT BRN 6+50W MEDIUM 4 " N 40° 50% GRAVEL 20% CLAY 7+00 W LT GREY MEDIUM 50% GRAVEL 20% CLAY N 40° 7150W MED BRN MEDIUM A/B 8+00W DARK GREY MEDIUM N40 SOME CLAY and ORGANIC MATERIAL 75% GRAVEL - CREEK @ 8+20 RUNNING NW-SI NW 40° 8+50W BEIGE MEDIUM 13 9+00 W NO SAMPLE ORGANIC MIATERIAL FINE NW 45° 9+50W LT BRN A/B SILT and HUMUS 10+00W NO SAMPLE OUTCROP 50% GRAVEL - SOME CLAY W 20' 10+50W MED GREY MEDIUM B

13

W 20°

50% GRAVEL - SOME CLAY

1 100

11 +00W

BEIGE

MEDIUM

SHEET

SHEE	T NO	١.	 	-

SAMPLER:_

PROJECT : SAGE

AREA : CRANBROOK

SAMPLE NO. and LOCATION	COLOUR	COMPOSITION	HORIZON	DEPTH	UPSLOPE AZM.	GRAD.	REMARKS
GRID # LINE 16 N							
11+50 W	REIGE	FINE	В	5 "	NW 20°		FINE SILT
12 t 00 W	LT BRN	MEDIUM	В	6"	NW25°		30% GRAVEL
12t50W	LT BRN	MEDIUM	В	3"	W 25°		50% GRAVEL
13+00W	MED BRN	MEDIUM	В	3"	W 30°		50% GRAVEL
13t50W	BEIGE	FINE	B	5"	W 25°		SILTY
14+00W	NO SAMPLE						ORGANIC
14+50W	LT BRN	FINE	В	6 "	W 15°		SOME CLAY CONTENT
GRID* I LINE ON							
O+SONE	LT. BRN	MEDIUM	В	6"	NW 30°		40% GRAVEL, 20% CRUANIC
1+00 NE	LT. BRN	MEDIUM	В	6"	NW.30°		40% GRAVEL, 20% ORGANIC
1150 NE	LT BRN	MEDIUM	В_	6"	NW 30°		40% GRAVEL, 20% ORGANIC
2 100 NE	LT BRN	MEDIUM	В	6	NW 30"		50% GRAVEL, 10% ORGANIC
2+50 NE	LT BRN	MEDIUM	В	10"	NW30.		40% GRAVEL, 20% ORGANIC
3100 NE	LT. BRN	MEDIUM	В	6′	NW 30'		40% GRAVEL, 20% ORGANIC.
3tso NE	LT. BRN	MEDIUM	В	6"	NW 30"		40% GRAVEL, 20% ORGANIC
4+00 NE	LT BRN	MEDIUM	В	6"	NW 30°		40% GRAVEL, 20% ORGANIC
4+50 NE	NO SAMPLE						OUT CROP
Stoo NE	NO SAMPLE						HUMUS LAYER
S+SO NE	NO SAMPLE					_	HUMUS LAYER
6100 NE	LT BROWN	MEDIUM	В	10"	NW 30°		50% GRAVEL, 20% ORGANIC
6+50 NE	LT BRN	MEDIUM	В	8"	NW 30°	100 may	50% GRAVEL 20% ORGANIC

SHEET

SHEET NO: 8

SAMPLER:	PR	COJECT : SAGE			AREA	ا : _C	RANBROOK DATE :
SAMPLE NO. and LOCATION	COLOUR	COMPOSITION	HORIZON	DEPTH	UPSLOPE AZM.	GRAD.	REMARKS
GRID T LINE ON							
7+00 NE	LT. BRN.	MEDIUM	В	6"	NW30'		40% GRAVEL, 20% ORGANIC
7+50 NE	LT. BRN	MEDIUM	В	7"	NW30°		40% GRAVEL, 20% ORGANIC
Stop NE	LT BRN	MEDIUM	В	10"	NN 30°		50% GRAVEL, 20% ORGANIC
8150 NE	LT BRN	MEDIUM	В	8"	NW30°		50% GRAVEL, 20% ORGANIC
9+00 NE	LT. BRN	MEDIUM	В	10"	NW 50°		50% GRAVEL, 20% ORGANIC
9150 NE	LT BRN	MEDIUM	В	10"	NW 50'		50% GRAVEL, 20% ORGANIC
10100 NE	BRN.	MEDIUM	В	3"	NW 50		40% GRAVEL , 20% ORGANIC
FRID " LINE 4N							
0+00 NE	BRN	FINE	В	5"	N 40°		30% GRAVEL, 10% ORGANIC
0+50 NE	BRN GREY	FINE	B	3"	N 40°		LITTLE GRAVEL, MOSTLY ORGANIC
1+00 NE	BRN	MEDIUM	A/B	8"	N 40°		50% GRAVEL and ORGANIC
I+50 NE	BRN	MEDIUM	A/B	8"	N 50°		40% GRAVEL and ORGANIC
2 too NE	LT. BRN.	MEDIUM	RIB	4"	N60°		40% GRAVEL, 10% ORGANIC
2+50 NE	LT RED BRN	FINE	В	6"	N 50°		20% GRAVEL, ORGANIC
3+00 NE	RED BRN.	MEDIUM	В	10"	N30°		50% CRAVEL ORGANIC
3 150 NE	BRN	FINE	AIB	10"	N50°	-	20% HUMUS, 20% GRAVEL
HIOONE	BRN	FINE	В	5"	NW 45°		20% CRAVEL ORGANIC
4150 NE	BRN	FINE	В	5"	NW 45°		20% GRAVEL ORGANIC
5 too NE	NO SAMPLE						OUTCROP
5+50 NE	NO SAMPLE						OUTCROP
6 +00 NE	NO SAMPLE						OUTCROP

GEOCHEMICAL SAMPLING DATA SHEET

SHEET NO: ___9

PROJECT : SAGE AREA : CRANBROOK DATE :____ SAMPLER:_

SAMPLE NO. and/or LOCATION	COLOUR	COMPOSITION	HORIZON	DEPTH	UPSLOPE AZM.	GRAD.	REMARKS
GRID # LINE HN	annaum ett aumys am ett annaum et						
6150 NE	RED BROWN	FINE	B	6"	NW 50°		30% GRAVEL, ORGANIC
7100 NE	BRN	MEDIUM	AIB	12"	NAE 60°		50% CRAVEL, ORGANIC
7+50 NE	BRN	MEDIUM	B	10"	NNE 50°		40% GRAVEL , ORGANIC
8too NE	RED BRN	FINE	<u></u>	10"	W 30°		20% GRAVEL, ORGANIC
8+50 NE	DARK BRN	MEDIUM	A/B	10"	W30"		40% GRAVEL, 20% ORGANIC
9+00 NE T	RED BRN	MEDIUM	В	3"	W 30°		10°10 GRAYEL, 10°10 ORGANIC
9+50 NE 17 100	DARK BIRN	MEDIUM	A/B	10"	W.30°		40% GRAVEL, 20% CRGANIC
10100 NE	DARK BRN	MEDIUM	AlB	8″	W 30°		50% GRAVEL, 30% HUMUS
GRID" LINE 8N							
3+00 NE	LT BRN	MEDIUM	B	3"	W30°		50% GRAVEL
3+50 NE	REDBRN	MEDIUM	В	4"	NW30°		40% GRAVEL
4 +00 NE	RED BRN	FINE	В	10"	NW20°		30% CRAVEL, 10% ORGANIC
4150NE	BRN	FINE	В	10"	NYY 30°		20% GRAVEL
5+00 NE	RED BRN	FINE	В	6'	N 30°		10% GRAVEL
5+50 NE	LT. BRN	MEDIUM	В_	10"	N45°		50% CRAVEL, 10% ORGANIC
6+00 NE	DARK BRN	MEDIUM	A/B	12"	N40°		80% CRAVEL, 20% ORGANIC
Gt50 NE	DARK BRN	MEDIUM	AlB	10"	NW 40°		50% GRAVEL, 10% ORGANIC
7+00 NE	RED BRN	FINE	В	4"	NW 40°		10% GRAVEL
7+50 NE	NO SAMPLE						NO 501L
8 too NE	NO SAMPLE						NO SOIL
8+50 NE	NO SAMPLE						NO 501L

