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KECHIKA PROJECT 1976
VOLUME I FINAL REPORT

NTS 94-C/F/K/L/M, 104-I/P
December 1976

P. Boyle

KECHIKA PROJECT 1976

VOLUME 1

Reconnaissance of Lower Paleozoic Carbonates
and Shales in Northeastern British Columbia,
for Carbonate and Shale Hosted Lead Zinc Deposits

by

Peter Boyle

Texasgulf Inc.

NTS 94-C/F/K/L/M, 104-I/P

Calgary
December 1976

KECHIKA PROJECT 1976

FINAL REPORT VOLUME 1

Table of contents		Page
Review		..4.
Summary and Conclusion		..5.
Recomendations		..6.
Regional Geology		..9.
	-Transcurrent faulting in the Rocky Mountain Trench and Tintina Trench	.11.
	-Geology of the area west of the Kechika River in the vicinity of the Turnagain River.	.14.
	-Geology east of the Kechika River opposite the mouth of the Turnagain River.	.16.
	-Geology of the Liard Bridge Area (south and west of the Alaska Highway).	.19.
	-Geology of the Gataga River Area	.24.
	-Geology of the Kwadacha River-Pesika Creek Area	.26.
Geochemical Program Results		.35.
Field Work		.36.
Methods		.36.
Sampling Procedure		.37.
Analysis of Samples		.38.
Personnel		.40.
APPENDIX A	-Description of Mineralization	
	-Rough Showing, Through Creek Fe, Zn 94-L-8(1) Memo	.40.
	-Boya Showing, Cu, W, Zn 94-M-3(1) Memo	45.
	-D,P Showing, Driftpile Creek Fe, Zn, Pb 94-K-4(1) Memo	51.
	-Driftpile Ca/Okg Showing Zn (Cu) 94-K-4(2) Memo	55.

FINAL REPORT VOLUME 2

Table of contents	
APPENDIX B	-Geochemical Data Sample Record Sheets
APPENDIX C	-Geological Traverse Record

VOLUME 1

LIST OF FIGURES AND MAPS IN TEXT

Fig. 1-1	Location Map
Fig. 1-2	Geological Legend to Location Map.
Fig. 2-1	Geology Map 94-L/M, 104-I/P
Fig. 3-1	Stratigraphy east of the Kechika River opposite the Mouth of the Turnagain River.
Fig. 4-1	Index Map to Barite Fluorite deposits (Alaska Highway)
Fig. 4-2	Schematic Cross Section A-B
Fig. 4-3	Schematic Cross Section C-D
Fig. 4-4	Geology Rabbit River 94-M-SE
Fig. 5-1	Schematic Cross Section E-F
Fig. 5-2	Legend to Geology of Kechika Map area
Fig. 5-3	Geology of Kechika 94-L-SE

APPENDIX A

Fig. A-1	Rough Showing	Claim Map
Fig. A-2		Rock Chip Profile
Fig. A-3		Soil Sample Profile
Fig. A-4	Boya Showing	Location Map
Fig. A-5		Geology
Fig. A-6		Rock Chip Geochemistry
Fig. A-7		Schematic Cross Section
Fig. A-8	D,P Showing	Location Map
Fig. A-9	Driftpile Ca/Okg	Showing Location Map

VOLUME 1
IN POCKET

ROCK CHIP GEOCHEMISTRY

						Scale
Fig. D-1	Sample location Map	Rabbit River	W 1/2			1:250,000
D-2	"	"	E 1/2			"
D-3	"	Kechika	W 1/2			"
D-4	"	"	E 1/2			"
D-5	"	Tuchodi	W 1/2			"
D-6	"	Ware	E 1/2			"
Fig. D-7	Cu/Pb/Zn (V)	Map Rabbit River	W 1/2			1:250,000
.D-8	"	"	E 1/2			"
.D-9	"	Kechika	W 1/2			"
.D-10	"	"	E 1/2			"
D-11	"	Tuchodi	W 1/2			"
.D-12	"	Ware	E 1/2			"
.E-1	Sample location Map		94-K-4			1: 50,000
.E-2	"		94-L-1			"
.E-3	"		94-L-8			"
.E-4	Cu		94-K-4			"
.E-5	"		94-L-1			"
.E-6	"		94-L-8			"
.E-7	Pb		94-K-4			"
.E-8	"		94-L-1			"
.E-9	"		94-L-8			"
.E-10	Zn (V)		94-K-4			"
.E-11	"		94-L-1			"
.E-12	"		94-L-8			"

Also included with this report:

N.E. B.C. Lower Paleozoic Compilation Maps 1:1,000,000
(April, 1976/revised Sept., 1976)

Fig. .F-1	Kechika Project Explorations, 1976	- N.E. B.C. Study area
.F-2	Kechika Project Explorations, 1976	- N.E. B.C. Mineral Occurrences
.F-3	Kechika Project Compilation, 1976	- N.E. B.C. Ordovician
.F-4	Kechika Project Compilation, 1976	- N.E. B.C. Silurian
.F-5	Kechika Project Compilation, 1976	- N.E. B.C. Devonian

KECHIKA PROJECT-EXPLORATIONS

REVIEW

AREA

-Northeastern British Columbia-Recon.

GEOLOGY

-Lower Paleozoic Platform Carbonates and related Shale Basin

EXPLORATION TARGETS

- Carbonates hosted Zn/Pb deposits of the Robb Lake or Pine Point type.
- Shale hosted Cu/Zn or Pb/Zn deposits of the euxinic shale basin type
- Turbidite, avalanche debris hosted Zn Cu Pb deposits, of Meggen type.

EXPLORATION CREW

-Seven (7) men, helicopter supported, for ten (10) weeks (May-September, 1976)

RESULTS

MINERAL PROSPECTS

- (1) Rough Showing: 94-L-8(1) Zn Fe Pb, pyrite, sphalerite, galena. 5 claims, 92 units total, claims recorded Sept. 2, 1976.
- (2) Boya Showing: 94-M-3(1) Fe, Cu, W, Zn, pyrite, pyrrhotite, chalcopyrite, scheelite, sphalerite. No claim recorded.

MINERAL OCCURRENCES

- (1) D.P. Showing (PLACER): 94-K-4(1) Fe, Zn, Pb, pyrite, sphalerite, galena
- (2) DRIFTPILE Ca/Okg Showings: 94-K-4(2), Zn (Cu) sphalerite, (chalcopyrite, malachite)
- (3) AKIE Showing: 94-F-7 (1) Zn Cu, sphalerite, chalcopyrite.

GEOCHEMISTRY

- (1) Black pyritic shales extend southeast from the mouth of the Gataga River, 100 miles to the Ospika River. Numerous red-ochre spring iron tuffa deposits are noted where running water crosses massive pyrite beds within the black shale. Rock chip sampling indicates that the black shales have a higher than normal Zn Pb V metal content. This is particularly noticeable when the red spring-iron deposits are sampled.

PROSPECTING

Hydrozincite, sphalerite, malachite and chalcopyrite are frequently observed; in trace amounts associated with the black shale; in minor amounts associated with the bedded pyrite (D,P Showing); and in the black shale proximal to the shale/carbonate facies edge.

SUMMARY & CONCLUSION

Kechika Project was a comprehensive geological and geochemical reconnaissance survey in northeastern British Columbia. The objective of the project was to discover Mississippi Valley type Pb-Zn mineralization or Howards Pass type Pb-Zn-Cu mineralization in the Lower Paleozoic sediments.

Three distinct areas of interesting mineralization were located: The Boya Showing (Fe, Cu, W, Zn); The Rough Showing (Zn, Fe); and the Akie Showing (Cu, Zn). Only the Rough Showing was staked (5 Claims total 92 units).

In the Birches Lake region the Atan, Kechika, Sandpile and McDame Formations were examined. Previously, stream sediment geochemical anomalies were noted in this area (Deighton 1971). Many of which were examined. Follow up on some of these anomalies also resulted in the Mississippian Nitzi Formation being examined. East of Birches Lake phyllitic shale limestone and quartzite of indeterminate age were examined.

Interesting mineralization was noted at the Boya Showing. Chalcopyrite, pyrite, pyrrhotite, scheelite and sphalerite were found associated with green skarn. These results indicate that the Liard Plateau should be examined in more detail for magnetic massive sulphide-tungsten showings.

West of the Kechika River the Hidden Valley Copper Showings. hosted in the Kechika Formation were examined. The mineralization is erratic and discontinuous. High rock geochem PbZn values were obtained from the limonitic matrix of the Sandpile and McDame Fm breccias. However no associated sulphides were located in the vicinity.

In the Liard Bridge Area Units 3 thru 8 were examined. The rock chip geochem results were uniformly low. No evidence of any sulphides were seen in the area.

From Toad River the Cambro-Ordovician carbonates and shales were examined west of the Gataga River. The Ordovician graptolitic shales are very carbonaceous. Zn traces are common in the shales. Good Zn occurrences were located at several points along the Ca/Okg contact and one, the Rough Showing was staked. The mineralization is associated with pyritic shales overlying and intertonguing with the carbonate. The shales overlying the showing do have a regionally anomalous Cu Pb Zn metal content. The numerous metal occurrences in the area suggest that more significant discoveries may be made..

An aerial examination of the Besa River shales indicates that they may be metal rich between Toad River and Tuchodi River; particularly in the vicinity of Mt. Mary Henry where Zn-Pb showings have been located in the underlying Dunedin Fm. (James 1971, CBC claims)

Based at Robb Lake, the sediments between Kwadacha and Ospika River were examined. Several Zn and Cu oxide occurrences were observed in the vicinity of pyritic shales on which red spring iron deposits were noted. The Akie Showing (minor chalcopyrite-sphalerite) is associated with quartz carbonate veining of slates overlying pyritic shales. This area should be examined in more detail, particularly to the south of the Akie Showing.

RECOMENDATION:

It is proposed that a seven men crew, (3 geologists, 3 assistants and cook) should be engaged in a reconnaissance exploration program, during the 1977 field season to examine the following areas:

- 1) The Gataga River Area
- 2) The Kwadacha River-Bernard Pass Area
- 3) The Akie-Ospika River Area

The object being to follow up on geochemical anomalies and favourable geology indicated by field work during the 1976 field season.

Further a 2 man crew (geologist and assistant) should examine, map and complete a soil sample program over the Rough claims.

The project to be serviced by a Jet Ranger helicopter, and fixed wing support to originate in Watson Lake.

A base camp to be established at North Gataga Lake.

Field work to start in early June and end in late August.

KECHIKA PROJECT

GEOLOGY OF THE CANADIAN CORDILLERA

54°N to 66°N

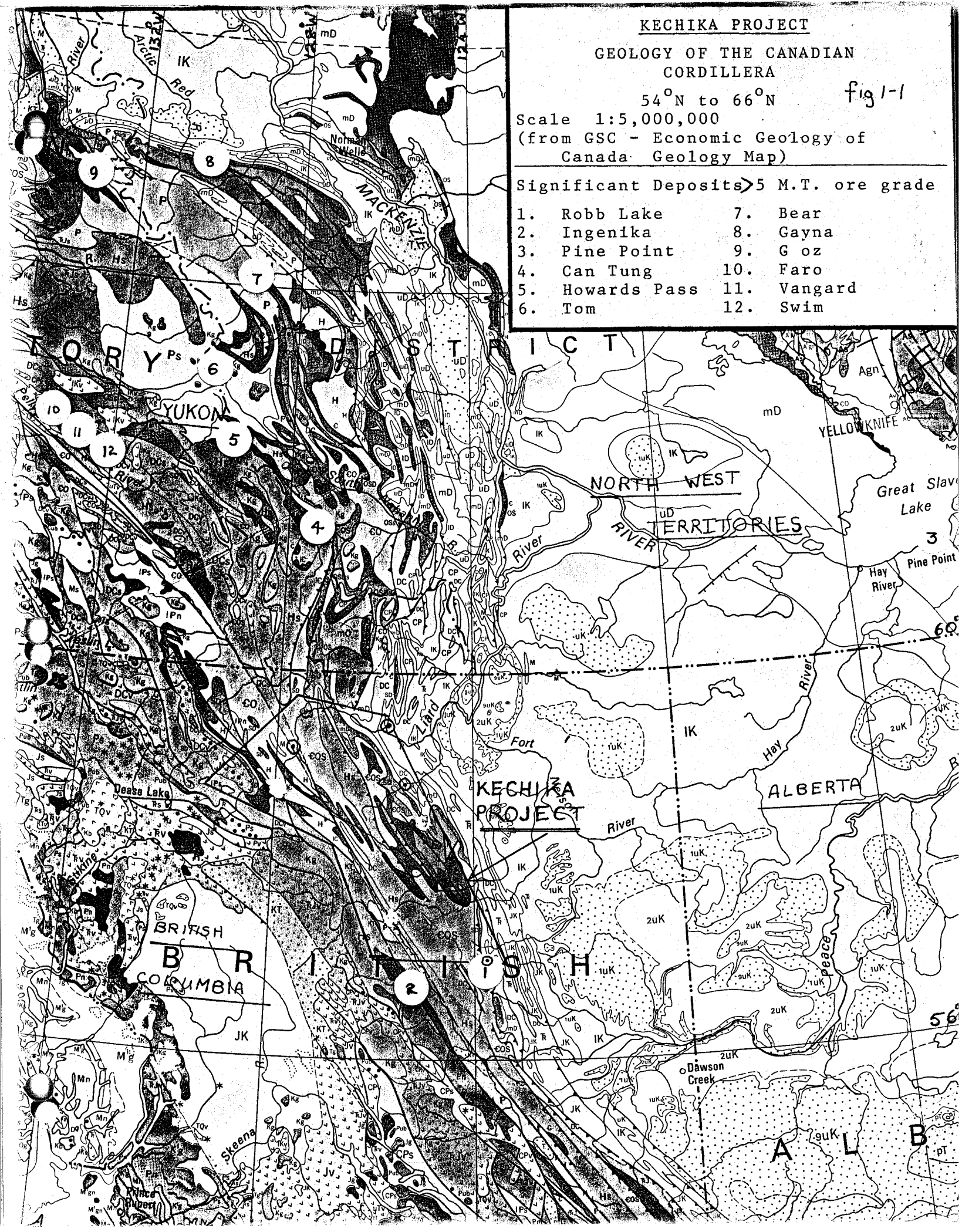
fig 1-1

Scale 1:5,000,000

(from GSC - Economic Geology of Canada Geology Map)

Significant Deposits > 5 M.T. ore grade

- | | |
|-----------------|--------------|
| 1. Robb Lake | 7. Bear |
| 2. Ingenika | 8. Gayna |
| 3. Pine Point | 9. G oz |
| 4. Can Tung | 10. Faro |
| 5. Howards Pass | 11. Vanguard |
| 6. Tom | 12. Swim |



PALAEOZOIC

PERMIAN



P, Ps, Pv



Pub

CARBONIFEROUS
PENNSYLVANIAN

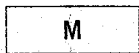


P, Pv



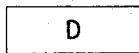
Cg

MISSISSIPPIAN

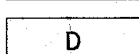


M, Ms, Mv

DEVONIAN



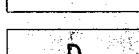
D, Dv, uD, uDv; *may include some Middle Devonian*



mD

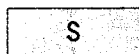


Dg, Dy, Db



ID, ID_s, ID_v, ID_n; *may include some Middle Devonian*

SILURIAN



S, S_s, S_v, IS, ImS, mS, uS

ORDOVICIAN



O, O_s, O_v, uO, mO, IO



Og, Oy, Ob



On



Oub

CAMBRIAN

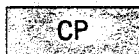


C, IC, mC, uC



C_s, IC_v, C_n

CARBONIFEROUS AND PERMIAN



CP, CP_s, CP_v

PENNSYLVANIAN AND PERMIAN



DEVONIAN AND CARBONIFEROUS



May include some Permian



DC_s, DC_v



DC_{ub}

SILURIAN AND DEVONIAN



SD, SD_s, SD_v

ORDOVICIAN AND SILURIAN



OS, OS_s, OS_v



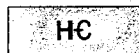
OS_n; *may include some Lower Devonian*

CAMBRIAN AND ORDOVICIAN



CO, CO_s, CO_v

HADRYNIAN AND CAMBRIAN

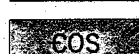


HC_s, HC_n

PALAEOZOIC



OSD, OSD_s, OSD_n; *Ordovician, Silurian, Lower and Middle Devonian*

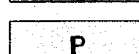


Upper Cambrian, Ordovician, and Silurian

PALAEOZOIC AND? OLDER



Ps, IP_s, *may include some older rocks*



P_n, IP_n, *may include some older rocks*



HADRYNIAN AND PALAEOZOIC



HP_s; *Hadrynian and Lower Palaeozoic; may include some Helikian*

LEGEND TO PALEOZOIC UNITS, GEOLOGY MAP 1:5,000,000

fig 1-2

REGIONAL GEOLOGY

1. Transcurrent faulting in the Rocky Mountain Trench and Tintina Trench

Transcurrent faulting is particularly evident in the vicinity of Ware. A small granite intrusive is seen at Deserters Peak. A similar feature is seen on the west side of the Trench just north of Ware. They are similar in age (46, 47 MY), composition, and have similar geology. They represent the east and west halves of an intrusive, the western portion of which has been displaced 100 km N.W. by a transcurrent fault. These structures are now expressed as major lineaments. Evidence of a numerous small igneous and plutonic features are found along these lineaments. The metamorphosed areas surrounding these features are unusually large. Trace tungsten and copper is noted in the metamorphosed sediments surrounding them. (Boya, Winco, Fox, Pan, Ruby Red and Chowika Creek).

In the SE McDame area there is further evidence of significant displacement along transcurrent faults.

1) North of the Turnagain River between Burnt Rose Lake and Birches Lake, Ordovician phyllitic Kechika Fm is unconformably overlain by a thin Silurian graptolitic siltstone, which is in turn unconformably overlain by Mississippian carbonate. On the eastern side of the Trench the only Mississippian carbonate near the Trench lies north of the east arm of Williston Lake, implying a displacement of 300 km.

2) Immediately west, between Deadwood Lake and Burnt Rose Lake. Ordovician Kechika Fm is overlain by Silurian Sandpile carbonate breccia and Devonian carbonate breccia.

This structural block also appears to be a displaced fault block, explaining the apparent lateral facies differences between the two blocks. It is noted that the thin Atan Fm limestone is similar to the Atan Fm limestone near McDame.

3) Numerous offsets of granite bodies are seen in the Ominica Metamorphic belt to the south.

4) It is noted in passing that the Ingenika Fm is Lower Cambrian in age. It contains numerous trace Zn Pb occurrences, of the Fergusson-Ingenika Mines type, in the Cry Lake area.

5) The transcurrent faults extend southward to Quesnel, then follow the westward edge of the Shuswap Metamorphic Complex. From Quesnel a lineament splays off towards Kamloops, and another splays off down the Fraser Valley.

6) To the north the Tintina Trench is a locus of transcurrent faulting. Up to 500 KM displacement is reported. At latitude 60° 20' N, west of the Trench, the quartzite observed to underlie the Atan FM changes to shale. The source of the clastic material is a problem, paleocurrent indications indicate a NE source. However to the northeast and east, during the Cambrian there was a shale basin. Thus, transcurrent faulting must have moved the western block northward to its present position. Evidence of possible Cambrian age transcurrent faulting may be indicated by Lower Cambrian age volcanics and tuffs on Gataga Mountain and in the Nahanni Valley near Can Tung.