SHEET

SHEET NO: 10

SAMPLER:_

PROJECT : SAGE AREA : CRANBROOK

DATE :___

SAMPLE NO. and LOCATION	COLOUR	COMPOSITION	HORIZON	DEPTH	UPSLOPE AZM.	GRAD.	REMARKS
GRID#1 LINE 8 N							
9+00 NE	DARK BRN	FINE	AlB	6"	NWHS		30% GRAYEL, CRGANIC
9+50 NE	NO SAMPLE						
10 roo NE	RED BRN	FINE	В	కి	W 45°		20% GRAVEL
GRID* 1 LINE 12 IN							
OTOONE	DARK BRN	MEDIUM	В	6"	NE 40'		40% GRAVEL, 10% CRGANIC
O+50 NE	LT BRN	MEDIUM	В	10"	NE 400		40% GRAVEL, 10% ORGANIC
I + OO NE	LT BRN	FINE	В	6"	NE 40°		30% GRAVEL, 10% ORGANIC
1150 NE	LT BRN	FINE	В	6"	NE 40°		30% GRAVEL, 10% ORGANIC
2+00 NE	RED BRN	MEDIUM	В	12"	NE 40°		60% GRAVEL 10% ORGANIC
2 +50 NE	LT BRN	FINE	В	10	NE 60°		30% GRAVEL, 10% ORGANIC
3100 NE	LT. BRN	MEDIUM	Alb	6"	NE 60°		40% GRAVEL, 10% ORGANIC
3+50.NE	RED BRN	FINE	В	10"	NE 30°		20% CHAVEL, 10% ORFANIC
4+00 NE	LT BRN	FINE	В	<u>(- ''</u>	NE 30°		20% GRAYEL, 20% ORGANIC
4+50 NE	NO SAMPLE						LARGE AMOUNT OF FLOAT
5 too NE	LT BRN	MEDIUM	A/B	12"	NHO°		50% GRAVEL, 30% ORGANIC
5 t 5 0 NF	LT BRN	FINE	В	10"	N 50°		20% GRAVEL, 20% ORGANIC
6 t 00 NF	LT BRN	FINE	В	10"	N50°		20% GRAVEL, 30% ORGANIC
GtSO NE	LT BRN	MEDIUM	В_	10"	N 40°		50% GRAVEL , 20% ORGANIC
7+60 NE	LT BRN	FINE	В	10"	N40°		30% GRAVEL, 20% ORGANIC
7+50 NE	LT BRN	FINE	В	10"	N 40°		20% GRAVEL , 20% ORFANIC
Btco NE	LT. BRN	FINE	В	8"	N30°		10% GRAVEL and ORGANIC

SHEET

SHEET NO: 11

SAMPLER:_

PROJECT: SAGE

AREA : CRANBROOK

DATE :____

SAMPLE NO. and LOCATION	COLOUR	COMPOSITION	HORIZON	DEPTH	UPSLOPE AZM.	GRAD.	REMARKS
GRID " LINE 12N							
8+50 NE	NO SAMPLE						OUTCROP
9+00 NE	LT BRN	MEDIUM	В	14"	NW 30°		50% GRAYEL, 10% ORGANIC
9150 NE	LT BRN	FINE	В	6	NW30°		20% GRAVEL, 10% CRGANIC
10 too NE	LT BRN	MEDIUM	В	10"	NW30"		40% GRAVEL, 30% ORGANIC
GRID#1 LINE IGN							
3+00 NE	LT BRN	MEDIUM	В	10"	ME 40°		50% CRAVEL, 10% ORGANIC
3+50 NF	LT BRN	MEDIUM	В	10"	NE 40°		50% GRAVEL, 10% ORGANIC
4+00 NE	LT BRN	MEDIUM	A/B	6"	NE30°		40% GRAVEL, 10% ORGANIC
4+50 NE	LT BRN	MEDIUM	В	10"	NE.30°		50% GRAVEL, 20% ORGANIC
5+00 NE	NO SAMPLE						OUTCROP
5 1 50 NE	NO SAMPLE						OUTCROP
6 too NE	LT BRN	MEDIUM	В	€"	NZC		40% GRAVEL
6 +50 NE	NO SAMPLE						FLOAT AREA
7100 NE	NO SAMPLE						FLOAT AREA
7+50 NE	NO SAMPLE						FLOAT AREA
STOONE	LT BRN	FINE	В	5"	N 30°		30° lo G-RAVEL, 20° LO ORGANIC
8+50 NE	LE BRN	MEDIUM	В	ю"	N 30°		50% GRAVEL, 20% ORGANIC
9+00 NE	NO SAMPLE						OUTCROP
9+50 NE	DARK BRN	MEDIUM	AlB	6"	N30°		50% GRAVEL, 20% ORGANIC
10+00 NE	NO SAMPLE						OVT CROP

SHEET

SHEET NO: 12

SAMPLER:	PROJECT : SAGE	AREA : CRANBROOK	DATE :

SAMPLE NO. and LOCATION	COLOUR	COMPOSITION	HORIZON	DEPTH	UPSLOPE AZM.	GRAD	REMARKS
GRID#2 LINE OS							
0150E	NO SAMPLE						BEDROCK SURFACE
1+00 E	MED BRN	MEDIUM	AB	6"	E 45'		OUTCRED OF RED ARGILLITE NEAR
1150E	BRN.	MEDIUM	B	2"	E 20"		CUT CROP OF RED ARGINITE NEAR
2100E	RED BRN	MEDIUM	В	4"	0		OUTCROP OF RED ARGULITE NEAR
2150E	AT BRN	MEDIUM	В	·++"	SE 15		OUT CROP NEAR STATION
3t∞E	LT- BRN	MEDIUM	В	6"	E 15°		WITH ROCK PARTICALS
3150È	MED BRN	MEDIUM	В	€ "	E 15°		WITH ROCK PARTICALS
H tooE	DARK BRN	MEDIUM	AIB	6"	E 35°		WITH ROCK PARTICALS
4 t50E	LT BRN	FINE	В	6"	E 35°		WITH ROCK PARTICALS
5100E	DARK BRN	MEDIUM	A/B	6"	E.35°		WITH ROOK PARTICALS
5 t 50 E	LT BRN	MEDIUM	B	6."	E.35°		WITH ROCK PARTICALS
6100E	MED BRN	MEDIUM	AB	6	E 35°		WITH ROCK PARTICHES
6+50E	MED BRN	MEDIUM	AIB	6"	SE 35'		WITH ROCK PARTICALS
7150E	MED BRN	MEDIUM	A/B	8"	SE35"		WITH ROCK, PARTICALS
8100E	NO SAMPLE						CUTCROP
8+50E	DARK BRN	MEDIUM	AJB	ිසි "	SE 35°		WITH ROCK PARTICALS
9 t 0 0 E	NO SAMPLE						
9+50 E	MED BRN	FINE	AlB	8"	SE 35"		WITH ROCK PARTICALS
- 10+00 E	NO SAMPLE						
10+50E	DARK BRN	FINE	AlB	8"	SE 40°		WITH ROCK PARTICALS
11+00E	NO SAMPLE		Qui-				OUT CROP

GEOCHEMICAL SAMPLING

SHEET DATA

SHEET NO: 13

SAMPLER:

PROJECT : SAGE

AREA : CRANBROOK

DATE :____

SAMPLE NO. and LOCATION	COLOUR	COMPOSITION	HORIZON	DEPTH	UPSLOPE AZM.	GRAD	REMARKS
GRID#2 LINE 45							
0150W	DARKBRIN	MEDIUM	AIB	6"	<u> </u>		GRHVEL
C†CC	DARN BRN	MEDIUM	Alb	6"	EJE30°		GRAVEL
OTSOE	GREY BRIN	COARSE	AIB	6"	ESE 30°		GRAVEL
1+00E	GREY BRN	COARSE	A13	6"	ESE 30"		G-RAVEL
1+50E	NO SAMPLE						100 % GRAVEL COVERD
2+00F	NO SAMPLE						100% GRAVEL COVERED
2150E	NO SAMPLE						100% GRAVEL COVERED
3+00 F	NO SAMIPLE						100% GRAVEL COVERED
3+50E	BRN	CORRSE	AIB	6"	E 45°		AT FOOT OF BLUFF
4+00E	NO SAMPLE			: 			ON BLUFF
4+50E	NO SAMPLE						TOP OF BLUFF
5†00E	LI BRN	COARSE	B	6"	SE 30		GRAVEL MINTERIAL
5 t 50 E	LT BRN	COARSE	LB_	<u>€</u> 31.	SE 30°		GRAVEL MATERIAL
6+00 E	LT BRN	COARSE	<u>B</u>	6"	5E 30°		GRAVEL MATERIAL
6+50E	LT BRN	EIN <u>E</u>	В	7"	SE 30"		GRAYEL MINIERIAL
7+00E	BRN	FINE	<u>B</u>	4'	SE 30°		GRAVEL MATERIAL
7150E	LT BRN	MEDIUM	В	4"	SE 30'		GRAVEL MATERIAL
8100E	NO SAMPLE						
8 t 50 E	BRN	FINE	AlB	6"	ESE 35°		
9+00E	NO SAMPLE						
9+50E	LT BRN	MEDIUM	AIB	6"	ESE35°		C-RAYEL MATERIAL

SHEET

SHEET NO: 14

SAMPLER:	PROJECT : SAGE	AREA: CRANBROOM	DATE :

SAMPLE NO. and for LOCATION	COLOUR	COMPOSITION	HORIZON	DEPTH	UPSLOPE AZM.	GRAD.	REMARKS
GRID # 2 LINE 45							
IOTOOE	BRN	COARSE	A/B	6"	ESE35		GRAVEL MIATERIAL
GRID #2 LINE 4 5							
ltoow	RED BRN	FINE	В	2"	W5'		CREEK & CISEW
1+50 VV	BUFF	FINE	В	4	W5 ³		ORGANIC MATTER
2 t 00 W	BUFF	FINE	B	<u> </u>	0		WITH ROCK PARTICALS
2150W	BEIGE	FINE	В	4 *	0		POSSIBLE SILT MATTERIAL FROM CREEK
3100W	DARK BRN	FINE	AIB	4"	MM10.		50% HUMUS
3+50W	DARK BRN	MEDIUM	AIB	40	NW 50		
4100W	BUFF	MEDIUM	В	4 *	NW 10°		
4tsow	MED BRN	MEDIUM	В	4,	NW 30°		WITH ROCK PARTICALS
5†00W	BEIGE	MEDIUM	В	6.	18 VY 15°		WITH ROCK PARTICALS
5 +50W	MED BRN	MEDIUM	13	4"	NW15		WITH ROCK PARTICALS
6 too W	MED BUFF	MEDIUM	В	4"	W 5-0		
6tsow	RED BRN	MEDIUM	B	4"	W5°		
7100 W	MED BRN	MEDIUM	B	4"	W5°		
7150W	LT BUFF	MEDIUM	<u>B</u>	4"	W5°		
8+00 W	RED BRN	FINE	В	6"	ws"		
8150W	BEIGE	COARSF	В	8"	w 20°		
9+00W	LT BUFF	FINE	В	4"	w20°		
9+50W	LI BUFF	FINE	В	4"	M10°		
10+00W	LT BUFF	FINE	В	4".	Wio:		

GEOCHEMICAL SAMPLING

DATA SHEET

SHEET NO: 15

PROJECT : SAGE AREA : CRANBROOK DATE :___ SAMPLER:_

SAMPLE NO. and/or LOCATION	COLOUR	COMPOSITION	HOEIROH	DEPTH	UPSLOPE AZM.	GRAD.	REMARKS
GRID# 2 LINE OS							
0100 W	DARK BRN	FINE	A/B	6 "	EIC		CREEK IS TO WEST
0+50W	NO SAMPLE						
1+00 VV	NO SAMPLE						
1+50W	BRN	MEDIUM	AIB	4"	W 30°		
2+00W	LT BRN	MEDIUM	AIB	2"	W 35		
2+50W	LT BRN	MEDIUM	В	4"	SW 10"		
GRID# 3 LINE ONW							
0+00	NO SAMPLE						SLIDE AREA
O+50 NE	NO SAMPLE	Access to the second se					SLIDE AREA
I too NE	NO SAMPLE						SLIDE AREA
Itso ne	NO SAMPLE			·			SLIDE AREA
1+00 NE	NO SAMPLE						SHIDE AREA
2+50 NE	NO SAMIPLE						SLIDE AREA @ 2130 CREEK NW ->SE
3+00 NE	BUFF	SILTY	В	8*	NW 5		@ 2+90 CREEK NW >SE
3150 NF	MED BAN	SILTY	В	8"	NW 5°		
4+00 NE	BUFF	SILTY	В	8"	NW 5		
4+50 NE	BEIGE	SILTY	В	8.,	N# 10°		4140 NE CREEK FLOWS INNE >SF
5+00 NE	BEIGE	FINE	В	8."	N 20°		
GRID # LINE 4 NW							
0100	NO SAMPLE						SLIDE AREA
0+50 NE	NO SAMPLE					<u> </u>	SLIDE AREA

GEOCHEMICAL SAMPLING

DATA

SHEET

SHEET NO: 16

DATE :____

PROJECT : SAGE AREA : CRANBROOK SAMPLER:_

SAMPLE NO. and/or LOCATION	COLOUR	COMPOSITION	HORIZON	DEPTH	UPSLOPE AZM.	GRAD.	REMARKS
GRID # 3 MINE 4NW							
I+OONE	BRN+GREY	FINE	A	3."	NW25		HOMOS
1+50 NE	NO SAMPLE						OUT CHOP - CREEK @ 180' NE - 5-60°E
2+00 NE	BUFF	FINE	В	ව″	NW 25°		SILTY
2+50 NE	BLACK	FINE	A	2"	NW25		30% HUMUS OVER OUTCROP
3+00 NE	GREY BRN	FINE	ALB	8"	NW20°		HUMUS and SILT
3 +50 NE	BUFF	FINE	В	10"	NW20		SILT
4 +00 NE	GREY BRN	FINE	A/B	8"	NWIO		SIAT
4+50 NE	NO SAMPLE				To the state of th	-	CUTCROP
STOO NE	BUFF	FINE	AIB	6"	NW 50°		YTAIZ
GRID#3 LINE BNW					Milk Line Control of the Control of		
0+00	GREY BRN	MEDIUM	AIB	رن ا	SWSE		
O+50 NE	NO SAMPLE		an and an and an				
I too NE	NOSAMPLE						
1+50 NE	NO SAMPLE		7 2		- and the second		CREEK FLOWS NW -SE W 4'
2 †00 NE	NO SAMPLE				ordinance and a second		CREEK @ 2+50 NE FLOWS NW -> SE
2+60 NE	BUFF	FINE	<u>B</u>	<i>h</i> +"	N 10°		SINTY
3100 NE	BUFF	FINE	В	. 4"	N10°		SILTY
3150 NE	RUFF	FINE	В	ዛ "	N5°		SILTY
4 too NE	BUFF	FINE	В	4"	N5°		SIATY
5+00 NE	BUFF	FINE	B	4"	NW 50°		SILTY
5+50NE	BUFF	FINE	В	4"	NW 500	-	SILTY

GEOCHEMICAL SAMPLING DATA SHEET

SHEET NO: 17

SAMPLER:__

PROJECT : SAGE AREA : CRANBROOK

DATE :____

SAMPLE NO. and/or LOCATION	COLOUR	COMPOSITION	HORIZON	DEPTH	UPSLOPE AZM.	GRAD.	REMARKS
GRID#3 LINE 8NW	ı						
GTOONE	DARK GREY BRN	FINE	AIB	4"	NW50°		HUMUS and SILT
GRID#3 LINE 12 NW			1				
0100	NO SAMPLE						SLIDE AREA
OtSO NE	NO SAMPLE			:			CREEK@ OLZONE, FLOW NW ->SE
I +00 NE	NO SAMPLE						CREEK @ OF 75 NE, FLOW NW + SE
ITSO NE	NO SAMPLE			-			SLIDE AREA
2+00 NE	NO SAMPLE						CREEK @ 2+30 NE , FLOW NW-SE
2+50 NE	NO SAMPLE						SLIDE AREA
3+00 NE	GREY BUFF	MEDIUM	A	6"	NW 10°		CREEK @ 3+05 NE FLOW NW ->SE
3+50 NE	BLACK	FINE	A	6"	NW 10°		HUMUS
H too NE	NO SAMPLE	man vinnightaganahan akan man akan man en er er er er er ekkinina ekkinina, ekkinina kinina kinina kinina kini					CLAIM LINE NW-SE
GRID# 3 LINE 16 NW							
0100	NO SAMPLE						RUBBLE
OtSO NE	NO SAMPLE						CREEK @ OTGONE FLOW NW -SE
I TOO NE	NO SAMPLE						CUT CROP
1+50 NE	NO SAMPLE						CUT CROP, CREEK @ 1180, FLOW NW ->SE
2t∞ NE	NO SAMPLE						OUTCROP
2 t 50 NE	BLACK	FINE	A	8"	NW10°		HUMUS
3 too NE	BUFF	FINE	B	6"	NW5°		SILTY
3+50 NE	NO SAMPLE						BLAZED LINE N-55°-W
H+00 NE	BLACK	FINE	Α	6"	NE 30°		HUMUS

GEOCHEMICAL SAMPLING

DATA SHEET SHEET NO: 18

PROJECT : SAGE AREA : CRANBROOK DATE :_ SAMPLER:_

SAMPLE NO. and/or LOCATION	COLOUR	COMPOSITION	HORIZON	DEPTH	UPSLOPE AZM.	GRAD.	REMARKS
GRID#3 LINE 20 NW							
OFSONE	NO SAMPLE						OUT CROP
I + OO NE	NO SAMPLE						Out CROP
1+50 NE	NO SAMPLE						CREEK FLOW NW -SE
2100 NE	BUFF	FINE	В	6"	NYY 10°		SILTY
2+50 NE	BUFF	FINE	B	6"	NW 10°		SILTY
3+00 NE	NO SAMPLE						CUT CROP
3150 NE	NO SAMPLE						OUTCROP, CREEK @ 3+60 - FLOW NW >SE
HTOO NE	BLACK	FINE	A/B	8"	N 10°		SILT and HUMUS
4150 NE	BLACK	FINE	A	ε"	N20°		HUMUS
5too NE	BUFF	FINE	AIB	4"	N 15°		SILT and HUMUS
5+50 NE	NO SAMPLE						OUTCROP
6too NE	NO SAMPLE						OUT CROP
GRID # 1 LINE 8 MAY							
0100	MED BRN	FINE	В	6"	E 20°		50% SAND, 50% SILT
O+50E	MED BRN	FINE	В	ව"	E20°		75% SAND 25% ORGANIC
1+00 E	LT BRN	FINE	В	12"	E20°		60% SAND, 40% ORGANIC
1+50 E	DARK BRN	FINE	?	12"	E 25°		75% GRAVEL, 25% SAND
2+00 E	MED BRN	MEDIUM	?	12"	£ 30°		80% GRAVEL, 20% ORGANIC
2+50E	LTBRN	MEDIUM	В	6"	E 35°		60% GRAVEL, 30% ORGANIC
3+00 E	MED BRN	FINE	В	12"	E35"		50% GRAVEL
3+50E	MED BRN	FINE	13	ス "	E 35-¢		70% GRAVEL, 30% SAND