7) No evidence of transcurrent faulting is seen east of the Trench in NE B.C. however the two intrusives in SE Rabbit River map area may be significant.

Significant aeromag anomalies are reported to coincide with intrusives.

In the northern Rocky Mountains northeast of the Trench the sedimentology of the Lower Paleozoic formations and present facies distribution indicate that facies changes were abrupt. An easterly sandstone and carbonate facies changes westerly and northwesterly to shale and siltstone. Shallow water facies are found closer to the Trench in the vicinity of Williston Lake, than is apparent in the Ware area. That the northern Rocky Mountain Trench formed a distinct boundary in terms of depositional environment is apparent from the present distribution of Lower Paleozoic strata. Similar facies change relationships are observed in Ware and Toodoggone map areas in relation to Lower Cambrian clastic rocks.

In the Gataga area sedimentological studies suggest that the Cambrian carbonates mark a significant facies anomaly, possibly the result of major transcurrent displacement along a fault zone coincident with the Rocky Mountain Trench.

2. Geology of the area west of the Kechika River in the vicinity of the Turnagain River.

The relief west of the Rocky Mountain Trench is extreme-rising from 2500 feet elevation in the valley floors, to northwest southeast trending ridges at 6500 feet elevation. The hills are covered in dense underbrush to an elevation of 6000 feet. Much of the area has been burnt by forest fire (1946). Steep brush covered hillsides are capped by bare limestone cliffs. The area has been deeply glaciated and many glacial features are found in the U-shaped valley floors. Glacial erratics are common and have been transported in a generally northwesterly direction. Surface drainage in this area is largely restricted to spring melt water runoff. The hillside drainage gullies are deeply incised. Significant subsurface drainage is active in the area, resulting in numerous artesian springs, (south end Birches Lake). Although no major cavern systems are reported in the area solution of limestone results in Ca CO₃ concentrations high enough, to permit precipitation of carbonate, forming concretions along the shoreline of many lakes in the area.

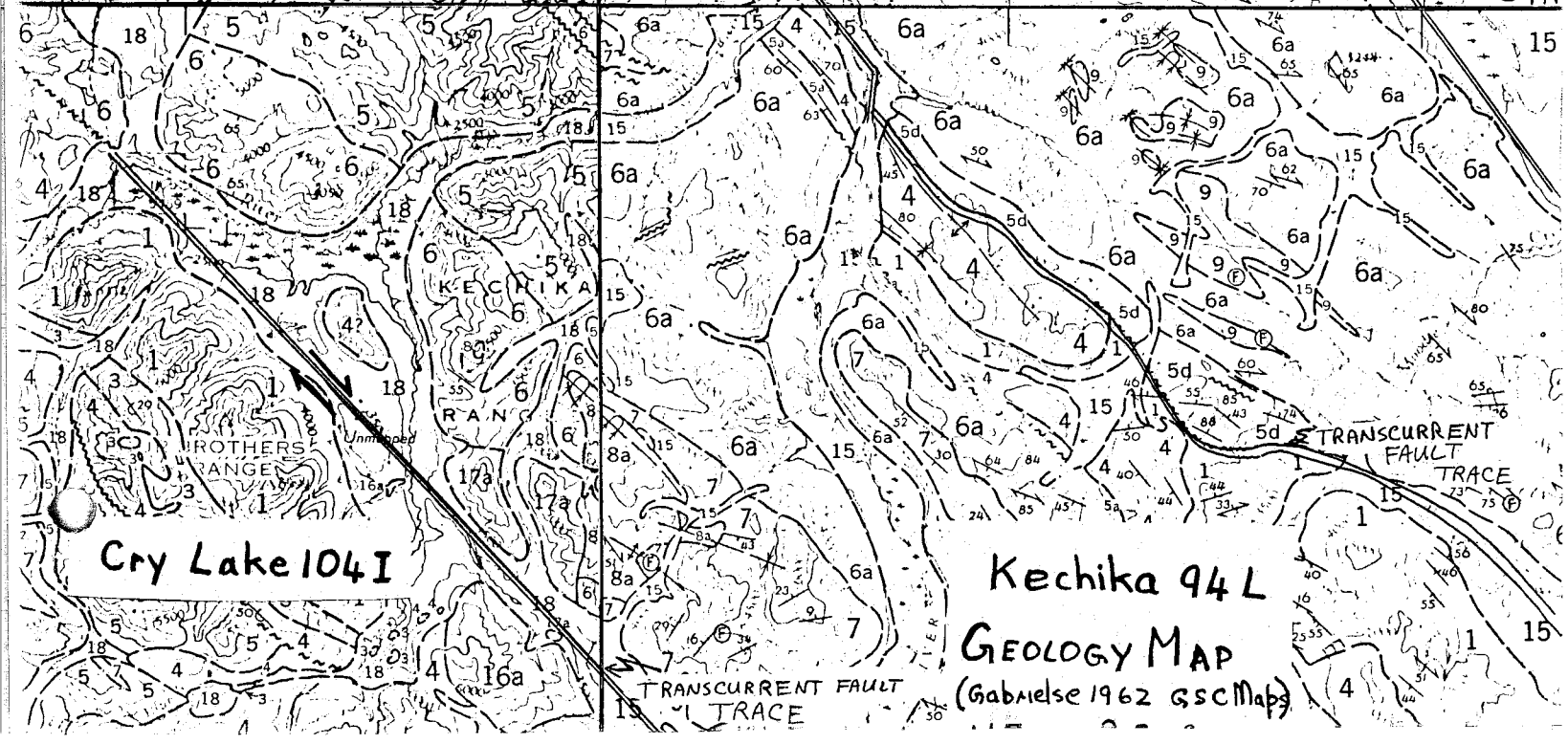
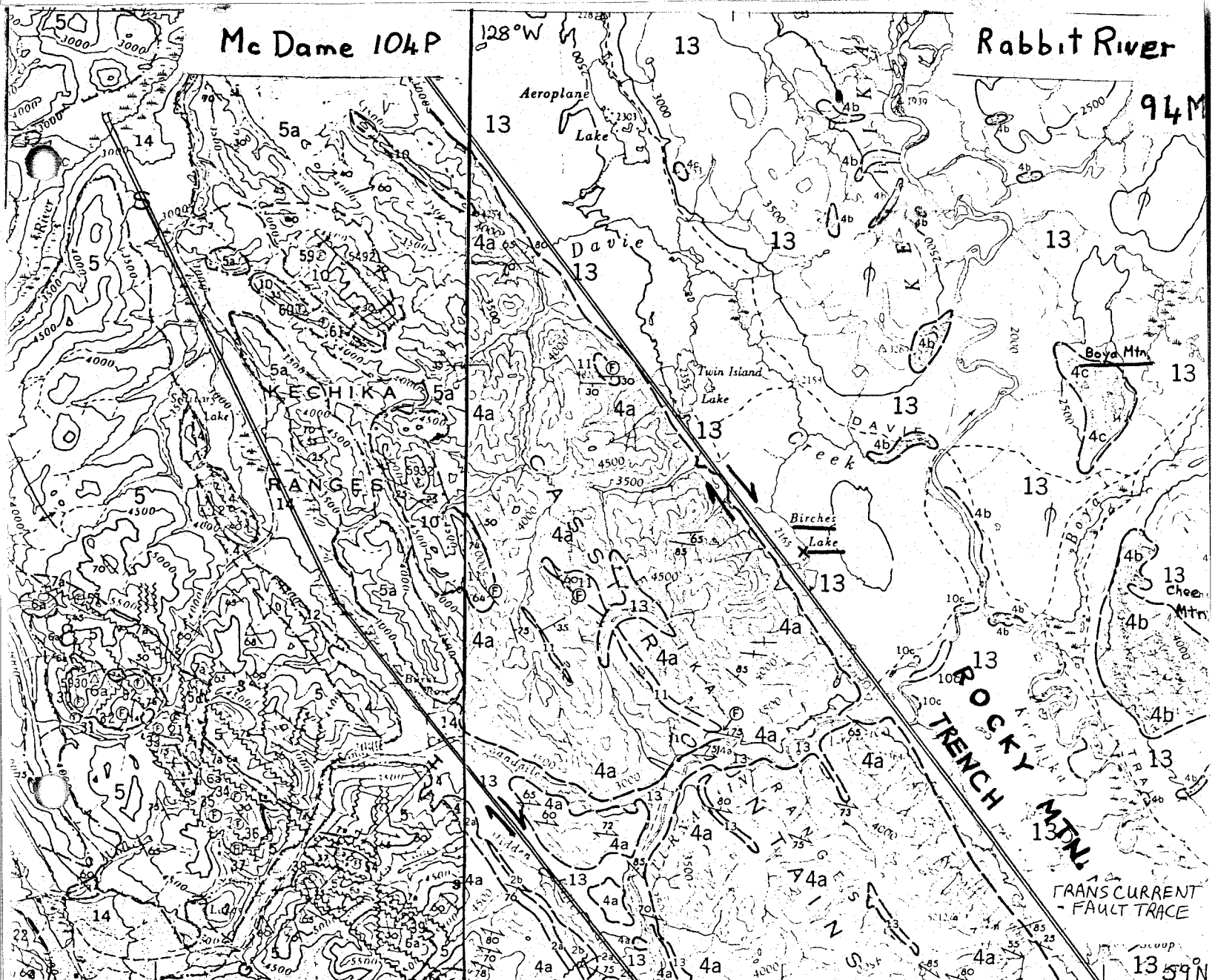
A thick section of Cambrian sandstones is overlain by a thin carbonate Atan Formation west of Solitary Lake. East and west of Solitary Lake the Ordovician Kechika Formation is comprised of siltstones, slates and argillaceous carbonate. There is a very strong micaceous slaty cleavage parallel to the axial plane of the folding. Poor exposure makes it difficult to make a direct comparison of the two sections. However, there are significant variations. The Hidden Valley Creek copper showing was examined 104-P-1(1). Spotty and bleby chalcopyrite is associated with white quartz pseudo bedding, which is interbedded with a green micaceous phyllite through 75 feet of section. The grey slate footwall and hanging wall are unmineralized. In some areas the sulphides have been deeply weathered. Numerous similar occurrences are found at approximately the same horizon over 14 miles to the northwest. The distribution of these occurrences along strike is erratic and the copper values are low.

Folding of the Kechika Formation, prior to deposition of the Silurian sediments east of Solitary Lake, resulted in thin Silurian carbonaceous graptolitic shales being deposited in broad synclinal troughs. West of Solitary Lake Silurian Sandpile Formation carbonate breccia overlies the Kechika formation. Chert and pyrite nodules are noted in some areas. The Sandpile carbonates are overlain by similar McDame Formation carbonate breccia. Chert and pyrite are more common in the McDame Formation near the Turnagain River. In this area the McDame carbonate is overlain by black shales of Late Devonian age. Brecciation probably resulted from the loss of evaporites. East of Solitary Lake the Silurian graptolitic shales are unconformably overlain by fossiliferous limestone of the Mississippian Nizi Formation. Eighteen miles south east of Deadwood Lake a post Laramide rhyolite extrusive center was examined.

Mc Dame 104P

128°W

Rabbit River



Kechika 94 L
GEOLOGY MAP
 (Gabrielse 1962 GSC Map)

TRANSCURRENT FAULT TRACE

Stream sediment sampling (Deighton 1971) failed to pick up any significant response downstream from the Hidden Valley Creek Showing even though specular hematite and quartz-chalcopyrite boulders were found up to 4 miles downstream.

The McDame and Sandpile carbonate breccias are marked by red stained creeks at several locations. These streams have highly anomalous Cu, Pb Zn values, particularly where the streams emerge at the foot of talus slopes below cliffs of these units. The staining appears to be a result of leaching of the pyrite nodules in the cherty carbonates. The breccia does have a limonite matrix which can give anomalous Cu Pb Zn values in rock chip grab samples. The Vale Showing 104-P-1 (2) (Zn, Pb) south of Sandpile Lakes is reported to be hosted in the carbonate breccia. No evidence of Zn Pb sulphide mineralization was found.

An interesting sphalerite float occurrence is noted on Rapid River near the mouth of the creek running out of Looncry Lake. The source of this mineralization has never been located. (Gabrielse 1963 Map 1110A Geology of the McDame Map Area NTS 104 P).

Further geological details of this area are reported by:- Gabrielse 1962 GSC map 29-1962 Geology of Cry Lake NTS 104 I,
~~Gabrielse~~ 1962 GSC map 42-1962 Geology of Kechika NTS 94L,
~~Gabrielse~~ 1963 GSC map 46-1962 Geology of Rabbit River NTS 94 M

No further work should be done in the area at this time.

3. Geology east of the Kechika River opposite the mouth of the Turnagain River.

The Liard Plateau is an area of relatively low relief. Large plateau areas and ridges have an elevation of approximately 3300 feet. Broad valley floors are marked by glacial outwash scour channels at 2000 feet elevation. There are numerous reports of glacio-lacustrine deposits in the area. The entire area is heavily treed (poplar, jackpine) and the underbrush is full of deadfalls. Overburden is thin but only on the highest areas or steepest slopes is there any outcrop. Southeasterly facing slopes are particularly steep.

The tectonic structure of the Liard Plateau is similar to that to the south in the Rocky Mountains. Broad folds of resistant clastic sediments (Unit 1) of Proterozoic age are overlain by siltstone, phyllitic limestones and cherty shales (Unit 4a, b, c) of possible Cambro-Ordovician age. On Horneline Creek the cherty shales contained many pyritic nodules and white quartz pseudo-bedding. The Cambro-Ordovician sediments are overlain by silvery seritic phyllites (Unit 10a) (see fig. 3-1) poor outcrop exposure and heavy tree cover effectively prevents detailed examination of structure in the area and delineations of favourable facies changes. No significant facies trends were recognized. Regional metamorphism has developed a micaceous cleavage in the rocks. The micaceous cleavage is normally parallel to primary bedding.

Evidence of a significantly higher temperature metamorphism is seen on Chee Mountain where some coarse grained recrystallized limestone is noted, and on Boya Mountain 7 miles northwest where a pyrite, pyrrhotite, chalcopyrite, scheelite, sphalerite showing has been located associated with green skarn. Rock chip grab samples of the green skarn and associated siltstone give highly anomalous values, 40-1880 ppm Cu (see relevant memo, this report), through approximately 500 feet of section. No intrusive bodies are exposed in the immediate area.

The area is located in the southwestern quadrant of the Rabbit River geology map. (Gabrielse 1963 GSC map 46-1962 NTS 94-M-SW 1/4).

A helicopter-magnetic survey and soil sampling follow up program would indicate the presence of any massive sulphide-skarn occurrences along strike.

4. Geology of the Liard Bridge Area (south and west of the Alaska Highway)

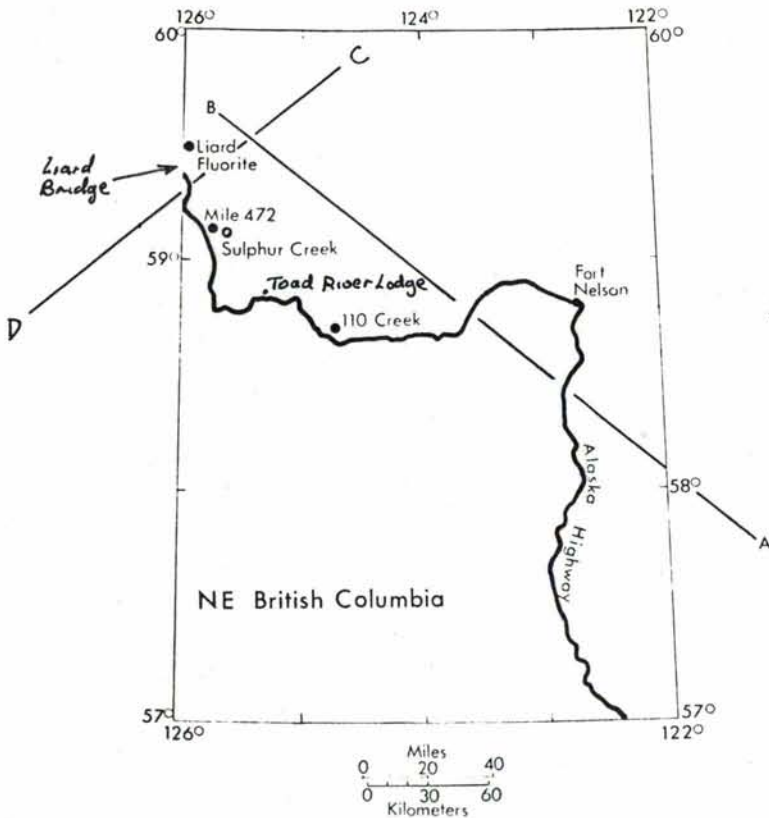
Interest in this area centered about Unit 7, a bleached carbonate breccia of Devonian age. No stratigraphic evidence was found to suggest that the breccia developed as a facies change, slope avalanche debris. The brecciation may have developed as a facies change, slope avalanche debris. The brecciation may have developed as a result of loss of evaporite beds. Unit 8 is also brecciated in some areas. Several stratabound fluorite barite bodies are located between 110 Creek and Liard Bridge (see schematic section fig 4-2) The contact with the overlying Besa River Shales (Unit 9) was not present in the area examined. The Nonda Formation (Unit 5) underlying the Devonian carbonate section (see schematic section fig 4-3) is a dark grey fossiliferous limestone. It is underlain by a thick section of carbonates and limy carbonates which grade downward to siltstones and dark slates of Ordovician or older age. Unit 3b a polymictic conglomerate is now believed to be Proterozoic in age. Unit 1, maroon and green shales, is also believed to be Proterozoic in age.

Variation in thickness of the section and apparent lateral facies change (see schematic section fig 4-3) were noted (see geology map Fig 4-4) and were assumed to be facies pinchouts, reflecting minor tectonic instability of the Tathlina Arch and Macdonald Platform structures. A lack of significant lithological variations however suggest that the pinchouts mark erosional truncation of the relevant formations. This combined with post Cretaceous, pre Laramide erosion, and possible recurrent activity of the normal fault west of Long Mountain, have removed the potential host rocks for Pb-Zn mineralization. Outcrop exposure is poor in the wide valley floors.

On Vents Creek a small volcanic center was examined. Volcanic greenstone bands are found in Unit 8 carbonates. Evidence of extreme wall rock alteration was found in float in Vents Creek, however, no distinct contact metamorphism aureole was seen. Epidote is associated with quartz veining. A large well defined aeromagnetic anomaly is associated with the volcanic vent, suggesting that the feature is post Laramide in age.

Geological maps are available for this area (Gabrielse 1963 GSC map 46-1962, Geology of Rabbit River 94-M)

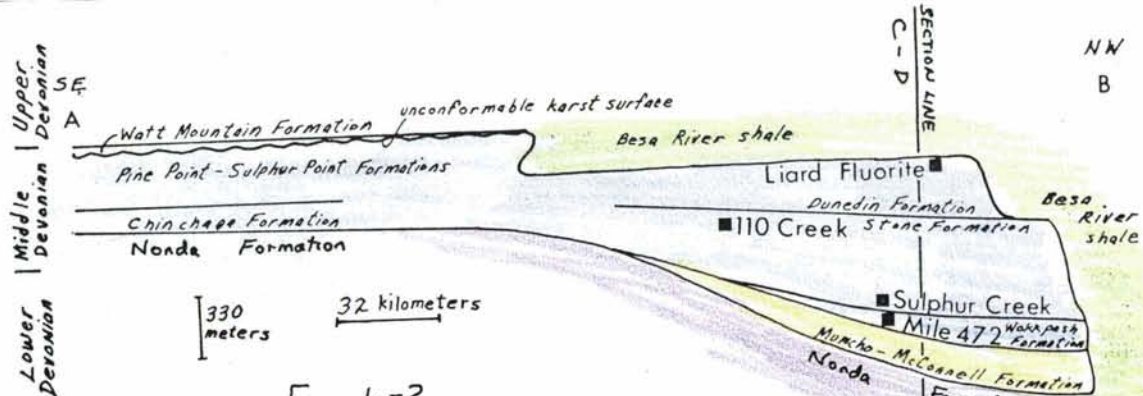
Analysis of rock chip grab samples gave no indication of any significant metal concentration in this area.