SHEET

SHEET NO: 19

SAMPLER:__

PROJECT : SAGE

AREA : CRANBROOK

DATE :_____

SAMPLE NO. and LOCATION	COLOUR	COMPOSITION	HORIZON	DEPTH	UPSLOPE AZM.	GRAD.	REMARKS
2 5						-	
GRID# LINE & N							-9 001 -1
HHOONE	LT BRN	FINE	В	6"	E40'		5% GRAVEL
4+50 NE	LT BRN	FINE	B	7 "	E 45°		50% GRAVEL
GRID # # LINE 16 NW				ar announcement of the sign			
0100	RED BRN	FINE	В	10"	SE 30°		ORAVEL and ORGANIC
0+50 E	RED BRN	FINE	В	8"	SE 25°		GRAVEL and ORGANIC
1+00 E	RED BRN	FINE	В	8"	SE 30'		75% GRAVEL and CRGANIC
1+50 F	BRN	FINE	3	6"	E 30°		50% CRAVEL 30% ORGANIC
2+00E	LTBRN	MEDIUM	В	7.	E 30°		50% CRAVEL
3+00E	LT BRN	MEDIUM	B	10.	E45°		50% CRAVEL and ORGANIC
3+50E	DARK BIRN	MEDIUM	A	10"	E50°		50% ORGANIC
4100E	BRN	COARSE	?	10"	E50°		100% GRAVEL
GRID" T LINE 12 M							
0150 E	BROWN	MEDIUM	A/B	7*	E30°		GRAYEL and HUMUS
1+00E	BRN	MEDIUM	A/B	_8″_	E 30°		50% GRAVEL, 50% SAND
1+50E	BRN	MEDIUM	В	6"	E40°		75 To GRAVEL, 25% ORGANIC
2+00 E	BRN	COARSE	?	10"	E 50°		100% GRAVEL
2†50 <i>E</i>	DARK BRN	COARSE	?	8"	E50°		100% GRAVEL
3+00E	RED BRN	COARSE	В	6"	F60°		100% GRAVEL
3+50E	KEO BRN	MIEDIUM	B	10"	E 60'		75% GRAVEL, 25% ORGANIC
4+00E	RED BRN	MEDIUM	В	10"	E 60°		50% GRAVEL, 50% SAND

GEOCHEMICAL SAMPLING

SHEET

DATA

SHEET NO: 20

SAMPLER:

PROJECT : SAGE

AREA : CRANBROOK

DATE :____

SAMPLE NO. and/or LOCATION	COLOUR	COMPOSITION	HORIZON	DEPTH	UPSLOPE AZM.	GRAD.	REMARKS
GRID THE LINE 20 WAY							
C 150E	MED BRN	MEDIUM	l A	10"	5 45°		HUMUS, SAND, CRAVEL
1+00E	LT GREY, BRN	MEDIUMI	B	6"	S 35°		40% SAND, 20% GRAVEL, 40% HUMUS
1+50 E 2+00 E	RED BRN NO SAMPLE	MEDIUMI	B	8″	530°		75% GRAVEL, 25% SAND
2+50E	LT GREY, BRN	MEDIUM	В		SE 35"		75% CRAVEL, 25% SAND
3100E	RED BRN	COARSE	?	7″_	SE 45°		70% GRAVEL, 10% SAND
3150E	RED BRN	MEDIUM	?	9"	E.55°		75% GRAVEL, 25% SAND
	-				7		
•							

PROCEDURES

The grids were laid out by chain and compass with approximate correction for slope changes.

The geochemical samples were collected by shovel or prospecting pick, transferred to paper bags, and shipped to Vancouver Geochemical Laboratories Ltd., where the minus 80 mesh fraction was analysed for copper (atomic absorption method).

COSTS BREAKDOWN

LABOUR COSTS

Field	1767.50	
Office	845.60	
Travel	882.50	
Drafting	376.25	
Expediting	220.00	
Research	180.00	
	4271.85	4271.85
EXPENSES		
Helicopter	1093.30	
Airfares	703.00	
Trucks	452.25	
Taxis	24.80	
Food	273.88	
Board	37.80	
Assaying	552.00	
Equipment	145.25	
Miscellaneous office	75.22	
Miscellaneous field	88.85	•
Reproduction	157.15	
Airphotos	163.60	
	3767.10	3767.10
AIRPHOTO INTERPRETATION		

549.20

TOTAL COSTS FOR YEAR

8588.15

D. a.

DOMINION OF CANADA:

PROVINCE OF BRITISH COLUMBIA.

To Wit:

In the Matter of the GEOLOGICAL AND GEOCHEMICAL FIELD PROGRAM ON THE ABC, DEF, GHI, AND JKL CLAIMS.

1, David Philip Arscott

of 301-540 Burrard Street, Vancouver,

in the Province of British Columbia, do solemnly declare that the following figures represent the labour costs involved in the above program:-

Na	<u>me</u>	<u>Position</u>	Address	No. days	<u>Rate</u>	Cost
D.	Arscott	Geologist	301-540 Burrard St. Vancouver 1, B.C.	28 7/8	55.00	1588.10
Р.	Fitzgibbo	n Supervisor	1500 Pemberton Av. N. Vancouver, B.C.	11	65.00	715.00
J.	Cant	Geologist	748 Bute Street, Vancouver, B.C.	7	45.00	315.00
G.	Childs	Sampler	2376 W. 12th. Av. Vancouver, B.C.	10	30.00	300.00
т.	Drews	Draftsman	748 Bute Street, Vancouver, B.C.	6 3/8	30.00	191.25
н.	Johnson	Sampler	677 E. Windsor Rd. N. Vancouver, B.C.	8	30.00	240.00
W.	Mackenzie	Sampler	3087 E. 3rd. Av., Vancouver, B.C.	8	30.00	240.00
D.	Visser	Sampler	2250 Westbrook Cr. Vancouver, B.C.	8	30.00	240.00
Р.	Fulljames	Sampler- expeditor	1968 W. 2nd. Av. Vancouver, B.C.	14 3/4	30.00	442.50
			TOTAL L	ABOUR COST	?S	4271.85

And I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath and by virtue of the "Canada Evidence Act."

Declared before me at the City	
of Vancouver in the Province of British Columbia, this 22nd.	David assott
Province of British Columbia, this 22nd.	
day of October 1971 , A.D.	

A Commissioner for taking Affidavits within British Columbia or A Notary Public in and for the Province of British Columbia.

SUB-MINING RECORDER

Invoice No. 12 May 31, 1971

Mohawk Ventures Ltd 301 - 540 Burrard Street Vancouver 1, B. C.

	Re:	Costs in Period May 16-31, 1971	
SAGE CRE	EEK PROJECT:		
Fees:	D. Arscott 1 1/2 days 8 55.00 J. Cant 2 days 8 45.00	\$82.50 90.00	
	Expenses	198.65	
		\$371.15	\$371.15
Field Pr	rogram planning, all properties		
D. Ars	scott 5 1/2 days @ 55.00	302.50	302.50
Equipmen	nt Aquisition for Field Programs	286.91	286.91
Total			\$960.56
Less adv	vance stside" telephone calls		400.00 12.80
Amount d	lue		\$547.76

N.a.

David Arscott

Invoice # 17
June 15, 1971

m

Mark I

Angle Bemare Mines Ltd., 540 Burrard Et., Vancouver 1, B.C.

Re: COSTS FOR PERIOD 1-15 June 1971

SAGE CREEK PROPERTY

Fees: 2 days @ 55.00

Empenses

\$110.00

37.52

TOTAL AMOUNT DUR

\$147.52

D.a.

David Arscott

pd from acet. of 25 June.

Mark V Mines Ltd., 540 Burrard St., Vancouver 1, B.C.

Re: COSTS FOR PERIOD 1-15 June 1971

C B S 3370:

Fees: 7/8 days @ 55.00

\$48.10

SAGE CREEK:

Fees: 7/8 days @ 55.00

48.10

TOTAL AMOUNT DUR

396.20 Md

D.a.

David Arscott

Mark V Mines Ltd., 301 - 540 BurrardcSt., Vancouver 1, B.C.

Re: Costs for period 16 - 30 June 1971

SAGE CREEK PROJECT

Fees:	D.A.	10	days	6	55.00	\$550.00
	P.F.	4	days	•	30.00	120.00
	H.J.	3	days	6	30.00	90.00
	B.M.	3	days	6	30.00	90.00
	G.C.	3	days	9	30.00	90.00
	D.V.	3	days	6	30.00	90.00

Expenses: D.A. \$865.75

TOTAL COSTS FOR PERIOD \ \$1895.75

D. a

D. Arscott

Invoice No. 24

July 15th, 1971

Mark V Mines Ltd. 540 Burrard Street Vancouver 1, B. C.

Re: Costs for Period July 1 - 15

SAGE	CREEK	PROJEC	CTS				**		
	Fees:	D.A.	1 3/4	days	0	\$55.00	\$	\$96.25	
		G.C.	7	days	9	\$30.00		210.00	
		P.F.	5	days	9	\$30.00		150.00	
		W.M.	5	days	9	\$30.00		150.00	
		н.J.	5	days	9	\$30.00		150.00	
		D.V.	5	days	9	\$30.00		150.00	
•									
	Expen	ses:		2					
		D.A.					1,	383298	
		P.B.	•				-	329.75	
							\$2,	619.98	\$2,619.98
CBS :	3370 (shared	with	Thor I	E x)	ploratio	ns I	td.)	
	Fees:	D.A.	1 1/2	days	9	\$55.00	\$	82.50	
		P.F.	1,2	day	6	30.00		30.00	

D.A.

Expenses:

D.A. <u>214.28</u>

\$3,326.78 X4 163.39

JORDON PROPERTY VISIT (Cranbrook)

Fees: 1 1/2 days @ 55.00 82.50

Expenses: 46.10

\$ 128.60 <u>128.60</u>

(See also invoice #23)

O. a \$2,911.87

MARK V MINES LTD.(NPL), 301 - 540 Burrard Street, Vancouver 1, B.C.

IN ACCOUNT WITH

DAVID P. ARSCOTT, P. ENG.

30 JULY, 1971

J.C 7 days @ 45.00 315.00 P.V 7 days @ 30.00 210.00 D.V 7 days @ 30.00 210.00 B.J 7 days @ 30.00 210.00 H.J 7 days @ 30.00 210.00 H.J 7 days @ 30.00 210.00 S1,737.50 X 1/2 = \$868.78 EXPENSES: D.A. 1,159.58 X 1/2 = 579.79 SAGE CREEK FEES: D.A 4½ days @ \$55.00 247.50 J.C 3 days @ 45.00 135.00 P.F 3 days @ 30.00 90.00 \$ 472.50 472.5 EXPENSES: D.A. 1,304.7	C B S 3370	(shared	with Thor I	ixplorations	Led.)				
EXPENSES: D.A 4½ days @ \$55.00 247.50 J.C 3 days @ 45.00 135.00 P.F 3 days @ 30.00 90.00 \$ 472.50 472.5 EXPENSES: D.A. 1,304.7 INFORM PROPERTY: EXPENSES: D.A. 55.0		J.C P.V G.C D.V H.J	7 days 7 days 7 days 7 days 7 days	45.00 30.00 30.00 30.00 30.00		210.00 225.00 210.00 210.00			
8AGR CREEK FIRES: D.A 4½ days 0 \$55,00 247.50 J.C 3 days 0 45.00 135.00 P.F 3 days 0 30.00 90.00 \$ 472.50 472.5 EXPENSES: D.A. 1,304.7 SOROM PROPERTY: DIFFEREN: D.A. 65.0						\$1,737.50	X 1/2		\$ 868.75
1.C 3 days e 45.00 P.F 3 days e 30.00 \$ 472.50 \$ 472.50 472.5 EXPENSES: D.A. 1,304.7 SOURCE PROPERTY: EXPENSES: D.A. 65.0 EXPENSES: D.A. 65.0			D.A.			1,159.58	x 1/2		570.79
EXPENSES: D.A. 1,304.7 SOMOON PROPERTY: EXPENSES: D.A. 55.0 EXPENSES: D.A. 55.0	7/3	J.C	3 days	45.00		135.00 90.00			472.50
SUFFRENCE D.A			D.A.						1,304.73
- 47.0	217		D.A.						65.06
	, June							· -	27.90 1 11.48
MARK ANCIEST MIS (see attached statement)									

DATES P. ARSWITT, F. MI

Invoice #32
16th August, 1971

Mark V Mines Ltd., 301 - 540 Burrard Street, Vancouver 1, B. C.

TOTAL AMOUNT DUE

IN ACCOUNT WITH

DAVID ARSCOTT, P. ENG. 301 - 540 Burrard Street Vancouver 1, B. C.

Re: Costs for Period 1 - 15 August. 1971

Fees: D.A. 34 days @ \$55.00 J.C. 2 days @ 45.00	\$178.75 90.00	- correct	ted on #59
P.F. 1 day 9 30.00	30.00		
Expenses	183.27		
	\$482.02	\$482.02	
CBS 3370 [shared with Thor Explorations] Expenses: ½ x \$431.37		215.68	
Fees: P.f. 11 days @ \$30.00 Expenses	37.50 40.09		
	77.59	77.59	
TOTAL FOR PERIOD		\$775.29	

D. a

\$775.29

D. Arscott

IN ACCOUNT WITH

DAVID ARSCOTT 301-540 Burrard Street Vancouver 1, B. C.

To Mark V Mines Ltd., 301 - 540 Burrard Street, Vancouver 1, B. C.

Y3 .	0 1	es.	T 1 1	• /	~ ~		1001
1: e:	Costs	for	Perlod	10 -	31	August	1971

Sage Creek Project

Fees:	D.A. T.D. F.F.	-	3 1 4 1 4	days days	0	\$55.00 30. 00 30. 00	\$ 13.75 105.00 52.50	
Expenses:	D.A.						43.40	

CBS 3370 (shared with Thor Explorations Ltd.) (see invoice #41)

Fees:	D.A.	-	$1\frac{1}{2}$	days	@	\$55.00		82.50
	T.D.	-	$1\frac{1}{2}$	days	Ø	30.00		45.00
	P.F.	-	3 🖁	days	0	30.00 30.00	1	05.00

Expenses:

D.A. 35.31

267.81x1 133.90

214.65

TOTAL AMOUNT DUE

\$348.55

\$214.65

P. a

David Arscott

In account with D. Arscott 301-50 Burrard St. Vancouver 1,B.C.

Mark V Mines Ltd. 301-540 Burrard St. Vancouver, B.C.

RE: Costs for period 1-15 Oct. 1971

SAGE CREEK PROJECT

Fees: D.A. - 3 3/4 days @ 55.00 206.25

T.D. - 1 3/4 days @ 30.00 52.50

258.75 258.75

Expenses: nil

CBS 3370 (Shared with Thor Explorations Ltd.)

Fees: D.A. - 3/4 day @ 55.00 41.25

J.C. = 7 3/4 days @ 45.00 168.75

T.D. - 1 3/8 days @ 30.00 41.25

251.25

Expenses: D.A. $\frac{3.00}{254.25} \times 1/2 127.12$

EQUIPMENT ACQUISITION

Expense: D.A. - 26.25

AMOUNT DUE 412.12

In account with D. Arscott 301-540 Burrard St. Vancouver, B.C.

Mark V Mines Ltd 301-540 Burrard St. Vancouver, B.C.

RE Costs in period 16-31 October 1971

SAGE CREEK PROJECT

Fees: D.A. - 2 days @ 55.00 110.00 T.D. - 1 1/8 days @ 30.00 33.75

143.75

Expenses: D.A.

135.05

AMOUNT DUE

278.80

CORRECTION TO INVOICE # 32 (Sage Creek)

Deduct 1 day @ 55.00

CORRECTED AMOUNT DUE

223.80

DOLMAGE, CAMPBELL & ASSOCIATES LTD.

MU 1-2345 1000-1055 W. Hastings St. Vancouver 1, Canada

Mrs. A. Mark, President,
Mark V Mines Ltd., (N.P.L.)

Statement

L	Mark V Mines #301 – 540 Bu Vancouver 1,		CONSULTING SERVICES Invoice Date: August 4, 1971 June-July, 1971				
	FLATHEAD PR	OPERTY: (Photogeological study)					
	REPORT PREPA	ARATION:					
		D. D. Campbell (2/3 day @ \$150) R. Saunders (4 days @ \$100)	\$100.00 \$400.00	\$500.00			
	EXPENSES:						
O	June 11/71 June 16/71 June 23/71 June 5/71	Wages, draughting R. B. Findlay Expense (2 topo) Van Cal Reproductions Van Cal Reproductions Van Cal Reproductions	\$ 35.00 \$ 7.00 \$ 2.31 \$ 1.18 \$ 3.71	<u>\$ 49.20</u>			
				\$549.20			
(& D. E.							



SERVICE CHARGE OF 11/2% PER MONTH CHARGED ON OVERDUE ACCOUNTS. ACCOUNTS OVERDUE AFTER 10TH OF MONTH FOLLOWING DATE OF INVOICE.