Stratigraphy of North-Eastern British Columbia In the Vicinity of the Alaska Highway.

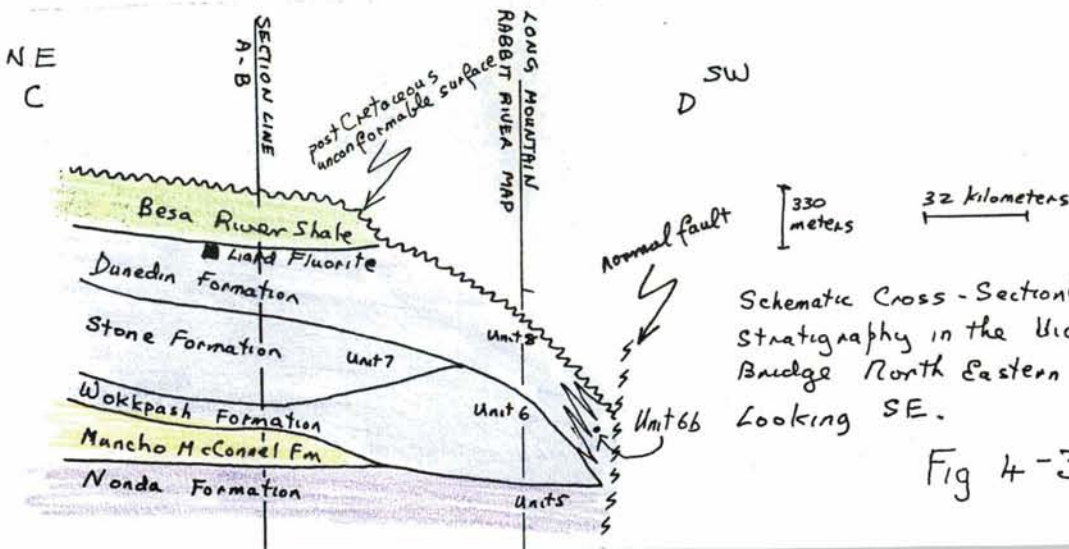
Index map showing location of the Sulphur Creek, 110 Creek and Mile 472 barite deposits and the Liard Fluorite deposit.

Fig 4-1



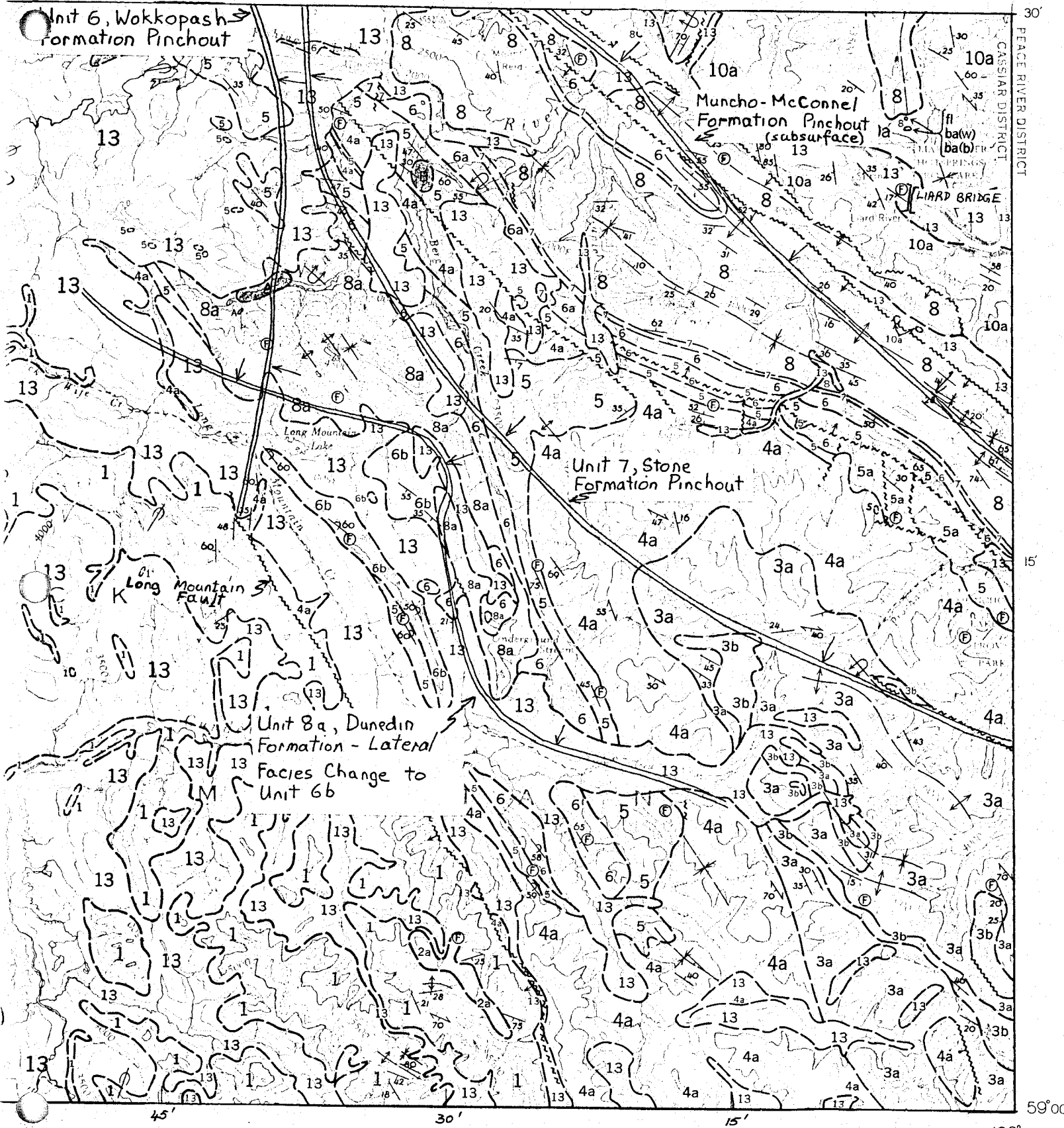
Schematic cross-section showing stratigraphic setting of barite-fluorite deposits in northeast British Columbia. Line of section is on map above. Looking South West

Fig 4-2

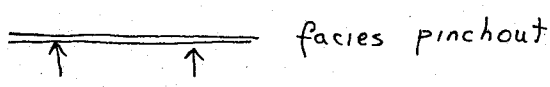


Schematic Cross-Section (C-D) Showing the Stratigraphy in the Vicinity of Liard Bridge North Eastern British Columbia Looking SE.

Fig 4-3



Scale 1:250,000



MAP 46-1962
RABBIT RIVER
BRITISH COLUMBIA
SHEET 94M SE 1/4
Fig. 14-4

CASSIAR DISTRICT
PEACE RIVER DISTRICT

59°00'
126°00'

5. Geology of the Gataga River Area

The range of hills lying between Toad River and Gataga River rise to over 7000 feet, with only a few low level passes at 5500 feet elevation. The treeline lies at 5000 feet, bare hillsides are grass or talus covered. The Gataga River runs down the eastern side of the forested valley, which has been scoured by alpine glaciers. There are many whale-back features and small elongate lakes. The Gataga River rises at the Lloyd George and Churchill glaciers. Netson Lake lies to the north in a deeply incised valley at the western edge of the same range of hills as the Gataga River. This valley is also heavily forested below 5000 feet. The area of principle interest to this report lies between Gataga River and the Kechika River. This range of hills rises steeply from the Gataga Valley to over 6000 feet. The hills are largely grass and moss covered, the treeline lying at 3500 feet. The hills, form broad hogback, rolling ridges, except where steeply dipping limestone forms spires and cliffs. The rivers form consequent drainage patterns draining in a generally westerly direction. The tributaries are precipitous and deeply incised. The Kechika River lies in a subdued valley which drains northward in the Rocky Mountain Trench from the Sifton Pass watershed. The hills lying to the west are heavily forested to over 5500 feet.

Numerous hydrozincite, sphalerite and malachite occurrences have been noted in the vicinity of the Rough Showing, Driftpile Showing and D,P Showing (Placer). For details of these mineral occurrences see relevant memos, this report. The Zn, Cu located by prospecting was confirmed by rock chip geochemistry. Several significant Cu, Pb, Zn and V geochemical anomalies were obtained which will be examined by prospecting during the 1977 field season.

The oldest rocks in the area are of Hadrynian age. Greenish grey green chloritic phyllites and slates with minor amounts of maroon slates, sheared greenstone lenses and poorly sorted sandstones are exposed. These sediments have been metamorphosed to low greenschist facies. The upper contact is conformable with Cambrian Atan rocks. The argillaceous rocks within the Cambrian exhibit no evidence of metamorphism. This is a feature which is more often noted west of the Trench.

The Cambrian Atan Formation (Unit 4, 5c) paraconformably overlies the Hadrynian rocks. Two main facies have been mapped within the Atan Group, an eastern and lower clastic facies and a western partly coeval carbonate, shale facies. The carbonate is commonly brecciated but the upper units consist of fine grained blue limestone.

The upper contact is marked by black shale wisps, black shale and carbonaceous limestone lenses, limestone breccia pods intertonguing with the overlying black shales. Sediments near the contact are commonly isoclinally folded, and the contact is faulted locally. Sphalerite, galena and pyrite are associated with the black shale lenses and carbonaceous limestone lenses. Minor sphalerite, galena, chalcopyrite and barite are associated with sparry calcite in the limestone breccia pods. Sphalerite, pyrite and barite are associated with the intertonguing limestone and shale. Soil samples collected less than 100 stratigraphic feet above the contact have given high metal values on the Rough Claims.

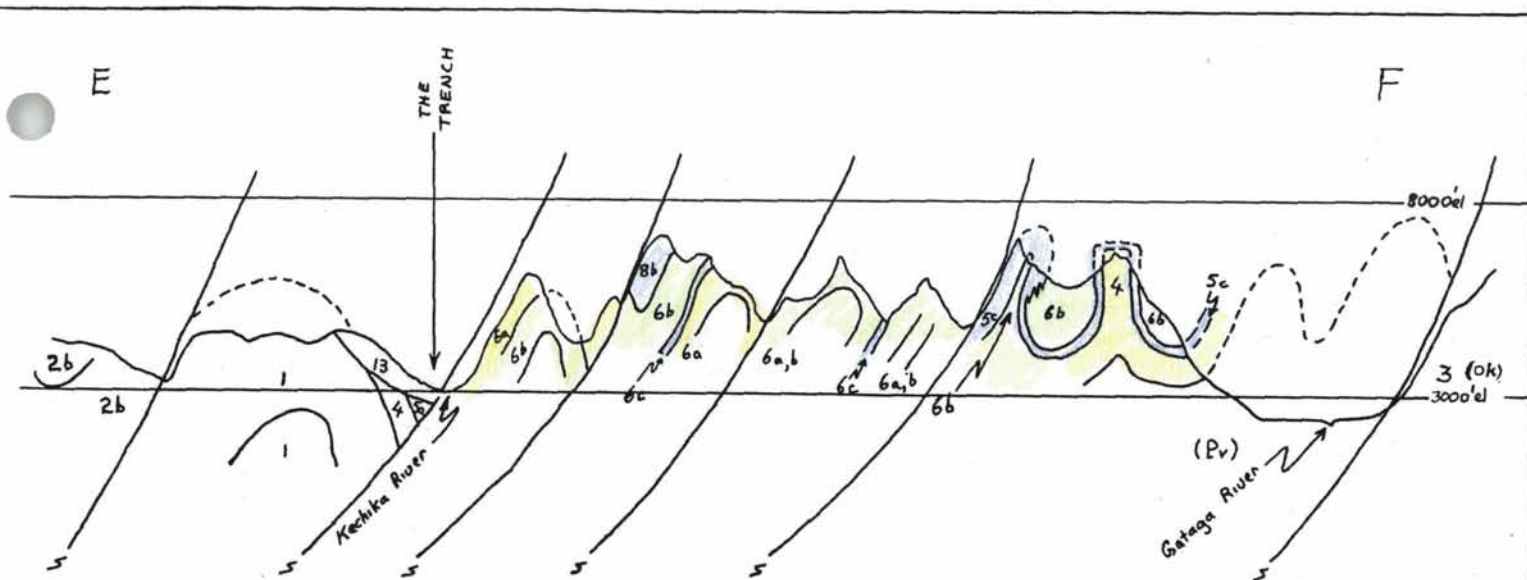
The Kechika Formation is comprised of black carbonaceous graptolitic shales, the basal portion of which is pyritic at the Rough Claims. A long biserial graptolite 2-1/2 to 3 inches long with a 1/3 curled end is common. Bedded black barite is also common. The Kechika Formation is reported to contain some Silurian graptolites in its uppermost beds. The entire Kechika Formation black shale is tightly folded and its true thickness may be relatively thin (Unit 6b)

Unconformably overlying the Kechika Formation is a thick section of Devonian Mississippian siltstones, carbonaceous shales and black, well sorted sandstone, in the basal portion of which is carbonaceous black shale, bedded black barite and massive bedded framboidal pyrite exhibiting sedimentary compaction features. (Unit 6a) Many of the large springiron deposits appear to result from oxidation of the bedded pyrite. An assay of the bedded pyrite at the D,P Showing assayed .96% Zn, .56% Pb. Massive galena float has been located on the D,P claims but has not been found in outcrop. Numerous high Zn and V values have been obtained. The stratigraphy of Unit 6a and 6b is not sufficiently well known to permit accurate mapping at this time.

The stratigraphic relationship between Unit 6c, possibly Cambrian age carbonate, and Unit 8c a fossiliferous Devonian carbonate to the Atan, Kechika and Devonian Mississippian black shales is not clear.

The geology of the area between Split Mountain and Terminus Mountain is very similar to that in the Gataga area.

The geology of the Netson Lake area is less clear however. Ordovician age graptolitic grey siltstones (2 ridges east of Netson L.) underlie, or are a more easterly facies, of Ordovician graptolitic siltstones and slightly carbonaceous shales. Oxidation of pyritic black shale results in some small red gossans on the ridge east of Netson Lake. These are in turn overlain by a thick section of black shales and argillaceous limestones which are exposed in a canyon which drains westwards joining Netson Creek 1 mile north of Netson Lake



This section based on GSC map 42-1962 and field work completed during the 1976 field season. P.B.

Fig 5-1

THE GATAGA RIVER AREA
Looking North West

Geological Cross Section

Horizontal scale 1:250,000 - 1" = 4m;
Vertical scale 1:60,000 - 1" = 500'
NTS 94-L, SE 1/4

DEVONIAN AND MISSISSIPPIAN

UPPER DEVONIAN AND LOWER MISSISSIPPIAN

- 8 8a, argillite, siliceous argillite, chert; 8b, siltstone, sandstone, chert-pebble conglomerate; age tentative; 8c, agglomerate, vesicular greenstone, tuff; age tentative; 8d, greenstone, limestone, hornfels; may be younger

CAMBRIAN AND ORDOVICIAN

MIDDLE (?) AND UPPER CAMBRIAN AND ORDOVICIAN

- 6 6a, limestone, phyllitic limestone, calcareous phyllite, phyllite, argillite, sandy limestone, sandstone, limestone-cobble conglomerate intruded by greenstone sills and dykes; mainly Lower Ordovician and earlier; 6b, graptolitic and pyritic shale, slate, and siltstone, calcareous shale, argillaceous limestone; mainly post-Cambrian; chert, pebble conglomerate; may include some 8b; 6c, limestone; may be in part older or younger than 6

CAMBRIAN

LOWER CAMBRIAN

- 5 5a, limestone, in part oolitic, dolomite; minor slate and shale; 5b, oolitic and sandy dolomite, limestone; 5c, limestone, oolitic and sandy dolomite and limestone, limestone conglomerate, chert-nodule limestone, sandstone, siltstone, shale; may be in part equivalent to 4; limestone conglomerate may be Middle (?) Cambrian; 5d, may be Precambrian

- 4 Quartzite, pebble conglomerate, siltstone, slate, shale

PRECAMBRIAN AND CAMBRIAN

PRECAMBRIAN AND LOWER AND MIDDLE CAMBRIAN

- 3 Sandstone, siltstone, slate, shale, calcareous sandstone, red and green slate and shale, limestone-cobble and boulder conglomerate, quartz-pebble conglomerate; minor dolomite and black, pyritic shale in highest beds

PROTEROZOIC AND LOWER PALAEOZOIC (?)

- 2 2a, quartz-mica gneiss, quartzite, crystalline limestone, hornfels, skarn, feldspar-quartz gneiss; Cambro-Ordovician (?) and earlier; 2b, calcareous phyllite, phyllite, micaceous quartzite, schist, granitic gneiss, crystalline limestone, limestone, greenstone, pegmatite, hornfels; may be Cambro-Ordovician and earlier

- 1 Limestone, buff and grey shale, sandstone, phyllite, sandy limestone and dolomite, chlorite and muscovite schist, slate, argillite, micaceous crystalline limestone, pebble conglomerate, red and green slate and shale; locally includes small sills and dykes of greenstone; may include some Cambrian rocks

Fig 5-2

Some anomalous Cu values were obtained from rock chip grab samples in this area.

A detailed description of the geology may be obtained from reports by Taylor and Stott 1973 GSC Memoir 373 NTS 94K and Gabrielse 1962 GSC Map 42-1962 Geology of Kechika NTS 94L.

The rolling hills west of the Gataga River are very distinctive particularly where a bright green grass is found. Large red springiron deposits are also common. Shale fragments, organic material and quartz vein fragments are commonly found cemented by a ferruginate material. These springiron deposits commonly cover several acres. A bronze, green weathering, copper vanadium sulphide has been identified from quartz veins and a black crystalline limestone band in shale has been identified at one location. The mineralization is hosted in Ordovician age Kechika Formation. The shale contains barium, zinc, silver, manganese, vanadium and iron in higher than average amounts and the zone is weakly radioactive. The gossans are large and spectacular. (Rose 1973 GSC Economic Geology Report #27-Vanadium)

Attention will be focused on the Gataga Area during the 1977 field season, (Kechika Project 1977).

6. The Geology of the Kwadacha River-Pesika Creek Area

The northern Rocky Mountains can be subdivided into three distinct topographical elements. The western portion, lying within eleven miles of the Trench is a sombre coloured range with a number of prominent limestone peaks. Local relief between the Findlay River and these peaks may be up to 5000 feet. Typically the peaks of this range sustain vegetation to high elevations thus enhancing the dark colours resulting from weathering of dark coloured rocks. East of this range light weathering colours reflect a siltstone and phyllitic carbonate bed-rock, contrasting sharply with underlying black shales in the vicinity of which occasional red springiron deposits are noted. The black shales form precipitous hillsides below the treeline and rolling grass covered ridges above. The siltstones and phyllitic carbonates form spires and cliffs. This range of hills is approximately fourteen miles wide. The third range of peaks are light coloured and massively bedded, reflecting the dominantly carbonate bed-rock. These mountains are generally rugged and contain numerous cirques. They form the Rocky Mountain watershed. There are numerous alpine glaciers. This report is most concerned with the central range of hills.

The higher ranges of the northern Rocky Mountains prevented ice movement to the east although some low passes were filled with ice at the later stages of glaciation. Evidence of alpine glaciation is abundant throughout the area. Deeply incised drainage channels dominate local topography along the side of valleys. Drainage from the east was blocked by ice in the Trench at a time when the valleys were largely ice-free to the east, resulting in the impounding of lakes. Small areas of glacial silt along the sides of Kwadacha, Akie and Ospika Rivers are indications of the lakes.

The range of hills lying between the Kwadacha River at the headwaters of Paul River, and the watershed between Pesika Creek and Ospika River was the area in which interest was focused.

Black pyritic shales can be roughly correlated across the area. Locally, Ordovician graptolites have been found. However the structural and stratigraphic relationship between the fossil locations, even on a local scale, is only tentative. The pyritic shales are overlain by a thick section of grey siltstones and carbonates in which Silurian and Devonian graptolites have been found.

Numerous copper stain traces have been noted in this area associated with milky-white quartz veining which cuts the black carbonaceous shale. Zinc oxide traces are also common. At the Akie Showing minor chalcopyrite and sphalerite have been found exposed by a recent avalanche, on the west side of a deeply incised tributary stream on the south side of the Akie Creek. A pale red stain zone attracted attention to the area.

Several red stains in gullies approximately 100 feet down section indicate the presence of black pyritic shales. White quartz veins cross cutting siltstone were found associated with minor chalcopyrite and sphalerite.

The red springiron deposits associated with black pyritic shales are reported to have highly anomalous metal contents.

Reports of a similar style mineralization are made for the Copper King and Extension Property 94-F-2(1). Significant copper values are reported over a 5000 foot strike length. Attempts to locate this showing were not successful.

Trace malachite was noted at the brecciated upper contact of a 50 meter band of volcanic pyroclastics, with phyllitic limestone, 4 miles south of the headwaters of Paul River. Lower Ordovician age graptolites have been identified above and below the volcanic horizon.

Three miles to the west buff-blue fossiliferous limestone of Devonian age is noted which unconformably overlies Ordovician or Silurian age dark shales.

There are several other reports of mineralization in the immediate area, Akie River Showing Cu 94-F-8(1) Chowika CK Cu 94-E-15(1) and Ruby Red Creek Cu 94-C-15(2).

Geological details on the area of interest may be found in reports by: Tedrick 1962 MSc Thesis, Ordovician Geology of the Prophet River Map Area, (U of A). Davis 1966 PhD Thesis, Ordovician and Silurian of the Northern Rocky Mountains, (Uof A). Gabrielse 1975 GSC paper 75-33, Geology of Fort Grahame E 1/2 Map Area. Gabrielse 1975 sketch map-preliminary draft, Ware W 1/2 Map Area. No detailed geological maps of the immediate area of interest are available.

The prospecting and geochemical results were interesting in this area.

GEOCHEMICAL PROGRAM RESULTS

Examination of the metal values obtained from geochemical analysis of rock chip samples indicate that those results listed below are "highly anomalous ie.

$\bar{x}+2\Delta$. The assigned significance of the metal value is indicated in the Comment column (A-Most Significant, B-Interesting, C-Least Significant, X-mineral occurrences).

Metal	$\bar{x} + 2\Delta$	ppm Value	Sample	Traverse	Comment		
Cu	63	80	KA1680	94-C-16(b)	See Zn Sample KA1680		
		144	KA1684	"	B-- pyritic black slate		
		244	KA1647	94-F-1(d)	A-- slate		
		82	KA1671	94-F-7(d)	C-- black slate		
		81	KA2195	94-F-7(e)	X-- pyritic shale Akie		
		410	KA1701	94-F-10(a)	A-- bx volcanic-tr Showing		
		48	KA2139	94-F-7(c)	C-- black argillite		
		Pb	43	47	KA1671	94-F-7(d)	See Cu Sample KA1671
				Zn	324	460	KA1680
		720	KA1681			"	A-- slate bx. Zn oxide
390	KA1685	"	C-- black slate				
580	KA1664	94-F-1(f)	C-- ls. bx				
1600	KA2196	94-F-7(e)	X-- rusty float				
420	KA2197	"	X-- black shale Akie Showing				
Cu	68	82	KA 97			94-K-4(b)	C-- black carbonaceous slate
		70	KA 99			"	C-- springiron
		214	KA102	"	B-- massive pyrite		
		240	KA1427	94-K-4(d)	See Zn Sample KA1427		
		630	KA1428	"	See Zn Sample KA1428		
		116	KA 131	94-K-4(i)	C-- black slate		
		148	KA5018	94-K-4(k)	B-- black slate		
		120	KA1574	94-K-4(f)	C-- arg. ls		
		Pb	72	300	KA 105	94-K-4(l)	See Zn Sample KA105
				190	KA 106	94-K-4(l)	See Zn Sample KA106
330	KA 109			"	X-- shale float, D,P Claims		
260	KA 119			"	X-- black slate float, "		
1400	KA 120			"	X-- springiron, "		
5600	DPP5			"	See Zn Sample KA DPP5		
- 11700	KB 17			"	X-- Pb in float, D,P Claims		
108	KA 121			94-K-4(a)	C-- graptolitic barite slate.		
136	KA 102			94-K-4(b)	See Cu Sample KA 102		
410	KA 134			94-K-4(i)	See Zn Sample KA 134		
73	KA 5011	94-K-4(k)	See Zn Sample KA 5011				
77	KA 1575	94-K-4(l)	C-- limonitic slate				
Zn	261	- 7500	KA 1710	94-F-13(b)	A-- springiron gossan		
		- 15500	KA 1712	"	A-- "		
		- 3700	KA 1713	"	A-- "		
		555	KA 1716	"	A-- "		
		285	KA 105	94-K-4(l)	X-- qtz-calcite float, D,P Claims		
		700	KA 106	"	X-- "		
		9600	DPP5	"	X-- pyrite bed Zn Pb, "		
		800	KB 17	"	See Pb Sample KB 17 "		
		390	DPP 3	"	C-- black baritic shale		
		386	KA 2095	94-K-4(a)	C-- black mudstone		
780	KA 2100	"	A-- stream gravel sample				

		1,460	KA 1425	94-K-4 (c)	A--	springiron	
		950	KA 1427	94-K-4 (d)	A--	springiron	
		1,080	KA 1428	"	A--	"	
		930	KA 1452	94-K-4 (f)	A--	slate	
		550	KA 130	94-K-4 (i)	B--	springiron	
		1,030	KA 133	"	A--	blue slate	
		560	KA 134	"	A--	black slate	
		950	KA 129a	"	A--	springiron	
		600	KA 135	94-K-4 (i)	B--	springiron	
		352	KA 5011	94-K-4 (k)	C--	bx. ls.	
Cu	77	1,160	KA 3041	94-K-4 (o)		See Zn Sample	KA 3041
		130	KA 1583	94-K-4 (p)		"	KA 1583
		1,740	KA 1587	94-K-4 (g)		"	KA 1587
		11,800	KA 1586	"		"	KA 1586
		920	KA 5030	94-K-4 (t)		"	KA 5030
		100	KA 5033	"		"	KA 5033
		0.12%	KA 5034	"		"	KA 5034
Pb	92	95	KA 1601	94-K-4 (s)	C--	pyritic calc shale	
		95	KA 1604	"	C--	"	
		550	KA 5030	94-K-4 (t)		See Zn Sample	KA 5030
		420	KA 5031	"		"	KA 5031
		930	KA 5033	"		"	KA 5033
Zn	269	19.35%	KA 3041	94-K-4 (o)	X--	Sphalerite, Ca/Okg Showings	
		6%	KA 1582	94-K-4 (p)	X--	"	"
		26.15 %	KA 1583	"	X--	"	"
		310	KA 1587	94-K-4 (g)	X--	Cpy, Sph	"
		2,250	KA 1584	"	X--	black slate	"
		760	KA 1585	"	X--	pyritic ls.	"
		360	KA 1586	"	X--	Cpy.	"
		18.7%	KA 5030	94-K-4 (t)	X--	Sphalerite	"
		17,000	KA 5031	"	X--	"	"
		6.95%	KA 5033	"	X--	"	"
		1,540	KA 5034	"	X--	Sphalerite Cpy"	
		330	KC 2138	94-K-4 (u)	C--	Stream Sed Sample	
		825	KA 3050	94-K-4 (w)	X--	Ba, Sph, Fl, Ca/Okg Showings	
		2,040	KA 1514	94-K-5 (b)	A--	limonite	
		600	KA 1507	94-K-6 (c)	B--	ls. bx. Zn oxide	
Cu	86	100	KA 2110	94-L-1 (c)	C--	black arg. chert pyritic	
		110	KA 1462	94-L-1 (f)		See Zn Sample	KA 1462
		153	KA 1462a	"		"	KA 1462a
		1,100	KA 3023	94-L-1 (h)	A--	Qtz Carb vein, Cpy Malachite	
Pb	115	3,900	KA 2121	94-L-1 (g)	A--	black carb shale trZnPb	
		6,100	KA 2129	"	A--	slate breccia, pyritic	
		126	KA 5009	94-L-1 (h)		See Zn Sample	KA 5009
		360	KA 2126	94-L-1 (i)		"	KA 2126
		200	KA 1472	94-L-1 (e)		"	KA 1472

		128	KA 1473	"	"	KA 1473
		180	KA 1474	"	"	KA 1474
		185	KA 1481	"	"	KA 1481
Zn	289	315	KA 2113	94-L-1(a)	C-- black shale	
		400	KA 117	94-L-1(d)	C-- black slate	
		1,050	KA 1460	94-L-1(f)	A-- slate	
		5,000	KA 1462	"	A-- breccia	
		2,100	KA 1462(a)	"	A-- " trZn	
		1,760	KA 2122	94-L-1(g)	A-- black shale trZn	
		310	KA 2130	"	C-- Slate breccia	
		530	KA 3020	94-L-1(h)	C-- pyritic siliceous mud-	
					C-- stone	
		310	KA 3025	"	C-- pyritic black shale	
		1,390	KA 5009	"	A-- springiron	
		1,360	KA 2126	94-L-1(i)	A-- black chert/ss	
		720	KA 1472	94-L-1(l)	B-- black slate	
		600	KA 1473	"	B-- slate	
		630	KA 1474	"	B-- siltstone	
		330	KA 1475	"	C-- breccia	
		365	KA 1476	"	C-- siltstone	
		295	KA 1480	"	C-- sandstone	
		620	KA 1481	"	B-- slate	
Cu	85	88	KA 259	94-L-8(1)	See Zn Sample	KA 259
		176	KA 257	"	"	KA 257
		0.10%	KA 2137	94-L-8(a)	"	KA2137
		116	KA 206	94-L-8(1)	"	KA 206
		147	KA 1547	"	"	KA1547
		1,060	KA 2137	"	"	KA2137
Pb	255	0.11%	KA 258	94-L-8(1)	"	KA 258
		0.24%	KA 259	"	"	KA 259
		280	KA 253	"	"	KA 253
		340	KA 2136	94-L-8(a)	"	KA2136
		0.08%	KA 2137	"	"	KA2137
		0.05%	KA 2139	94-L-8(1)	"	KA2139
		1260	KA 2141	"	"	KA2141
		0.06%	KA 2142	"	"	KA 2142
		720	KA 2143	"	"	KA 2143
		300	KA 2144	"	"	KA 2144
		260	KA 2145	"	"	KA 2145
		0.05%	KA 2159	"	"	KA 2159
		0.14%	KA 2162	"	"	KA 2162
		410	KA 2164	"	"	KA 2164
		1,540	KA 207	"	"	KA 207
		0.34%	KA 205	"	"	KA 205
		985	KA 206	"	"	KA 206
		900	KA 1547	"	"	KA 1547
		340	KA 1548	"	"	KA 1548
		340	KA 2136	"	"	KA 2136
		680	KA 2137	"	"	KA 2137
Zn	444	920	KA 1568	94-L-1(a)	B-- limestone	
		450	KA 257a	94-L-8(1)	X-- carbonate Rough Claims	
		375	KA 257	"	X-- carbonaceous shale "	
		4.35%	KA 258	"	X-- " "	
		6.55%	KA 259	"	X-- " "	

>20,000	KA 252	94-L-8 (1)	X-- carbonaceous shale "
2700	KA 253	"	X-- " "
2050	KA 254	"	X-- " "
9200	KA 255	"	X-- " "
2.75%	KA 2136	94-L-8 (a)	A-- ls. float
1.10%	KA 2137	"	A-- arg. cherty shale
1200	KA 1530	94-L-8 (d)	B-- arg. ls.
1200	KA 1531	"	B-- black slate

2.32%	KA 2139	94-L-8 (1)	X-- pyritic shale Rough
870	KA 2140	"	X-- " Claim
5.70%	KA 2141	"	X-- "
2.00%	KA 2142	"	X-- "
1080	KA 2143	"	X-- "
3.75%	KA 2144	"	X-- "
1280	KA 2145	"	X-- "
420	KA 2146	"	X-- "
1300	KA 2153	"	X-- "
390	KA 2155	"	X-- "
2.40%	KA 2159	"	X-- "
1680	KA 2160	"	X-- ls.
4.45%	KA 2162	"	X-- ls.
920	KA 2163	"	X-- pyritic shale "
6800	KA 2164	"	X-- "
720	KA 2165	"	X-- "
720	KA 2166	"	X-- "
1240	KA 207	"	X-- "
13.30%	KA 200	"	X-- "
3100	KA 201	"	X-- "
1600	KA 202	"	X-- "
3380	KA 203	"	X-- "
3.62%	KA 204	"	X-- "
4.55%	KA 205	"	X-- "
8.40%	KA 206	"	X-- "
7.90%	KA 1547	94-L-8 (1)	X-- mineralized ls. "
490	KA 1548	"	X-- mineralized bx. "
450	KA 1540	"	X-- ls.
275	KA 1442	"	X-- arg. siltstone
5000	KA 1546	"	X-- ls.
336	KA 2167	"	X-- shale
4100	KA 2168	"	X-- "
1.15%	KA 2169	"	X-- arg. chert
690	KA 2170	"	X-- micritic ls.
2.75%	KA 2136	"	X-- ls.
1.10%	KA 2137	"	X-- ls.

V	798	800	KA 133	94-K-4(i)	See Zn Sample	KA 133
		5850	KA 134	"	"	KA 134
	1010	805	KA 1513	94-K-5(b)	C-- siltstone	
		1050	KA 2104	94-L-1(a)	C-- black shale	

		2400	KA 2111	"	B-- siliceous mudstone
		1100	KA 2121	94-L-1(g)	See Zn Sample KA 2121
		1525	KA 2122	"	" KA 2122
		1100	KA 2133	94-L-1(k)	C-- cherty argillite
		1300	KA 255	94-L-8(l)	See Zn Sample KA 255
Cu	60	142	KA 92	94-L-10(c)	B-- carbonaceous slate
Pb	40	168		94-L	A--
		75		94-L	C--
		54	KA 2073	94-L-10(a)	C-- micritic limestone
		110	KA 1405	94-L-10(b)	B-- shale
		72	KA 92	94-L-10(c)	See Cu Sample KA 92
Zn	135				
Cu	34				No anomalous values
		47	KA 86	94-M-1(b)	C-- arg. slate
		49	KA 6031	94-M-1(c)	C-- slate
		40	KA 6033	94-M-1(e)	C-- "
		72	KA 85c	94-M-7(b)	B-- intrusive Vents Ck.
		93	KA 85f	"	B-- "
		52	KA 2040	94-M-8(b)	C-- limestone
Pb	65	240	KA 2040	"	See zn Sample KA 2040
Zn	96	133	KA 2062	94-M-1(b)	C-- argillite
		5000	KA 2040	94-M-8(b)	C-- limonite matrix to bx.
		230	KA 2042	94-M-8(d)	B-- fetid dol.
Cu	68	600	KA 1010	94-M-3(l)	A-- sandstone
		1880	KA 1014	"	X-- green skarn Boya
		273	KA 1013	"	X-- " Showings
		640	KA 46	"	X-- "
		99	KA 47	"	X-- "
		104	KA 48	"	X-- "
		192	KA 49	"	X-- "
		1020	KA 53	"	X-- "
		110	KA 54	"	X-- "
		320	KA 55	"	X-- "
		225	KA 56	"	X-- "
		1360	KA 55c	"	X-- "
		167	KA 58	"	X-- "
		118	KA 1140	94-M-3(l)	X-- green skarn Boya Show
		92	KA 59	"	X-- limestone
		114	KA 61	"	X-- qtzite
		81	KA 62	"	X-- slate lense
		152	KA 63	"	X-- slate lense
		80	KA 1150	94-M-3(b)	B-- shale
Pb	28	166	KA 1151	"	B-- "
		80	KA 2034	94-L-14(c)	B-- Fe rich shale
		34	KA 63	94-M-3(l)	See Cu Sample KA 63
		33	KA 1150	94-M-3(b)	" KA 1150
		50	KA 1290	94-M-3(e)	C-- limestone
		49	KA 1295	"	C-- "
		36	KA 1299	"	C-- "
		36	KA 25	94-M-4(a)	C-- micaceous slate
		34	KA 36	94-M-4(c)	C-- "
		270	KA 2019	94-M-6(a)	A-- calc siltstone/ sandstone
Zn	256	280	KA 2033	94-L-14(c)	C-- chert lense

		22,000	KA	46	94-M-3(1)	See Cu Sample	KA	46
		700	KA	47	"	"	KA	47
		270	KA	48	"	"	KA	48
		290	KA	53	"	"	KA	53
		580	KA	54	"	"	KA	54
		275	KA	56	"	"	KA	56
		700	KA	58	"	"	KA	58
		1,900	KA	1140	"	"	KA	1140
		1,100	KA	63	"	"	KA	63
		640	KA	1150	94-M-3(b)	"	KA	1150
		350	KA	1151	"	"	KA	1151
		363	KA	25	94-M-4(a)	See Pb Sample	KA	25
		580	KA	2009	94-M-5(c)	B-- micaceous phyllite		
Cu	37	114	KA	61	94-L-13(c)	B-- shale		
		81	KA	62	"	B-- "		
		100	KA	66	94-L-13(f)	C-- springiron		
		2500	KA	1041	94-M-4(b)	C-- qtz vein float malachite		
		46	KA	1042	"	C-- calcite/dol vein		
		38	KA	1071	94-M-4(d)	C-- limestone		
		195	KA	1074	"	A-- phyllite		
Pb	52	75	KA	1041	94-M-4(b)	See Cu Sample	KA	1041
		66	KA	2024	94-M-4(h)	C-- chert		
		101	KA	2025	"	B-- arg shale		
		1220	KA	2028	94-L-16(a)	A-- fetid dol		
		61	KA	2029	"	C-- "		
		54	KA	2030	"	C-- "		
Zn	119	155	KA	8009	94-L-13(b)	C-- calcite vein float		
		200	KA	66	94-L-13(f)	C-- See Cu Sample	KA	66
		154	KA	1046	94-M-4(b)	C-- carb shale		
		124	KA	1095	94-M-4(g)	C-- limestone		
		180	KA	2025	94-M-4(h)	See Pb Sample	KA	2025
		1400	KA	2028	104-I-16(a)	See Pb Sample	KA	2028
Cu	63	147	KA	1	104-P-1(a)	B-- limestone		
		5520	KA	10	104-P-1(l)	X-- Hidden Valley Cu Show		
		415	KA	11	"	X-- "		
		86	KA	15	"	X-- "		
		124	KA	17	"	X-- "		
		2400	KA	18	"	X-- "		
		1590	KA	19	"	X-- "		
		288	KA	20	"	X-- "		
		80	KA	1173	104-P-1(g)	A-- carbonaceous shale		
Pb	54	166	KA	1162	"	A-- limonite		
		600	KA	1200	104-P-1(i)	A-- limestone		
		190	KA	1224	104-P-1(j)	A-- limestone		
		86	KA	1244	104-P-1(n)	C-- dol.		
		340	KA	1251	104-P-1(o)	A-- limestone		
		62	KA	1252	"	C-- "		
		74	KA	1254	"	C-- "		
Pb		90	KA	1262	104-P-1(p)	C-- dol		
Zn	129	144	KA	1126	104-P-1(c)	C-- chert		
		560	KA	1127	"	A-- shale		