CERTIFICATE

I, David Philip Arscott, of 301-540 Burrard

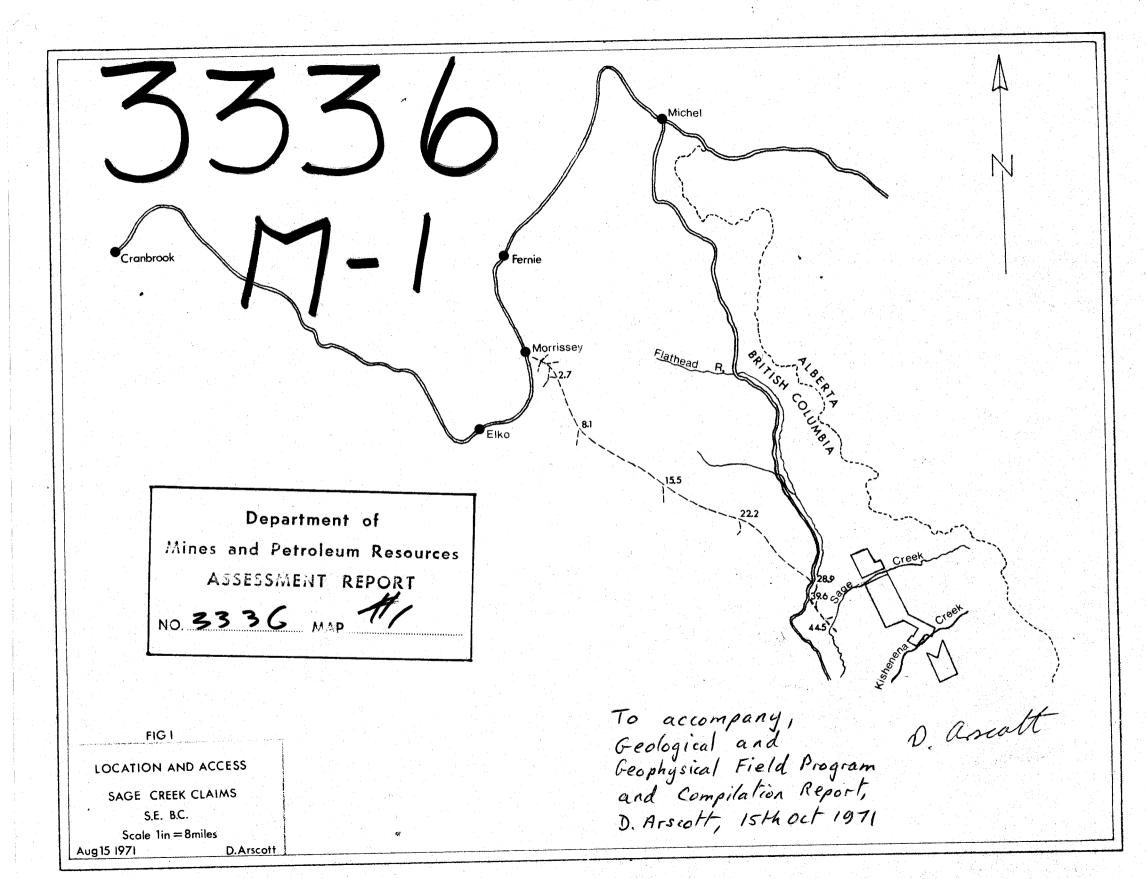
Street, Vancouver, am a Professional Engineer registered
in British Columbia.

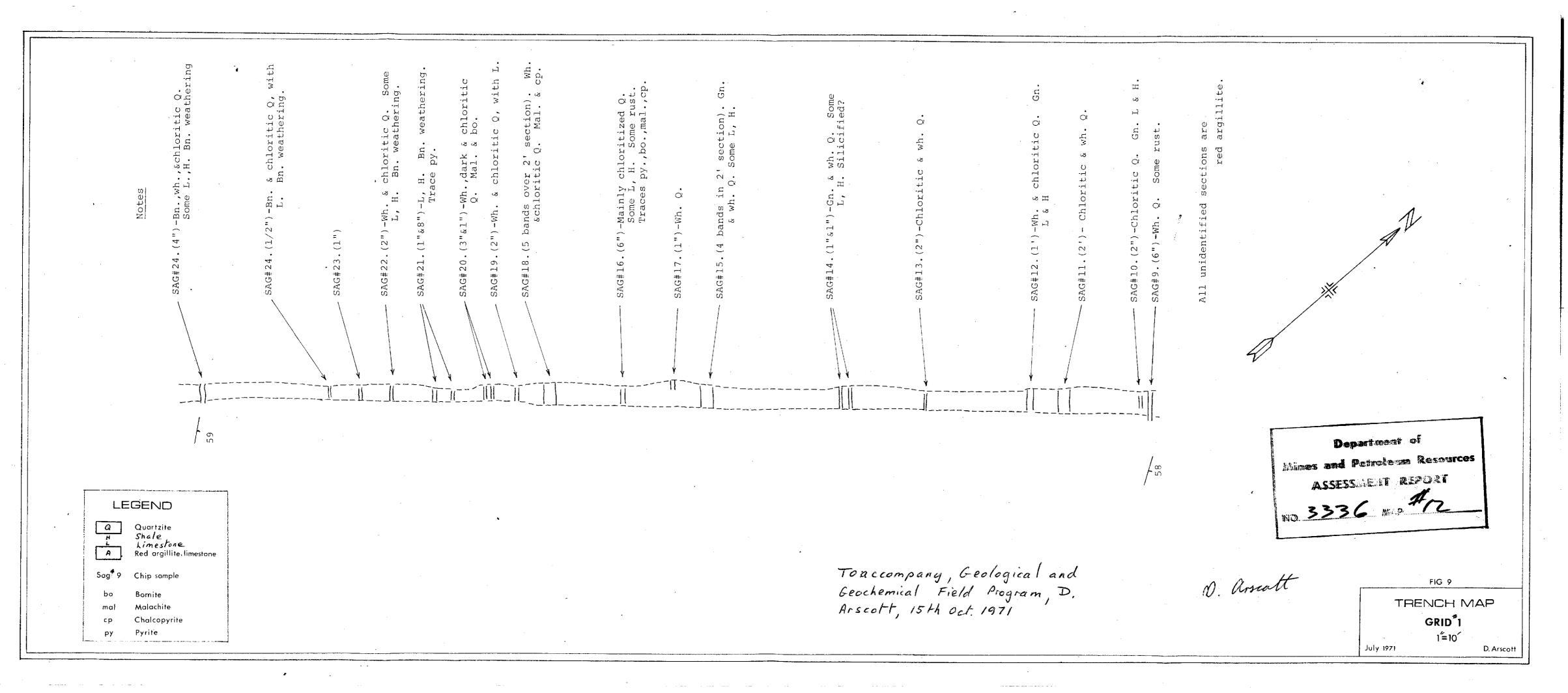
The 1971 Surveys at Sage Creek were carried out at my direction, and partly under my direct supervision.

I personally compiled the evidences of expenditure, and these are to the best of my effort true and accurate.

David assott

David Arscott, P. Eng. 15th October, 1971





VFL-EM

1. Index Map 2. Chuchi Lake Claim Map 3. Tchentlo Lake Claim Map 4. Chuchi Lake Geology 5. Tchentlo Lake " 6. Chuchi Lake - VLF-EM Fraser Numbers Chuchi Lake - VLF-EM Fraser Filter Fraser Contours Tchentlo Lake - VLF-EM Dip Angle Readings 10. Arithmatic Mean 11. **Arithmatic Contours** 12. Fraser Filter 13. Fraser Contours Chuchi Lake Magnetometer Readings 15. Magnetic Contours Tchentlo Lake Magnetometer Readings " Magnetic Contours 17. 18. Chuchi Lake Geochemical Survey

19. Tchentlo Lake

20. Klawli River

CYPRUS EXPLORATION CORPORATION, LTD.

510 WEST HASTINGS STREET VANCOUVER 2. BRITISH COLUMBIA TELEPHONE: 683-9304

No area of the	12 1071	
August	TO, TO(T	
-	13, 1971 D.C.G.C	

Your ref.:

166-Omineca

REFERENCE TO

D. 14.

0.6,0.

THITIAL

C.M.B.

R. T.

C.P.E.

FILING CLARK

Dear Sir:

Victoria, B. C.

Mr. R. H. McCrimmom Chief Gold Commissioner

Department of Mines and

Petroleum Resources

RE: BIS, ISA, RAJ, SSK, SK, KING, etc.
Mineral Claims Geological-Geophysical-

Geochemical-Line Cutting Report

In response to your letter of August 4th, I can advise as follows at the present:

- 1) The geological work was carried out in the field by M. R. Swanson and C. C. McFall. Dr. McFall, since then, has been assigned to a project in Alberta, and so it will be necessary to contact him there regarding the amount of out-crop and modification of the geological maps you request. This may take several weeks.
- 2) Re the E.M. and Magnetometer values: We will forward maps showing these as soon as possible. At the present time, these sheets are either in the field or in McFall's possession.
- 3) We enclose herewith two copies of McPhar's report on the I.P. work.
- 4) Soil Horizons in the area sampled are extremely poorly developed, if at all, and although ideally the field men were attempting to sample B Horizon, it would be wishful thinking to believe that this was, in fact, achieved. As your geologists probably know, there are in places in that area some extreme thicknesses of glacial material, and immediately around the Tchentlo Lake shoreline, the soils are essentially lake sands.

AUG 16 71 PS

5) The Seattle transmitter was used for the EM 16 Survey.