130	KA	38	104-P-1(d)	C--	limestone
835	KA	1173	104-P-1(g)		See Cu Sample KA 1173
940	KA	1200	104-P-1(i)		See Pb Sample KA 1200
228	KA	1204	104-P-1(i)	C--	limestone
179	KA	1251	104-P-1(0)	C--	limestone
166	KA	2027	104-P-8(a)	C--	cherty limestone

COPPER

Sample Loc.	# Samples	Normal Dist.	Background mean = \bar{x}	Threshold $\bar{x} + \Delta$	Highly Anomalous $\bar{x} + 2\Delta$	Samples $> \bar{x} + 2\Delta$	
Akie (94F SE 1/4)	49	0-82 ppm	23 ppm	43 ppm	63 ppm	6	
Gataga-A (94K SW 1/4)	142	94	0-116 ppm	24 ppm	46 ppm	68 ppm	6
Gataga-B (94K SW 1/4)		48	0-116 ppm	26 ppm	51 ppm	77 ppm	6
Gataga-A (94L SE 1/4)	186	94	0-153 ppm	32 ppm	59 ppm	86 ppm	4
Gataga-B (94L SE 1/4)		92	0-176 ppm	25 ppm	55 ppm	85 ppm	6
Netson Lake (94L NE 1/4)	46	0-55 ppm	26 ppm	43 ppm	60 ppm	1	
Liard (94M SE 1/4)	68	0-52 ppm	12 ppm	23 ppm	34 ppm	6	
Boya (94M SW 1/4)	77	0-100 ppm	26 ppm	47 ppm	68 ppm	20	
Turnagain-A (94L/94M/104I)	131	50	0-30 ppm	11 ppm	24 ppm	37 ppm	5
Turnagain-B (104P SE 1/4)		81	0-147 ppm	15 ppm	39 ppm	63 ppm	9

LEAD

Sample Loc.	# Samples	Normal Dist.	Background mean = \bar{x}	Threshold $\bar{x} + \Delta$	Highly Anomalous $\bar{x} + 2\Delta$	Samples $> \bar{x} + 2\Delta$	
Akie (94F SE 1/4)	49	0-47 ppm	19 ppm	31 ppm	43 ppm	1	
Gataga-A (94K SW 1/4)	142	94	0-136 ppm	26 ppm	49 ppm	72 ppm	12
Gataga B (94K SW 1/4)		48	0-95 ppm	46 ppm	69 ppm	92 ppm	5
Gataga-A (94L SE 1/4)	186	94	0-200 ppm	38 ppm	76 ppm	115 ppm	8
Gataga B (94L SE 1/4)		92	0-340 ppm	97 ppm	176 ppm	255 ppm	21
Netson Lake (94L NE 1/4)	46	0-37 ppm	20 ppm	30 ppm	40 ppm	5	
Liard (94M SE 1/4)	68	0-63 ppm	35 ppm	50 ppm	65 ppm	1	
Boya (94M SW 1/4)	77	0-36 ppm	10 ppm	19 ppm	28 ppm	8	
Turnagain-A (94L/94M/104I)	131	50	0-101 ppm	14 ppm	33 ppm	52 ppm	5
Turnagain-B (104P SE 1/4)		81	0-90 ppm	16 ppm	54 ppm	54 ppm	8

ZINC

Sample Loc.	Samples	Normal Dist.	Background mean = \bar{x}	Threshold $\bar{x} + \Delta$	Highly Anomalous $\bar{x} + 2\Delta$	Sample $> \bar{x} + 2\Delta$
Akie (94 F SE 1/4)	49	0-460 ppm	108 ppm	216 ppm	324 ppm	6
Gataga-A (94K SW 1/4)	141	94 0-390 ppm	87 ppm	174 ppm	261 ppm	22
Gataga B (94K SW 1/4)		48 0-360 ppm	99 ppm	184 ppm	269 ppm	15
Gataga-A (94L SE 1/4)	186	94 0-365 ppm	111 ppm	200 ppm	289 ppm	19
Gataga B (94L SE 1/4)		92 0-490 ppm	180 ppm	312 ppm	444 ppm	42
Netson Lake (94L NE 1/4)	46	0-130 ppm	63 ppm	99 ppm	135 ppm	0
Liard (94M SE 1/4)	68	0-230 ppm	28 ppm	62 ppm	96 ppm	3
Boya (94M SW 1/4)	77	0-370 ppm	84 ppm	171 ppm	256 ppm	13
Turnagain-A (94L/94M/104I)	131	50 0-200 ppm	37 ppm	78 ppm	119 ppm	4
Turnagain-B (104P SE 1/4)		81 0-228 ppm	45 ppm	87 ppm	129 ppm	8

VANADIUM

Sample Loc.	Samples	Normal Dist.	Background mean = \bar{x}	Threshold $\bar{x} + \Delta$	Highly Anomalous $\bar{x} + 2\Delta$	Samples $> \bar{x} + 2\Delta$
Gataga (94L SE 1/4)	32	0-805 ppm	288 ppm	253 ppm	798 ppm	3
Gataga (94K SW 1/4)	79	0-1525 ppm	330 ppm	670 ppm	1010 ppm	6

Field Work

From June 7 to July 7, 1976, a camp was set up on the southeastern shoreline of Birches Lake. The seven man crew was supported by B2 helicopter (Northern Mountain Helicopters). Camp logistical support originated in Watson Lake (BC Yukon Air Service, Campground Services and Twilight Expediting). The weather was generally pleasant and warm although some extremely strong winds were encountered. Two man geological-prospecting crews were able to complete one traverse per day due to the difficult terrain and lack of helicopter landing sites.

The southeastern portion of the Rabbit River Map Area was examined between July 15 and July 23, 1976. The crew was supported by a 206B Jet Ranger helicopter (Frontier Helicopter), and stayed at Lower Liard River Lodge. The helicopter was socked in by fog, rain and snow for several days. Access to ridgelines and valley floors was relatively easy.

Access to the Gataga River region was gained from the Alaska Highway (Toad River Lodge July 23 to August 15, 1976) through high level passes from Toad River and Racing River. The treeless terrain and steep hillsides permitted two traverses per day. Ground fog, rain and winds prevented the helicopter from flying several days and on several other occasions added to the daily flying time.

For 2 weeks from August 15 to September 1, 1976 the Kwadacha River to Pesika Creek area was examined. Fog, heavy rain and snow caused many delays. Clouds and high winds in the vicinity of Mount Kennedy and the Kwadacha River made flying out of Robb Lake difficult. Staking of the Rough Claims (August 27-28, 1976) was done from Robb Lake. Logistical support originated in Mackenzie (Northern Thunderbird Airlines, Kerri Transport Expeditor).

Methods

A combined geological mapping, prospecting and rock geochemical sampling program was used for this project. In order to direct the efforts of the field work detailed stratigraphic studies of potential areas of interest were carried out by crew members.

Geological mapping, prospecting and stratigraphic studies were carried out by a field party comprised of 1 geologist and 1 prospector-assistant. Interesting lithological samples were collected from outcrop for later examination. A diamond saw and binocular microscope were kept in camp for this purpose. All lithologies in the area were examined with equal care although metal rich shales attracted the most attention. Detailed stratigraphic studies were concentrated in the vicinity of new mineral occurrences.

Sampling Procedure

Samples collected, were designated as follows:-

KD	=	Kechika Project, Lithological sample
KC	=	" Stream sediment sample
KB	=	" Soil Sample
KA	=	" Rock Chip Sample
KA 1 to 999	=	" P. Boyle
KA 1000 to 1999	=	" B. Maxwell
KA 2000 to 2999	=	" P. Hubacheck
KA 3000 to 3999	=	" J. Innis
KA 5000 to 5999	=	" F. Pember
KA 6000 to 6999	=	" G. Haile
KA 8000 to 8999	=	" G. Small

Geological traverses and mineral prospect locations were designated by NTS "cell" and an alpha numeric.

eg. 94-L-8(c) Geological Traverse NTS 94-L-8(c) (BM, 31/7/76)
eg. 94-L-8(l) Mineral Prospect, Rough Claims 94-L-8(l) (PB, JM, 8/8/76)

Rock chip geochemical samples, the number of chips representative of a sample location, were collected at stations where geological observations were made, and samples descriptions were included with the geological notes. Where sulphide mineralization was noted, a rock chip grab sample was included for analysis. Soil samples were collected on the Rough Claims. These samples were taken from frost boils or from pits approx. eight inches deep, and contained more than 50% rock fragments.

High altitude tundra soils predominate. The shallow soil profile reflects a significant accumulation of soil parent material but poor differentiations of the soil horizons. No stream sediments samples were collected. Samples were placed in 35 lb wet strength brown kraft envelopes. A record of sampling observations was kept on "Tg-Geochemical Data Sheets".

Analysis of Samples

Analysis of samples was done by Bondar-Clegg Laboratories, 1500 Pemberton Ave., Vancouver. All samples were analyzed for Cu, Pb and Zn.

Cu, Pb, Zn, Ag, Mn, Fe, Mo, Ni, Cd, Au-Hot Aqua Regia
Extraction

V -Perchloric Nitric Extraction

U -Hot HNO₃ Extraction

W -Basic Fusion

U -Fluorometric Analysis

Ba, Ti, Sn -X.R.F Analysis

Cu, Pb, Zn, Ag, Mn, Fe, V, Mo, Ni, Au, Cd-Atomic Absorbtion
Analysis

W -Colormetric Analysis

Au -Fire Assay Analysis

Samples which gave values greater than 100 ppm.
Cu, 5,000 ppm Pb and 5,000 ppm Zn were assayed.

Personnel

The following personnel actively contributed to Kechika Project 1976.

J. Macdougall	Tg	Supervisor
P. Boyle	Tg	Project Manager
P. Hubacheck	Temporary	Geologist
B. Maxwell	"	Geologist
J. Innis	"	Geological Assistant-Prospector
F. Pember	"	Geological Assistant-Prospector
G. Haile	"	Geological Assistant-Prospector
G. Small	"	Geological Assistant-Prospector
Ruth Page	Charter	Helicopter Pilot (Northern Mtn)
Doug Green	"	Helicopter Pilot (Frontier)

KECHIKA PROJECT 1976

APPENDIX A. Description of Mineralization

- Rough Showing, Through Creek Fe, Zn 94-L-8(1), Memo
- Boya Showing, Cu, W, Zn 94-M-3(1), Memo
- D,P Showing, Driftpile Creek Fe, Zn, Pb
94-K-4(1) Memo
- Driftpile Ca/Okg Showing Zn (Cu) 94-K-4(2) Memo

Texasgulf memo

Date September 24, 1976
To J. Macdougall Location Calgary
From P. Boyle Location Calgary
Subject Rough Showing, Through Creek, 94-L-8(1)

MINERALIZATION

Zinc mineralization is noted at the abrupt limestone-shale facies contact on the Rough Claims. A thick limestone breccia, unit 5c, overlies brown weathering shales containing Lower Ordovician graptolites. The uppermost beds of Unit 5c are bleached, clean, fine grained limestone containing occasional carbonaceous shale wisps.

The clean limestone is overlain by, and locally intertongues with black carbonaceous shale, which locally is associated with massive pyrite. Some quartz veins found in the uppermost limestone beds, normal to the limestone-shale contact. In the overlying black pyritic shales thin massive pyrite beds are noted and springiron deposits are common. Sphalerite and galena have been noted disseminated along the bedding in the uppermost limestone beds. Hydrozincite, smithsonite and sphalerite are noted in close proximity to the quartz veins. Sphalerite is associated with the carbonaceous pyritic shales, intertonguing with the limestone. Highly anomalous zinc values have been obtained from the springiron deposits in the pyritic shales immediately overlying the limestone. Some soil sampling over these shales also indicated their anomalous zinc content.

Chip samples KA-2138 to 2166 were collected across the "Creek Bed Showing". The values were characterized by a high Zn/Pb ratio.

		Zn%	
KA	2139	2.32	over 5'
KA	2141	5.70	" 5'
KA	2142	2.00	" 5'
KA	2144	3.75	" 5'
KA	2159	2.40	" 5'
KA	2162	4.55	" 15'

Chip sample KA-207 was collected from the "Hill-side Showing".

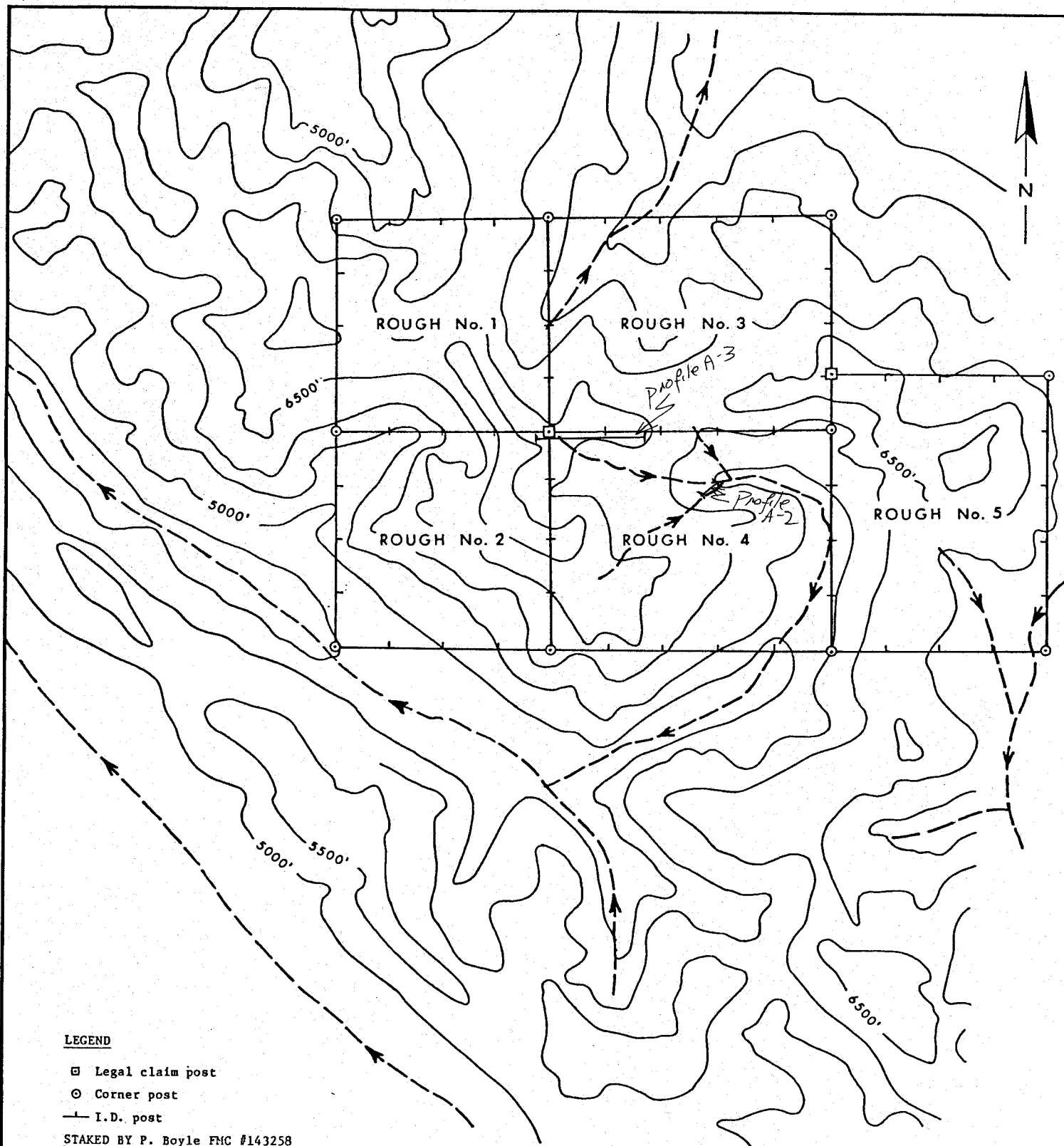
KA-207	8.40	grab sample
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OWNERSHIP, HISTORY

five claims were staked August 27/76 and August 28/76 for Texasgulf, a total of 92 units. There is no evidence of any previous work by exploration companies in the immediate vicinity of the showings.

P. Boyle

PB/dh



LEGEND

- ☐ Legal claim post
- ⊙ Corner post
- I.D. post

STAKED BY P. Boyle FMC #143258

FOR Texasgulf FMC #93127

LOCATION East of the Gataga River at the
Headwaters of Through Creek

ROUGH #1 - #4 LCP UTM 0666200E, 6461500N

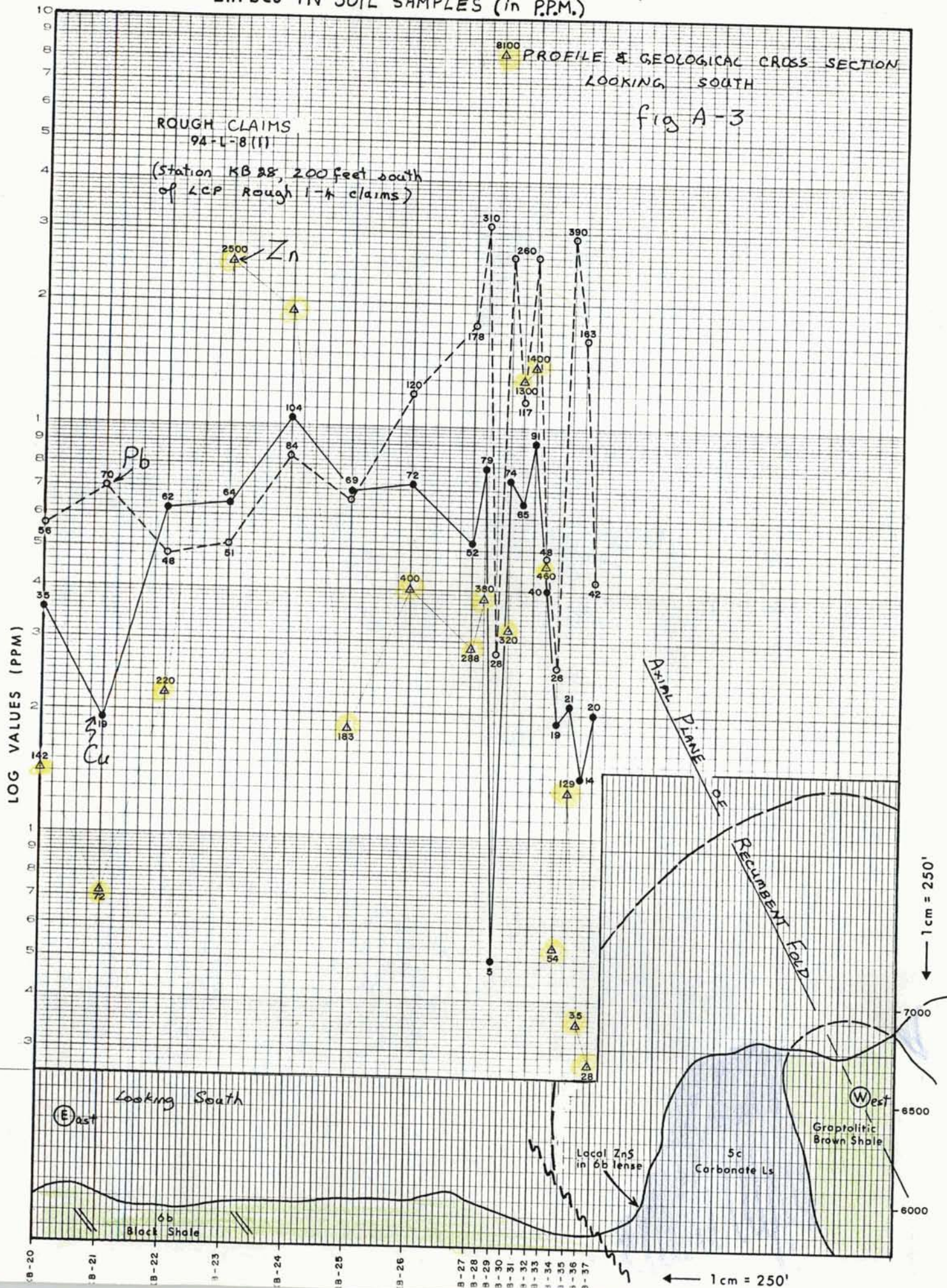
ROUGH #5 LCP UTM 0668400E, 6462000N

Fig A-1

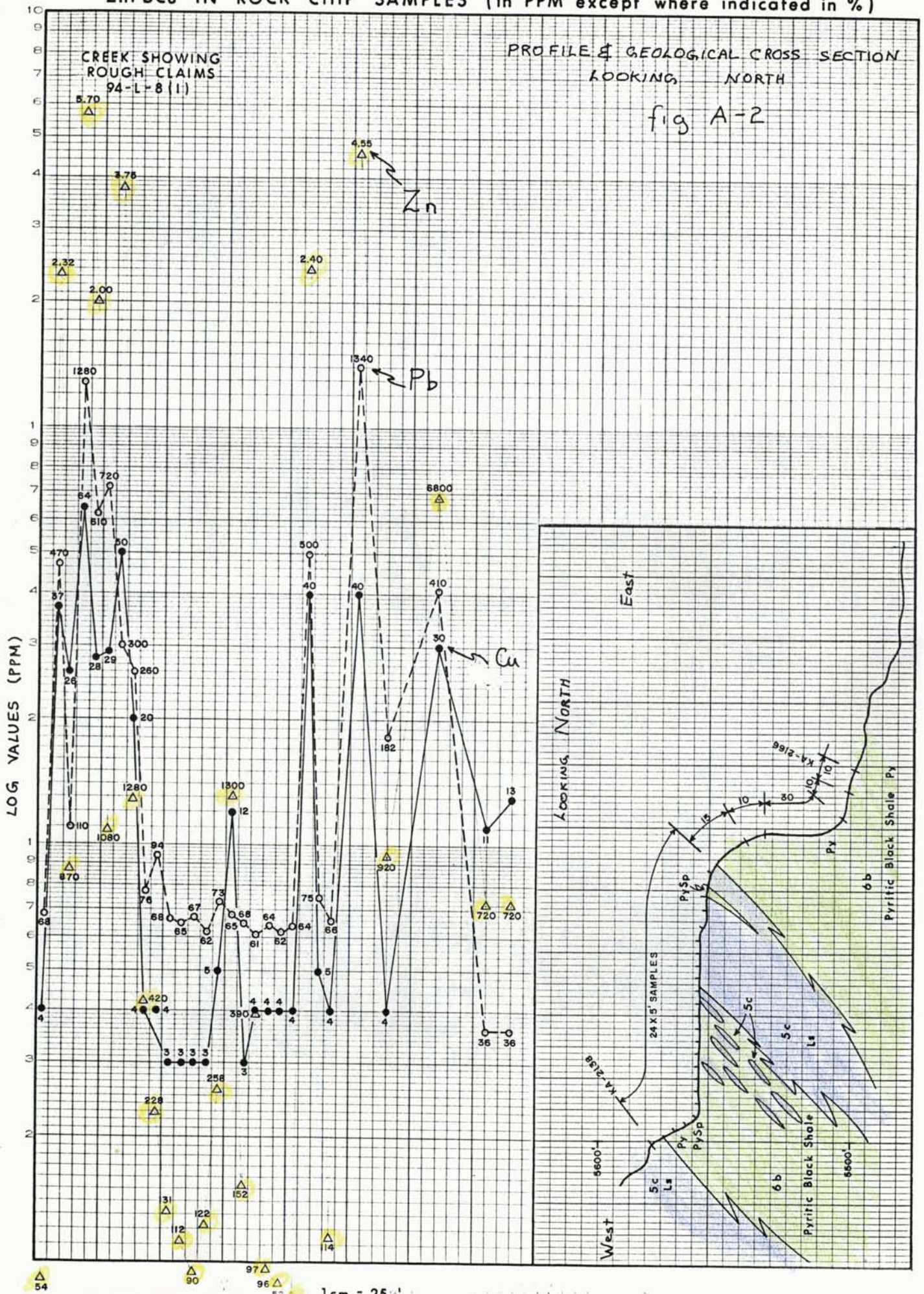
LIARD MINING DIVISION			START	FINISH
CLAIM	TAG #	NO. UNITS	DATE / TIME	DATE / TIME
ROUGH #1	15492	4N.4W	27/8/76 1:00 pm	28/8/76 6:00 pm
ROUGH #2	15493	4S.4W	27/8/76 1:00 pm	28/8/76 6:00 pm
ROUGH #3	15494	4N.5E	27/8/76 1:00 pm	28/8/76 6:00 pm
ROUGH #4	15495	4S.5E	27/8/76 1:00 pm	28/8/76 6:00 pm
ROUGH #5	15496	4E.5S	27/8/76 1:30 pm	28/8/76 4:30 pm

TEXASGULF INC.	
MINERALS EXPLORATION CALGARY	
CLAIM MAP	
CLAIM - ROUGH Nos. 1-5 Incl.	
TOTAL 92 UNITS	
SCALE: 1: 50,000	AUTHOR: P. BOYLE
C.I. = 500'	DATE: AUGUST 1976
NTS 94 - L - 8 SE	DWN. BY: J. van LAAR

KECHIKA PROJECT 1976
Zn Pb Cu IN SOIL SAMPLES (in P.P.M.)



KECHIKA PROJECT 1976
 ZnPbCu IN ROCK CHIP SAMPLES (in PPM except where indicated in %)



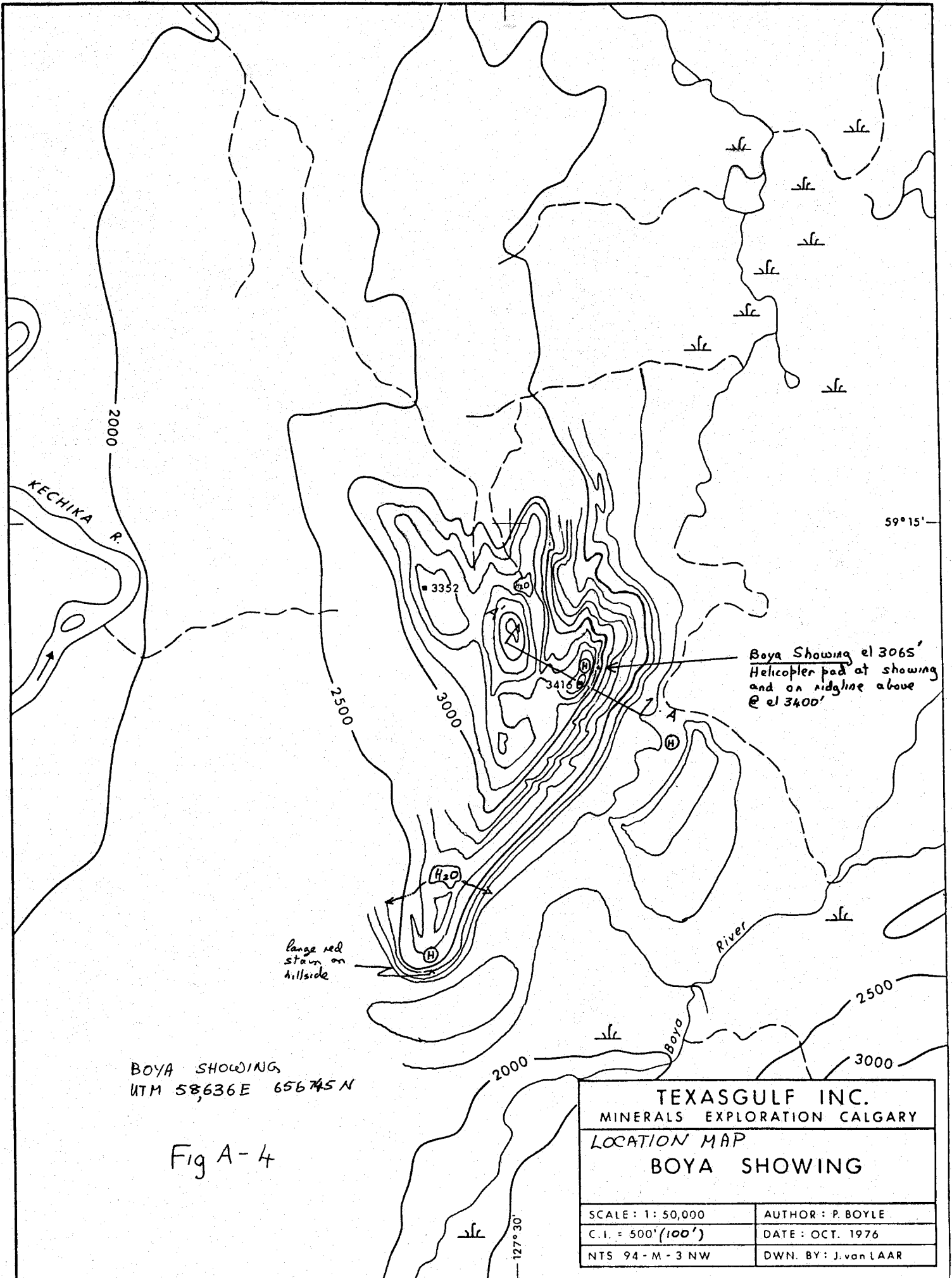
Texasgulf

Date September 24, 1976
To J. Macdougall Location Calgary
From P. Boyle Location Calgary
Subject Boya Showing, Cu W Zn 94-M-3(1)

MINERALIZATION

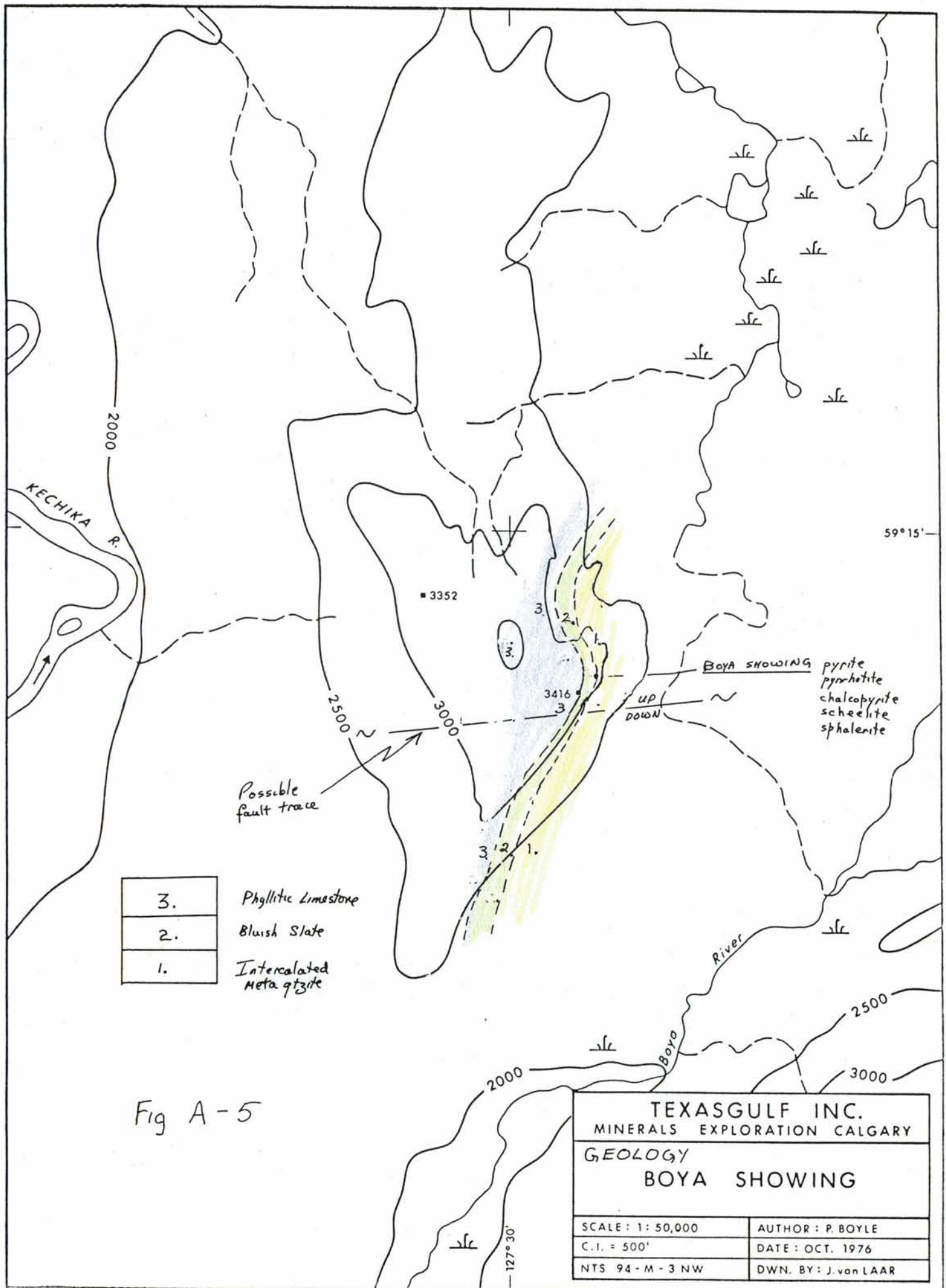
Cu W Zn mineralization was located 3.46 miles NE of the mouth of the Turnagain River, 4200 feet west of BM3352 at el 3065'. A lense of pyrite pyrrhotite chalcopyrite scheelite sphalerite (marmotite?) was located. Subsequent examination indicated that the extent of the mineralization did not justify staking the property. It is the first time tungsten has been reported east of the Trench in this region. The only W property in the region lies 37 miles SW. The lense is 14 inches wide and 50 feet long. Chip samples were collected from the sulphide lense, footwall and hangingwall. The sulphide band is magnetic.

KA-1014	Cu 1880 ppm Pb 14 ppm Zn 123 ppm Ag 2.4 ppm Cd 1.0 ppm Au 20 ppb Sn 6 ppm	grab sample
KA-55c	Cu 1360 ppm Pb 9 ppm Zn 136 ppm Ag 2.1 ppm Cd 1.6 ppm Au <5 ppb W 850 ppm	grab sample
KA46	Cu 640 ppm Pb 18 ppm Zn 22000 ppm (2.2%)	grab sample
KA53	Cu 1021 ppm Pb 23 ppm Zn 290 ppm	



BOYA SHOWING
 UTM 58636E 656745N

Fig A-4



3.	Phyllitic Limestone
2.	Bluish Slate
1.	Intercalated Meta gneiss

Boya showing
 pyrite
 pyrrhotite
 chalcopyrite
 scheelite
 sphalerite

Fig A-5

TEXASGULF INC. MINERALS EXPLORATION CALGARY	
GEOLOGY BOYA SHOWING	
SCALE: 1: 50,000	AUTHOR: P. BOYLE
C.I. = 500'	DATE: OCT. 1976
NTS 94-M-3 NW	DWN. BY: J. van LAAR

COM

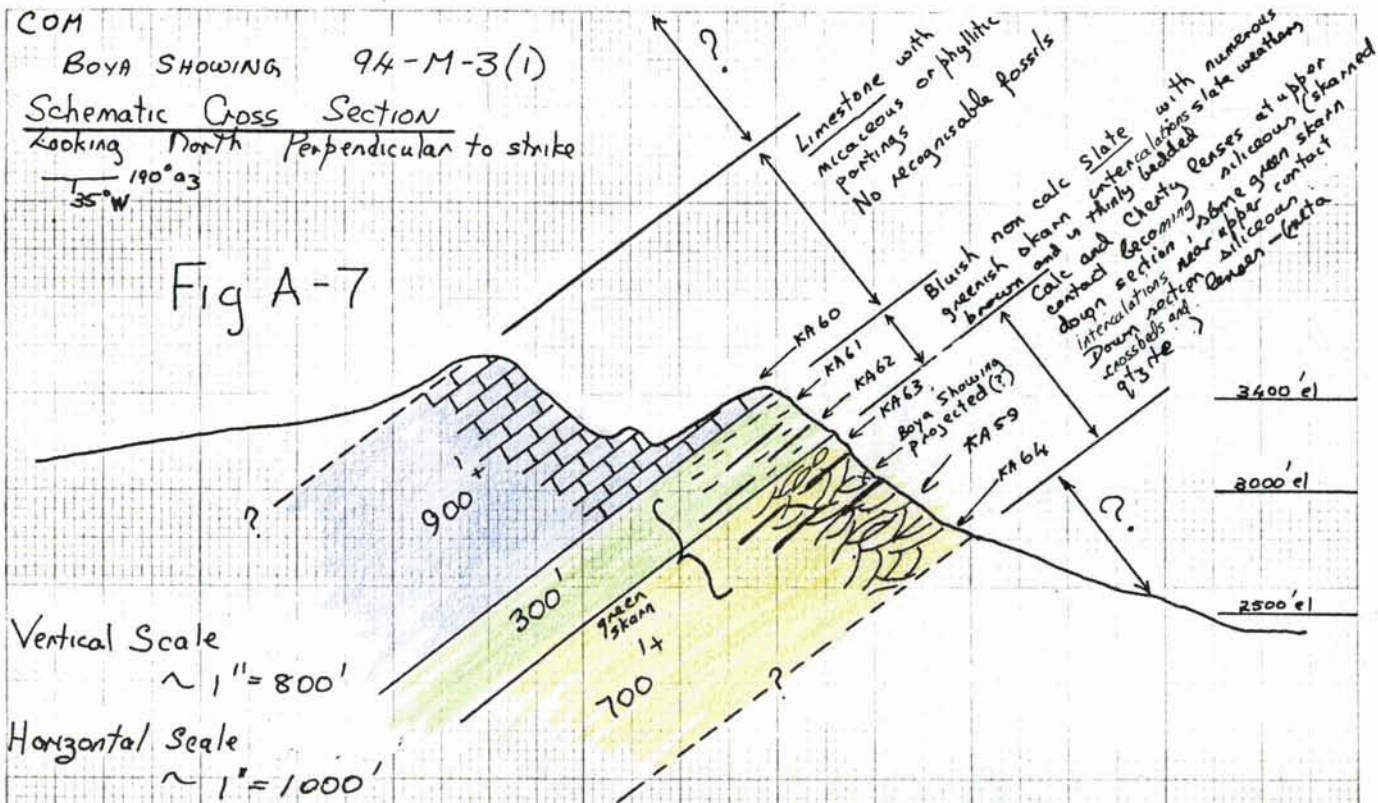
BOYA SHOWING 94-M-3(1)