Yours very truly,

CYPRUS EXPLORATION CORPORATION, LTD.

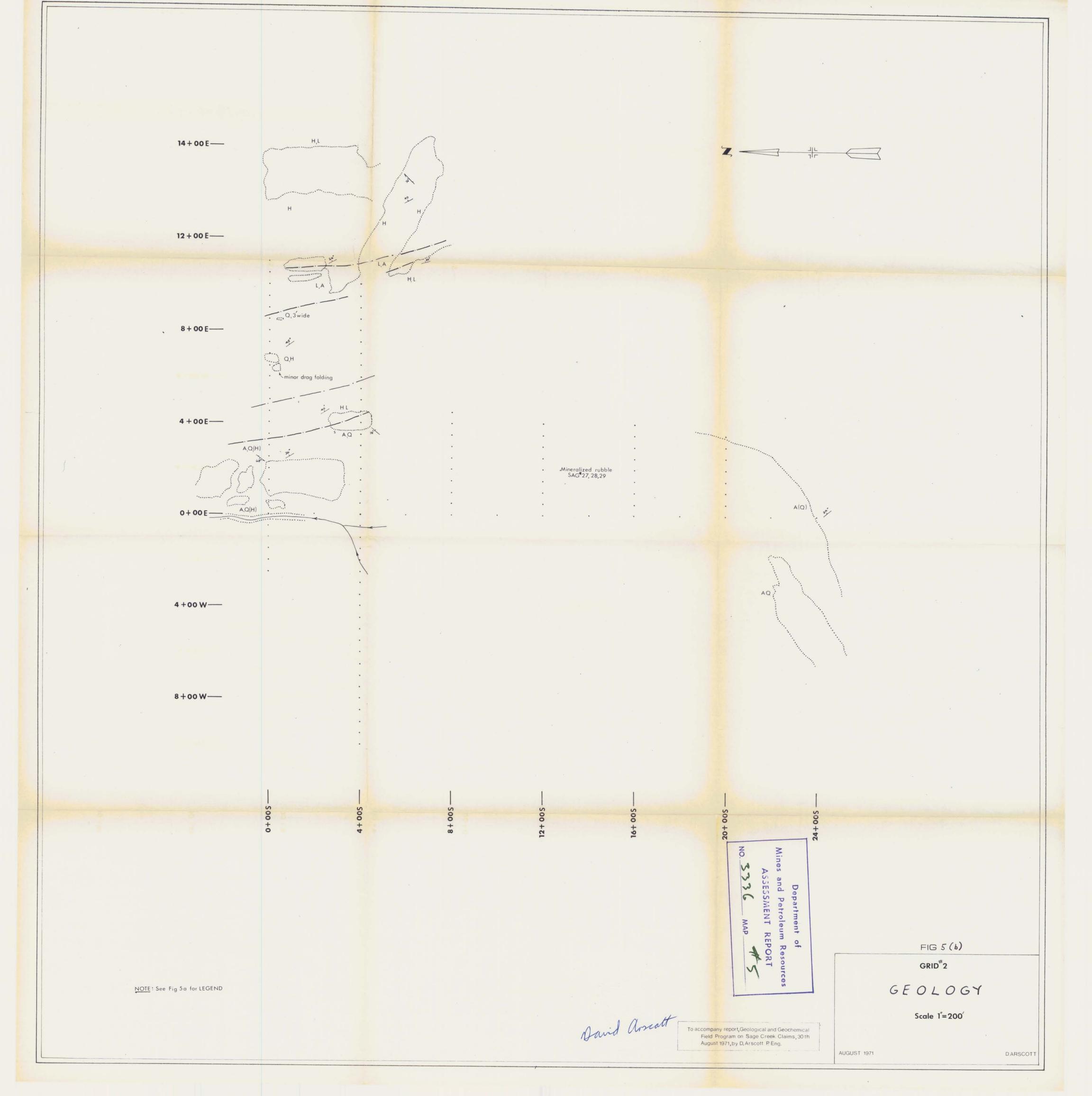
B. P. Sawyer

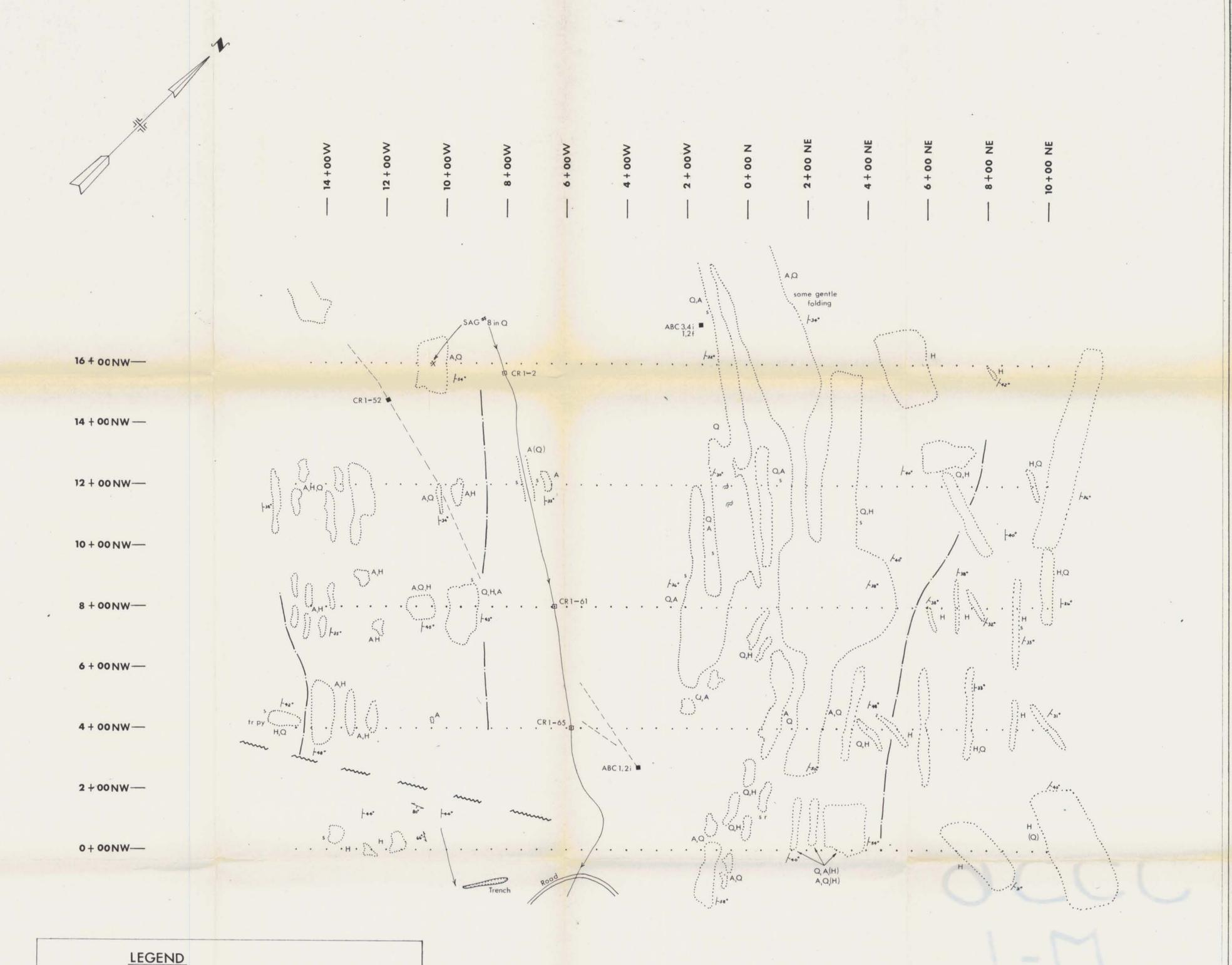
Manager - Cahadian Exploration

5

JBPS/nk ""(); Encls:

An:





A Argillite, red

- H Shale green to grey, or blue. Slaty in parts
- Q Quartzite, white to pink often chloritic L Limestone
- s Shattered r Rusty
- py Pyrite
- tr Trace
- Creek
- --- Claim line O Creek junction (see air photos)
- Old flagging, numbered
- Claim post
- Bedding with dip

 Shear with dip
- ★ Rock sample location
- ⇒ Drag folds Generalized geologic contacts

NOTE
All rock types are narrowly interbedded
A,Q indicates more A than Q
Q(H) indicates H less 10%

D. arreatt

To accompany report, Geological and Geochemical Field Program on Sage Creek Claims, 30th August 1971, by D.Arscott P. Eng.