Schematic Cross Section

Looking North Perpendicular to strike

190° 23
35° W

Fig A-7



Vertical Scale

~ 1" = 800'

Horizontal Scale

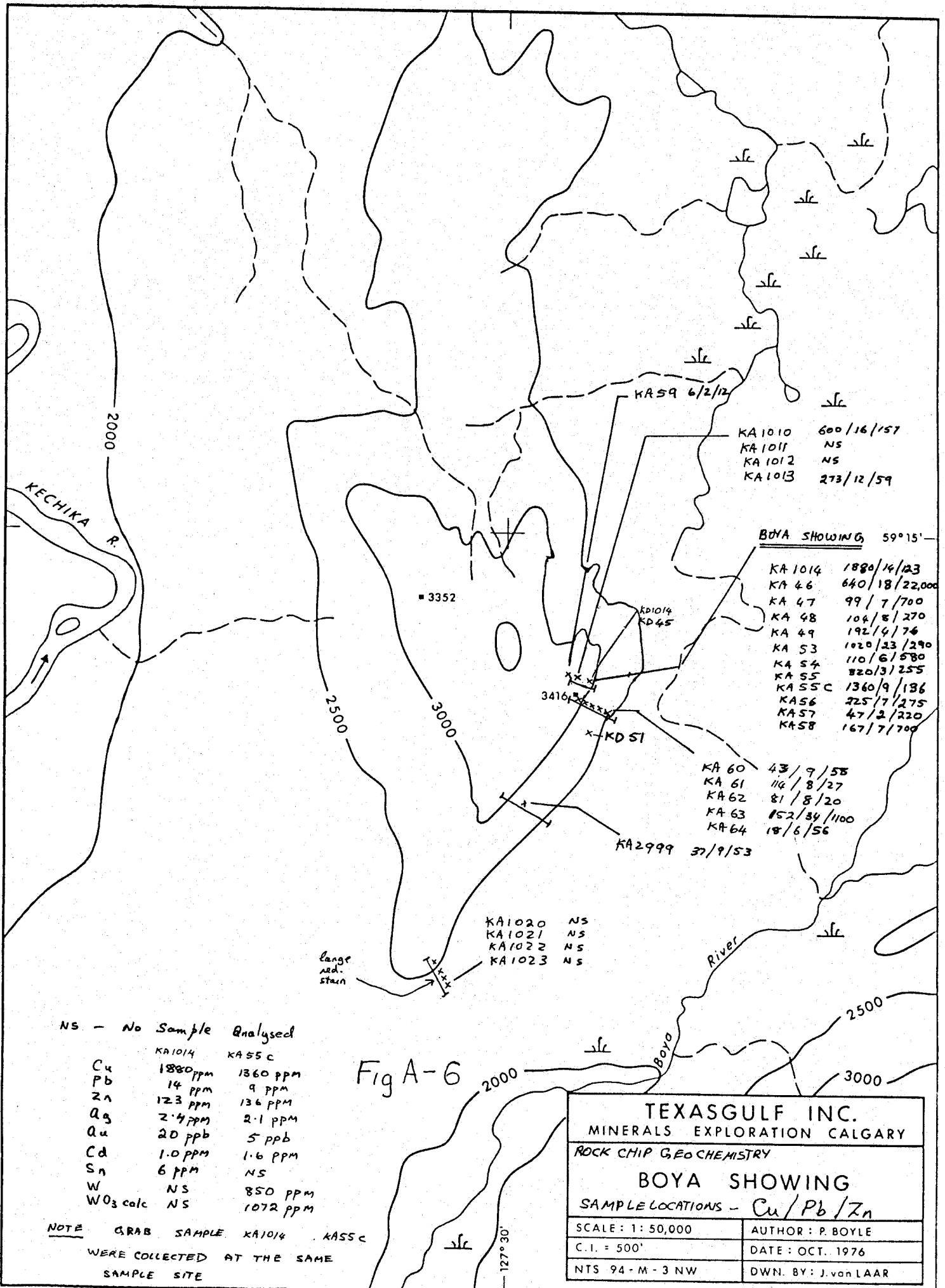
~ 1" = 1000'

A Composite section was measured on the shoulder approx 1000' south of the Boya Showing from which the above Schematic Cross Section was prepared

Sample #	Cu ppm	Pb ppm	Zn ppm	Lithology
KA 59	6	2	12	phyllitic LS
KA 60	43 *	9	58	slate
KA 61	114 *	8	27	green siliceous skarn.
KA 62	81 *	8	20	intercalated slate
KA 63	152 *	34	1100 **	mix of chert, green siliceous skarn, & blue calc. lenses
KA 64	18	6	56	siliceous meta qtzite

* Highly Anomalous Cu values

** Highly Anomalous Zn values



KA1010 600/16/57
 KA1011 NS
 KA1012 NS
 KA1013 273/12/59

BOYA SHOWING 59°15'

KA1014 1880/14/23
 KA 46 640/18/22,000
 KA 47 99/7/700
 KA 48 104/8/270
 KA 49 192/4/74
 KA 53 1020/23/290
 KA 54 110/6/580
 KA 55 820/3/255
 KA 55C 1360/9/136
 KA56 225/7/275
 KA57 47/2/220
 KA58 167/7/700

KA 60 43/9/58
 KA 61 114/8/27
 KA 62 81/8/20
 KA 63 152/34/1100
 KA 64 18/6/56

KA2999 37/9/53

KA1020 NS
 KA1021 NS
 KA1022 NS
 KA1023 NS

NS - No Sample	Analysed
KA1014	KA55C
Cu 1880 ppm	1360 ppm
Pb 14 ppm	9 ppm
Zn 123 ppm	136 ppm
Ag 2.4 ppm	2.1 ppm
Au 20 ppb	5 ppb
Cd 1.0 ppm	1.6 ppm
Sn 6 ppm	NS
W NS	850 ppm
WO ₃ calc NS	1072 ppm

NOTE GRAB SAMPLE KA1014 KA55C WERE COLLECTED AT THE SAME SAMPLE SITE

TEXASGULF INC.
 MINERALS EXPLORATION CALGARY
 ROCK CHIP GEOCHEMISTRY
BOYA SHOWING
 SAMPLE LOCATIONS - Cu/Pb/Zn

SCALE: 1: 50,000	AUTHOR: P. BOYLE
C.I. = 500'	DATE: OCT. 1976
NTS 94-M-3 NW	DWN. BY: J. van LAAR

Fig A-6

GEOLOGY

The mineralization is located at the contact between a thick section of siliceous fine grained rock and overlying slates. There is limy and cherty lenses at this contact and pyrite nodules and lenses are common. In the immediate area of the showing the host rock appears silicified or skarned. The rock is greenish brown in colour. A thin sequence of slates overlies the contact and the hillside is crowned by a thick sequence of phyllite Ordovician carbonates. The carbonates are overlain by limy phyllite exposed along the Kechika River and Turnagain Canyon.

The mineralization is stratiform in nature.

P. Boyle

PB/dh

Texasgulf

Date September 24, 1976
To J. Macdougall Location Calgary
From P. Boyle Location Calgary
Subject D,P Showing, Driftpile Creek, 94-K-4(1)

MINERALIZATION

The minerals of economic importance that occur on the Driftpile Creek prospect are sphalerite and galena. Barite is of potential interest, but the remote location of Driftpile Creek would result in very high transportation costs of a low-value commodity.

Sphalerite and galena has been found within beds of massive framboidal pyrite and in close association to bedded barite. The bedded pyrite and bedded barite are enclosed by non-calcareous black shales that may be part of Kechika Group of Ordovician age, or overlying basal units of the Devono-Mississippian dark shales.

The structure and ore textures are consistent with a sedimentary origin of the pyrite-sphalerite-galena deposit.

Mineralization of potential ore grade has only been found in boulders so far. However the environment is favourable for the development of a large tonnage lead zinc deposit.

The sulphide grains occur as anhedral interlocked grains interstitial to the pyrite framboids. No sphalerite or galena is found within the black shale interbeds. The grain size of the sulphides is estimated from microscope work as less than 20 microns, with many of the grains being one order of magnitude smaller. The pyrite framboids range in size from 100 microns to 25 microns in diameter.

Beds which contain commercially significant quantities of galena or sphalerite have only been found as float. Framboidal pyrite makes up less than 10% of the rock. Float boulders contain rare visible sphalerite and galena interbedded with pyrite, black shale and barite.

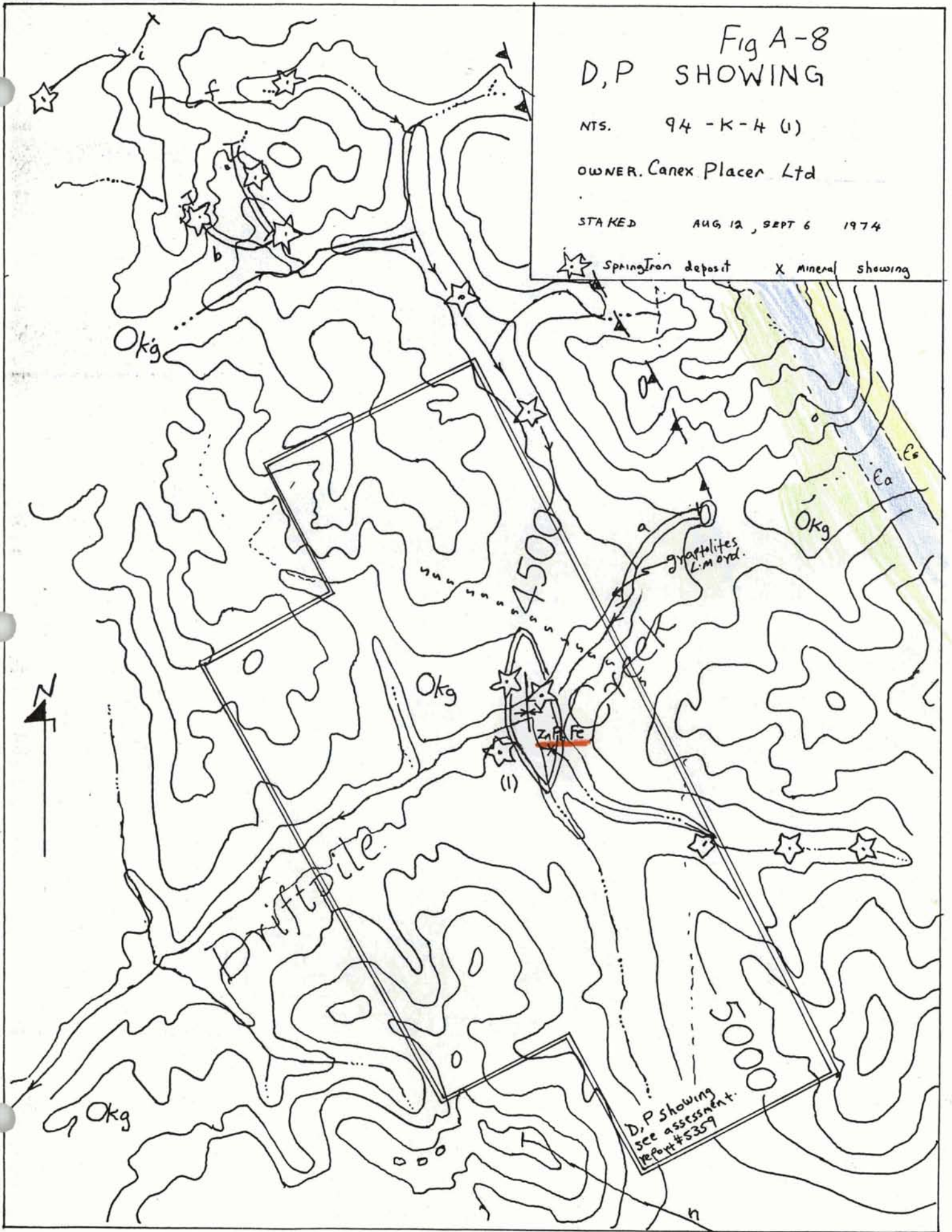
Fig A-8
D, P SHOWING

NTS. 94 - K - 4 (1)

OWNER. Canex Placer Ltd

STAKED AUG 12, SEPT 6 1974

★ Spring Iron deposit X Mineral showing



Boulders containing bedded pyrite with visible galena were found within one limonite spring deposit.

A massive pyrite bed was sampled by the writer. The fine grained massive pyrite exhibited numerous sedimentary compaction features. Galena and sphalerite were associated with the pyrite. (see sample DPP5)

DPP-5 Zn 0.96%, Pb 0.56%, Cu 7 ppm, Ag 0.2 ppm, Fe 12% Mn 7900 ppm, V 50 ppm, U 0.8 ppm

The following samples were collected by Canex Placer 1974

		Zn%	Pb%	Ba%
1	float	1.1	19.7	26.3
2		1.82	0.01	6.5
3		1.49	0.28	25.0
4	over 5'	1.2	0.06	1.36
5	over 13	1.4	0.01	0.48
6	over 46	0.26	2.44	9.73
7	float	4.5	0.62	4.1
8	float	5.4	0.7	0.16
9	float	6.35	1.9	0.09
10	float	4.0	0.4	0.12
11	float	3.5	6.2	0.27
12	float	0.73	.52	26.2
13	float	8.8	.53	.30

GEOLOGY

The Driftpile prospect lies within the northern Rocky Mountain fold system, fourteen miles east of the Rocky Mountain Trench. According to Gabrielse (1962) the Trench is a locus of faulting which separates the Rocky Mountain Structural Province from the Cassiar Mountains.

The prospect lies within black shale terrain that has been assigned to the Kechika Group (Taylor & Stott, 1971). The Kechika Group is of Ordovician age (Taylor & Stott, 1971; Gabrielse, 1962) based upon graptolites found in strata of similar lithology as that within the Driftpile Creek area. L-M Ordovician graptolites were located by the writer on Driftpile Creek at the eastern edge of the property.

Towards the north and northwest the Ordovician strata changes facies from shale to argillaceous limestone. Towards the east the Ordovician strata undergo a facies change to clean platform-type shallow water limestones.

Greenstone dikes and sills have been observed to cut Ordovician carbonates in the Turnagain River area northwest of Driftpile Creek. Thick units of volcanic sediments occur within the lower part of the shale succession (Taylor & Stott, 1971).

HISTORY

As a result of a reconnaissance stream geochemical survey conducted by Geophoto Consultants Ltd. in 1970, prospectors located galena and sphalerite on Driftpile Ck. associated with pyrite banded black shale, in float, in 1973. In 1974 153 claims were staked. The property was examined, in detail by Canex Placer Ltd. during the 1974 and 1975 field season, and by the writer in August 1976.

OWNERSHIP

The Driftpile prospect is owned by a partnership of Canex Placer Ltd., General Crude Oil Co. Northern Ltd., Pembina Pipeline Ltd. and Sun Oil Co. (Delaware). Canex Placer Ltd. is the operator.

REFERENCE

BCDOM Assessment Report File 5359, 1974

P. Boyle

PB/dh

Texasgulf

Date September 24, 1976
To J. Macdougall Location Calgary
From P. Boyle Location Calgary
Subject Zn (Cu) Ca/Okg Driftpile Showings 94-K-4(2)

MINERALIZATION

Numerous Zn (Cu Pb) showings have been located at the Ca/Okg contact over a distance of 4.5 miles extending south from a point 1 mile north of Driftpile Ck. Euhedral sphalerite crystals, 1/4 to 1-1/2 inches diameter, locally are disseminated through clean mottled blue limestone and dark grey argillaceous limestone, within 20 feet of the contact. Minor galena, chalcopyrite and malachite are also noted. The Okg shales are recessive. The Okg/Ca contact is a transitional contact reflecting a rapid lateral shale/carbonate facies change. None of the showings were extensive enough to warrant staking however the numerous occurrences do indicate that the area has good potential.

The age relationship between the host rock at Driftpile Ca/Okg showings and the D,P Showing is not clear but they are probably of similar age. The D,P Showing pyritic beds were probably the source beds for the mineralization.

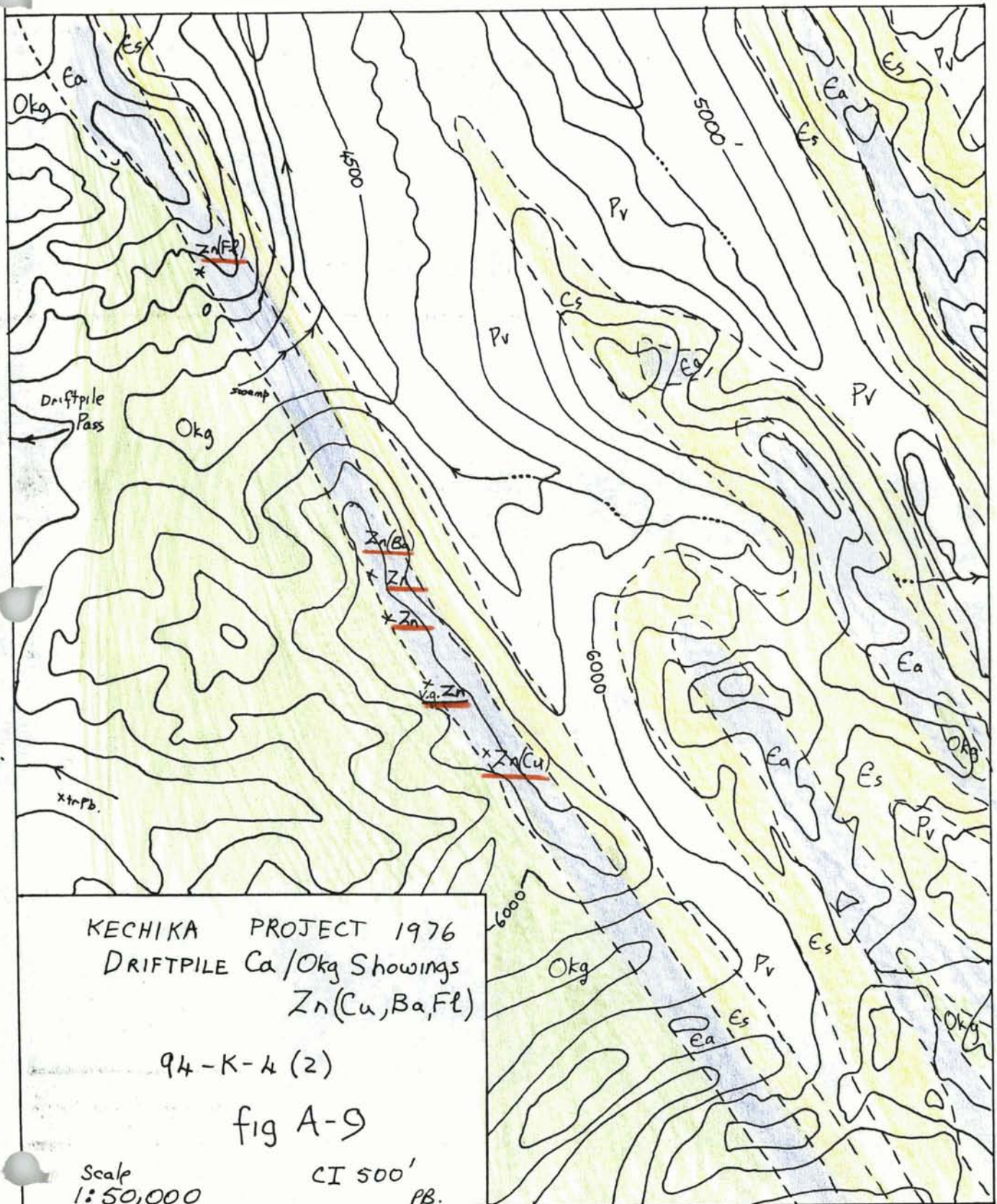
No claims were staked.