Department of Mines and Petroleum Resources ASSESSMENT REPORT
NO. 3336 MAP

FIG 5(A)

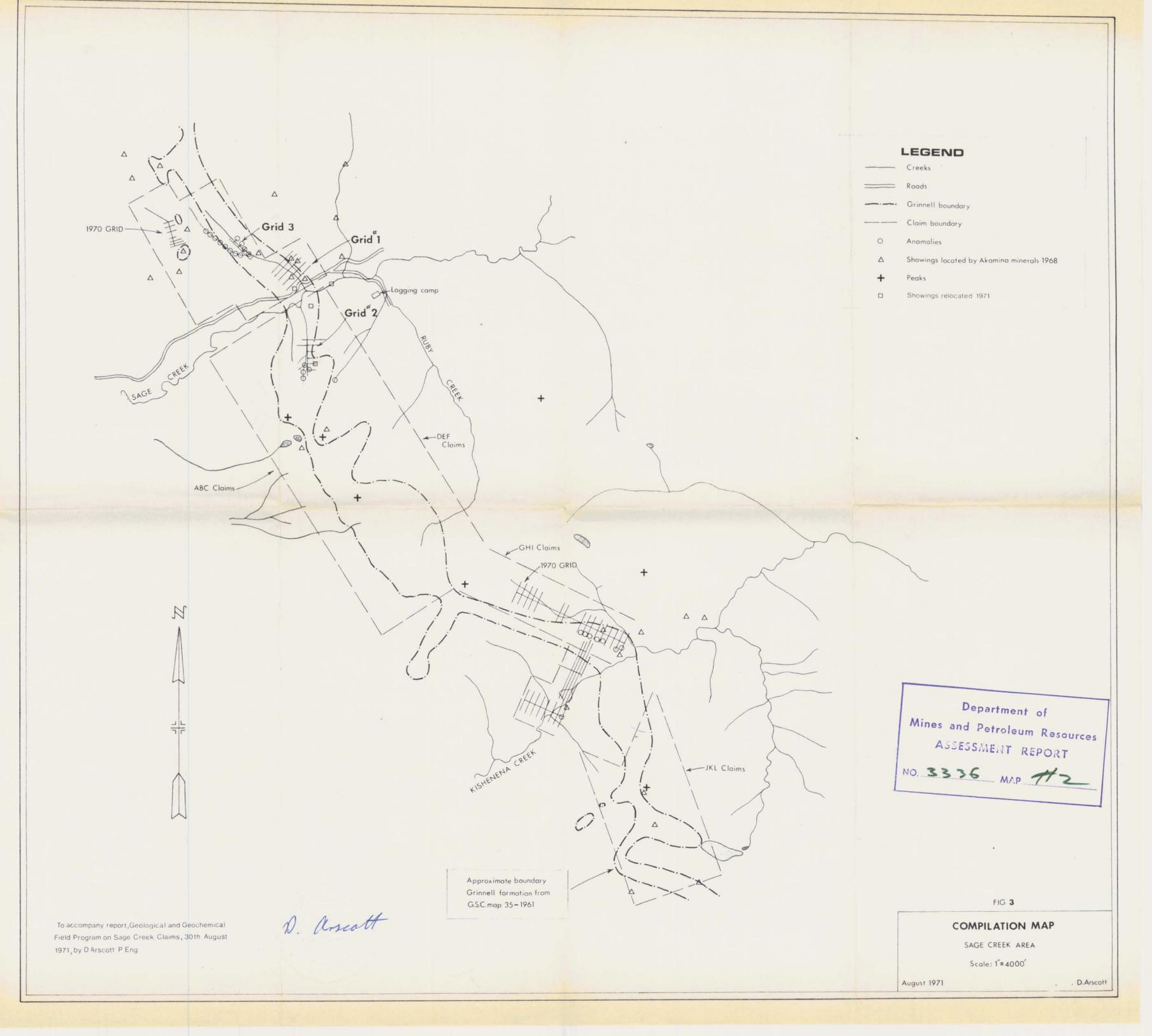
GRID*1

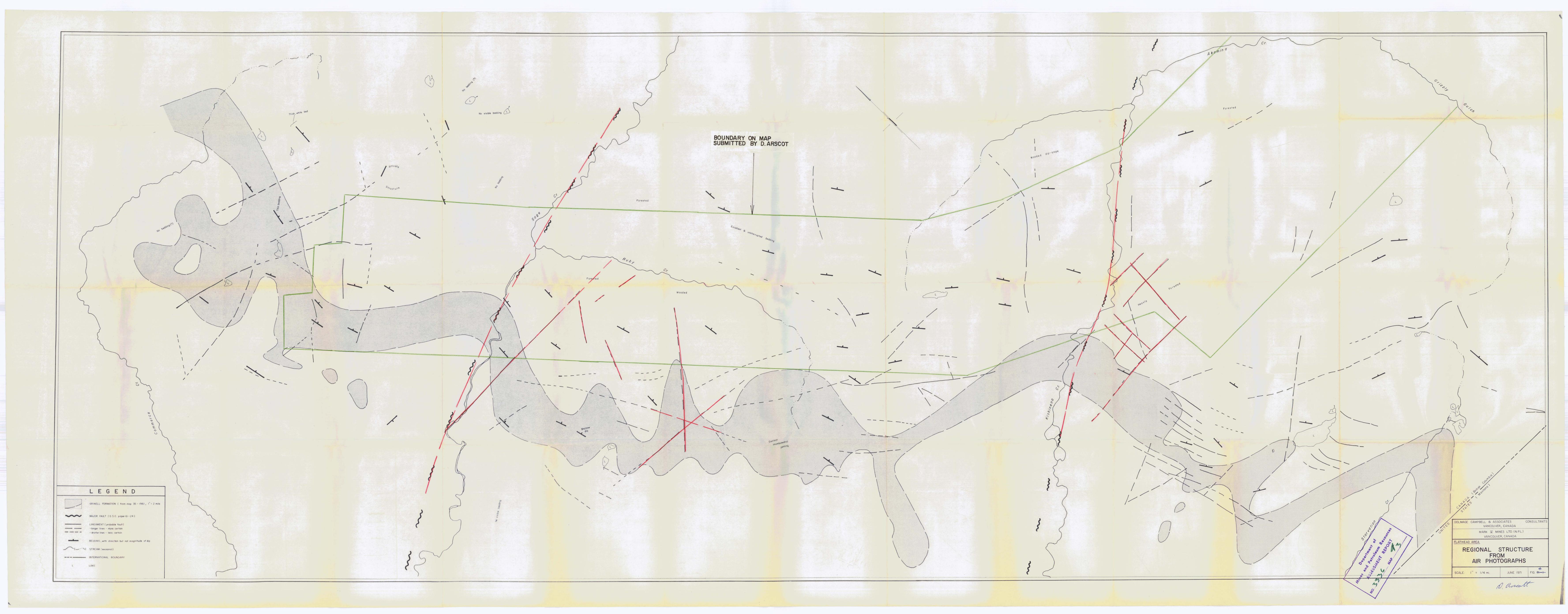
GEOLOGY

Scale 1"= 200'

AUGUST 1971

DARSCOTT





20 + 00NW -16 + 00 NW ---12 + 00NW -78 . . . 40 92 52 48 . 31 20 23 8+00NW ---17 73 42 53 95 30 . 23 4+00NW -0+00NW -4+00NE-8 + 00 NE-0+00NE Z O Mines and Petroleum Resources ASSESSMENT REPORT Department MAP FIG 6(c) GRID*3 SOIL SAMPLING Scale 1 = 200 LEGEND 18 Copper ppm O. arrett ____ 50 and 80 ppm contours To accompany report. Geological and Gechemical Field Program on Sage Creek Claims. 30th August 1971. by D.Arscott P.Eng. DARSCOTT AUGUST 1971

14 + 00 E ---7 - 1-12 + 00 E---•22 +35 •20 8 + 00 E----25 •19 -14 -24 -15 -13 -14 4+00E--+19 -15 •20 -15 -14 -22 -13 -25 -13 -21 -43 -22 -19 •23 -26 •20 -20 0+00E---•24 -12 -17 .75 -15 4+00 W----13 .12 8+00W---NO 3336 MAP Department of Mines and Petroleum Resource ASSESSMENT REPORT FIG 6(B) GRID*2 LEGEND SOIL SAMPLING 8 Copper.ppm ____ 50 and 80 ppm contours Scale 1"=200' P. arscatt To accompany report, Geological and Geochemical Field Program on Sage Creek Claims, 30 th August 1971, by D. Arscott P. Eng. DARSCOTT AUGUST 1971

0.

- 14 + 00 W --- 12 + 00W •12 --- 10 + 00W -- 8+00W .15 -- 6+00W - 4 + 00 W ___ 2 + 00 W - 0+00 N ___ 2+00 NE 4. C# 01W 9 8 2 2 5 ON 20 TROGER TWEMSCESSA - 4 + 00 NE Mines and Petroleum Resources Department of --- 6 + 00 NE - 8+00 NE -5 --- 10+00 NE 20 .21 GRID*1

HQ 20+00NW ---81/1 16 + 00 NW ---CR1-07 HQ 12 +00NW -H,Q 8 + 00 NW -A,(H) 4+00NW -: s in parts Hao' L.H in place? 1CW-700 0+00NW ---8+00NE Mines and Petroleum Resources ASSESSMENT REPORT Department of FIG 5(c) GRID*3 GEOLOGY Scale 1 = 200 NOTE See Fig 5a for LEGEND D arrealt To accompany report, Geological and Gechemical Field Program on Sage Creek Claims: 30th August 1971, by D.Arscott P. Eng. AUGUST 1971 DARSCOTT