The following chip samples were collected from some of the occurrences.

	Zn	grab samples
KA-1582	6.00%	"
KA-1583	26.15%	"
KA-3041	19.35%	"
KA-5030	18.70%	"
KA-5033	6.95%	"

P. Boyle

PB/dh



KECHIKA PROJECT 1976
 DRIFTPILE Ca/Okg Showings
 Zn(Cu, Ba, Fl)

94-K-4 (2)

fig A-9

Scale
 1:50,000

CI 500'
 PB.

KECHIKA PROJECT
VOLUME 2 FINAL REPORT

NTS 94-C/F/K/L/M, 104-I/P

December 1976

P. Boyle

KECHIKA PROJECT 1976

VOLUME 2

Reconnaissance of Lower Paleozoic Carbonates
and Shales in Northeastern British Columbia,
for Carbonate and Shale Hosted Lead Zinc Deposits

by

Peter Boyle

Texasgulf Inc.

NTS 94-C/F/K/L/M, 104-I/P

Calgary
December 1976

KECHIKA PROJECT 1976

FINAL REPORT VOLUME 1

Table of contents		Page
Review		..4.
Summary and Conclusion		..5.
Recomendations		..6.
Regional Geology	-Transcurrent faulting in the Rocky Mountain Trench and Tintina Trench	..9.
	-Geology of the area west of the Kechika River in the vicinity of the Turnagain River.	.11.
	-Geology east of the Kechika River opposite the mouth of the Turnagain River.	.14.
	-Geology of the Liard Bridge Area (south and west of the Alaska Highway).	.16.
	-Geology of the Gataga River Area	.19.
	-Geology of the Kwadacha River-Pesika Creek Area	.24.
Geochemical Program Results		.26.
Field Work		.35.
Methods		.36.
Sampling Procedure		.36.
Analysis of Samples		.37.
Personnel		.38.
APPENDIX A	-Description of Mineralization	
	-Rough Showing, Through Creek Fe, Zn 94-L-8(1) Memo	.40.
	-Boya Showing, Cu, W, Zn 94-M-3(1) Memo	45.
	-D,P Showing, Driftpile Creek Fe, Zn, Pb 94-K-4(1) Memo	51.
	-Driftpile Ca/Okg Showing Zn (Cu) 94-K-4(2) Memo	55.

FINAL REPORT VOLUME 2

Table of contents	
APPENDIX B	-Geochemical Data Sample Record Sheets
APPENDIX C	-Geological Traverse Record

VOLUME 1

LIST OF FIGURES AND MAPS IN TEXT

Fig. 1-1	Location Map
Fig. 1-2	Geological Legend to Location Map.
Fig. 2-1	Geology Map 94-L/M, 104-I/P
Fig. 3-1	Stratigraphy east of the Kechika River opposite the Mouth of the Turnagain River.
Fig. 4-1	Index Map to Barite Fluorite deposits (Alaska Highway)
Fig. 4-2	Schematic Cross Section A-B
Fig. 4-3	Schematic Cross Section C-D
Fig. 4-4	Geology Rabbit River 94-M-SE
Fig. 5-1	Schematic Cross Section E-F
Fig. 5-2	Legend to Geology of Kechika Map area
Fig. 5-3	Geology of Kechika 94-L-SE

APPENDIX A

Fig. A-1	Rough Showing	Claim Map
Fig. A-2		Rock Chip Profile
Fig. A-3		Soil Sample Profile
Fig. A-4	Boya Showing	Location Map
Fig. A-5		Geology
Fig. A-6		Rock Chip Geochemistry
Fig. A-7		Schematic Cross Section
Fig. A-8	D,P Showing	Location Map
Fig. A-9	Driftpile Ca/Okg	Showing Location Map

VOLUME 1
IN POCKET

ROCK CHIP GEOCHEMISTRY

						Scale
Fig. D-1	Sample location Map	Rabbit River	W 1/2			1:250,000
D-2	"	"	E 1/2			"
D-3	"	Kechika	W 1/2			"
D-4	"	"	E 1/2			"
D-5	"	Tuchodi	W 1/2			"
D-6	"	Ware	E 1/2			"
Fig. D-7	Cu/Pb/Zn (V)	Map Rabbit River	W 1/2			1:250,000
D-8	"	"	E 1/2			"
D-9	"	Kechika	W 1/2			"
D-10	"	"	E 1/2			"
D-11	"	Tuchodi	W 1/2			"
D-12	"	Ware	E 1/2			"
E-1	Sample location Map		94-K-4			1: 50,000
E-2	"		94-L-1			"
E-3	"		94-L-8			"
E-4	Cu		94-K-4			"
E-5	"		94-L-1			"
E-6	"		94-L-8			"
E-7	Pb		94-K-4			"
E-8	"		94-L-1			"
E-9	"		94-L-8			"
E-10	Zn (V)		94-K-4			"
E-11	"		94-L-1			"
E-12	"		94-L-8			"

Also included with this report:

N.E. B.C. Lower Paleozoic Compilation Maps 1:1,000,000
(April, 1976/revised Sept., 1976)

Fig. F-1	Kechika Project Explorations, 1976 - N.E. B.C. Study area
F-2	Kechika Project Explorations, 1976 - N.E. B.C. Mineral Occurrences
F-3	Kechika Project Compilation, 1976 - N.E. B.C. Ordovician
F-4	Kechika Project Compilation, 1976 - N.E. B.C. Silurian
F-5	Kechika Project Compilation, 1976 - N.E. B.C. Devonian

KECHIKA PROJECT 1976

APPENDIX B -Geochemical Data Sample Record Sheet
NTS File

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

23/8/76

PROJECT..... Kechika

AREA..... 94-C-16 (b)

SAMPLER..... BM

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn				
KA1680	black slate	ridge W of Ospika R.	Ord	"	Nil		80	9	460				Note this Section 94-C-16 (b)
KA1681	Slate breccia Zn oxide	"	"	"	"	Zn oxide w qtz vein at angls / carb slate	3	8	720				<u>Zn-Zap pos</u> 94-C-16 (b)
KA1682	black slate	"	"	"	"		4	5	28				94-C-16 (b)
KA1683	black slate	"	"	"	"		9	4	26				94-C-16 (b)
KA1684	pyritic slaty breccia	"	"	"	"		144	20	173				94-C-16 (b)
KA1685	black slate	"	"	"	"		39	15	390				94-C-16 (b)
KA1686	black slate	"	"	"	"		30	10	85				94-C-16 (b)

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

18/8/76

PROJECT.....Kechika..... AREA.....94-F-1(c)..... SAMPLER..BM.....

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS	
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn					
KA1640	black slate	W of head-waters Ospika R. Traverse #1	Ord (?)					35	14	168				94-F-1(c)
KA1641	LS	"	"					8	34	98				94-F-1(c)
KA1642	Slate	"	"					31	10	54				94-F-1(c)
KA1643	Slate	"	"					26	14	20				94-F-1(c)
KA1644	breccia	"	"					20	8	132				94-F-1(c)
KA1645	SITS	"	"					62	29	131				94-F-1(c)
KA1646	limonite breccia	"	"					23	13	153				94-F-1(c)

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

19/8/76

PROJECT.....Kechika..... AREA..94-F-1(f)..... SAMPLER.....BM.....

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn				
KA1660	argillite	traverse II ridge NW of headwaters of Ospika R.	Ord (?)	OK		Nil	18	13	140				94-F-1(f)
KA1661	LS	"	"	"		"	7	11	8				94-F-1(f)
KA1662	Slate	"	"	"		"	23	25	102				94-F-1(f)
KA1664	LS breccia	"	"	"		"	20	31	580				94-F-1(f)
KA1665	black slate	"	"	"		"	8	8	25				94-F-1(f)
KA1666	Slate	"	"	"		"	47	12	96				94-F-1(f)
KA1667	argillite	"	"	"		"	10	9	76				94-F-1(f)

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

25/8/76

PROJECT... Kechika

AREA... 94-F-7 (e)

SAMPLER... PH

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn				
KA2192	bk. shale	4 mi. S of Akie R. on creek outcrop	Ord	high fissility			1	7	16				50' from phyllitic siltstones with Zn & Cpy in calcite
KA2193	bk. shale	"	"	"			8	24	86				veins 94-F-7(e) 94-F-7(e)
KA2194	bk carb shale	"	"			heavy calcite veining	10	9	76				94-F-7(e)
KA2195	bk. py. shale	"	"				81	20	156				94-F-7(e)
KA2196	rusty Float	"	"				32	17	1600				beneath large rusty red in shale 94-F-7(e) gossan
KA2197	bk. py shales sampled from gossan zone	"	"				25	20	420				94-F-7(e)

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING 27/7/76

PROJECT.....Keshika..... AREA.....94-K-4(1)..... SAMPLER.....PB.....

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn	Fe%	Ti%	Ba	
KA105 KA105a	qtz & calcite	Driftpile Ck. D, PProperty	Ord	"	Nil	qtz	8 16	300 190	285 700				94-K-4(1)
KA106	Shale frag	"	"	"				NS					94-K-4(1)
KA107	"	"	"	"			11	38	68				94-K-4(1)
KA108	"	"	"	"				NS					94-K-4(1)
KA109	"	"	"	"			16	330	68				94-K-4(1)
KA119	black slate float	"	"	"		Weak Pb est 0.5%	8	260	17	0.56%	0.075%	1850	Mo 34 ppm Ag 0.2 ppm Ni 33 ppm Mn 48 ppm U 5 ppm 94-K-4(1)
KA120	red springiron breccia shale frags	"	"	"	float		23	1400	192	7.5%	0.190%	9750	Mo 19 ppm Ag 0.2 ppm Ni 14 ppm Mn 13 ppm 94-K-4(1) U 2 ppm

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING 25/7/76

PROJECT.....Kechika..... AREA.....94-K-4(b)..... SAMPLER..PB.....

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn				
KA94	slate	N. Fork Driftpile Ck.	Ord	Weathered	Nil	Nil	38	13	87				94-K-4(b)
KA95	white qtz	"	"	"	"	white qtz	34	5	256				94-K-4(b)
KA96	foliated slate	"	"	"	"	Nil	10	12	32				94-K-4(b)
KA97	V. black carbonaceous slate	"	"	"	"	red stained	82	15	79				94-K-4(b)
KA98	spring iron breccia (limonitic matrix)	"	"	"	"	"	6	9	45				94-K-4(b)
KA99	"	"	"	"	"	"	70	10	207				94-K-4(b)
KA100	Carbonaceous slate	"	"	"	"	"	32	13	62				94-K-4(b)



GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

28/7/76

PROJECT..... Kechika AREA..... 94-K-4(i) SAMPLER..... PB

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn	✓			
KA124	blue slate	Traverse #2 5 1/2 mi. N of Drift pile Ck. 10 3/4 Mi E of Mt Mark	Ord	"	"		33	7	40	350			94-K-4(i) el 6220
KA125	black carbonaceous slate	"	"	"	"		16	8	49	405			94-K-4(i) el 6080
KA126	red spring iron breccia Shale bx	"	"	?	?	mixed frags shale	27	4	20	140			94-K-4(i) el 6000
KA127	Black Carbonaceous Slate	"	"	"	Nil		20	17	40	640			94-K-4(i) el 5830
KA128	Black shale slaty	"	"	"	"		14	5	72	360			94-K-4(i) el 5650
KA129	red spring iron breccia Shale bx lithitic matrix	"	"	"	"		32	5	38	335			el 5350 94-K-4(i)

28/7/76

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

PROJECT..... Kechika AREA..... 94-K-4(i) SAMPLER..... PB

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS					COMMENTS	
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn	V			
KA130	Soft red mud from active spring iron seep	Traverse #2 5 1/2 mi N Drift pile Ck. Ord 10 3/4 E of Mtn. Mark		"	"	Wet Mud	12	21	550	195			Wet Red Mud from Spring 94-K-4(i) el 5220
KA131	Black Slate	Traverse #2	"	"	"	Nil	116	16	34	640			94-K-4(i)
KA132	Vein material float	"	"	"	"	qtz & calcite	34	12	102	195			94-K-4(i)
KA133	dusty black bluish shale float	"	"	"	"	Nil	38	93	1030	800			94-K-4(i)
KA134	Blue black slate	"	"	"	"	"	20	410	560	5850			94-K-4(i)
KA129a	red spring iron breccia	Traverse #2	Ord	"	"	limonite matrix	33	17	950	380			94-K-4(i)
KA135	Red spring breccia 1 mi downstream		"	"	"	"	8	30	600	60			94-K-4(i)

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

10/8/76

PROJECT.....Kechika..... AREA.....94-K-4(k)..... SAMPLER.....J.I.....

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS	
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn					
KA5011	brecciated lithographic LS	7.5. mi. SE of North headwaters Camb Driftpile Ck 2 mi S of BM 8116			Buff orange weathering		9	73	352					Some oolites present 94-K-4(k)
KA5012	Calcareous grainstone with limonite particles	"	"		rusty		3	19	55					Only very narrow unit
KA5013	fine med grained calcareous grainstone	"	"		brown orange rust		4	40	144					with pyrite and heavily veined with quartz 94-K-4(k)
KA5014	Black carbonaceous slates	"	Ord		rusty		18	6	67					94-K-4(k)
KA5015	banded slaty siltstone	"	"				5	21	73					94-K-4(k)
KA5016	Black carbonaceous slates	"	"				24	26	153					94-K-4(k)
KA5017	"	"	"				4	5	41					K-4(k)
							148	27	137					

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING 10/8/76

PROJECT..... Kechika AREA..... 94-K-4 (n) SAMPLER..... PH

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn				
KA 2176	black chert SS	"	"		greenish yellow oxide stain	flecked with limonite spect	19	16	133				94-K-4 (n) el 6300
KA 2177	black calc silty mudstone	"	"				12	41	9				94-K-4 (n) el 6400
KA 2178	bk. chert sandstone	"	"		greenish yellow oxide stain		17	8	7				94-K-4 (n) el 6300
KA 2179	bk. py shale	"	"		rusty red brown weathering		8	19	32				94-K-4 (n)
KA 2180	bk. clay base of shale ridge	"	"			red brown specks in shales.	16	50	116				94-K-4 (n) in ck. draning ridge
KA 2181	bk. shale strong rusty weathering	1.5 mi S of D,P showing trenches	Ord			red brown specks in shale	11	14	22				94-K-4 (n)

11/8/76

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

PROJECT..... Kechika AREA..... 94-K-4(0) SAMPLER..... FP

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn				
KA3038	Fine grained limestone	3 mi. NE of D.P. See map	Camb	slight weathered crust & Fe oxides			9	72	74				Adjacent To contact 94-K-4(0)
KA3039	Black calcareous shale, fissile	"	Ord Kechika GP	"			19	36	16				94-K-4(0)
KA3040	Fetid fine grained dolostone tight	"	"	"	Dolomitization		10	27	215				94-K-4(0)
KA3041	Dark gray fine grained limestone	1.5 miles NE of D,P See map	Camb Atan Fm	weathered crust abundant Fe Oxides		0.1%	1160	88	19.35%	<20,000			visible sphale ite as garnet like euhedral crystals chose sample 5%Zn es 94-K-4(0)
													Scree Boulder Adjacent to contact 94-K-4(0)

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

PROJECT....Kechika..... AREA.....94-K-4(t)..... SAMPLER.. ..EP.....

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS					COMMENTS
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn			
KA5030	Dark gray fine grained limestone	3 mi. E of D,P on ridge	Camb Altan Fm	weathered crust Zn, Fe oxides		Zn; sphalerite Zn oxides	0.1% 920	0.05% 550	18.7% >20,000			Adjacent to carbonate shale contact Zn 5% 94-K-4(t)
KA5031	limestone breccia; sparry calcite matrix	"	Limestone Camb	"		"	14	420	17,000			" within spar filled zone Zn 1.2% 94-K-4(t) calcite 20%
KA5032	Medium gray calcareous shale	"	Camb	slight weathered crust minor Fe Oxides			20	46	150			Transition zone of contact 94-K-4(t)
KA5033	As for KA5031	"	Camb breccia fragments calcite matrix(?)	weathered crust Fe, Zn Oxides		Zn sphalerite Zn oxides	0.01% 100	0.05% 930	6.95% >20,000			Adjacent to contact; mineralization in calcite spar Zn
KA5034	Limestone breccia calcite matrix	"	Camb breccia fragments Calcite Matrix(?)	slight weathered crust		Cu; Chalcopyrite Malachite Azurite	0.12% 4,900	56	1540			Adjacent to contact; within brecciated spar filled zone Cu Zn 94-K-4(t)

GEOCHEMICAL DATA SHEET — SOIL SAMPLING

14/8/76

94-K-4 (w)

PROJECT.....Kechika.....

AREA.....

SAMPLER.....FP.....

SAMPLE NUMBER	LOCATION	DEPTH & HORIZON	DESCRIPTION			pH	SLOPE	VEG	ANALYTICAL RESULTS					COMMENTS	
			Colour	Part. Size	% Org.				Cu	Pb	Zn				
KB 3007	350'	1 foot	grey	silt-clay	1%		Flat	grass	NO SAMPLE					94-K-4 (w)	
KB 3008	300	"	"	"	"		"			"				94-K-4 (w)	
KB 3009	200	"	"	"	"		"			"				94-K-4 (w)	
KB 3010	100	"	"	"	"		"			"				94-K-4 (w)	
KB 3011	50' TO NNW	"	"	"	"		"		27	22	70			94-K-4 (w)	
KB 3012	100' TO NNW	"	"	"	"		"		19	16	86			94-K-4 (w)	

GEOCHEMICAL DATA SHEET — SOIL SAMPLING

PROJECT.....Kechika..... AREA.....94-K-4(w)..... SAMPLER... F.P.....

See Samples Location Map August 12/76 FP

SAMPLE NUMBER	LOCATION	DEPTH & HORIZON	DESCRIPTION			pH	SLOPE	VEG	ANALYTICAL RESULTS						COMMENTS	
			Colour	Part. Size	% Org.				Cu	Pb	Zn					
KB3000	3 mi E of DP Showing 50' from contact	1 foot	grey	silt clay <1g			negligeable		6	9					94-K-4(w)	Samples taken from centres of frost boils
KB3001	100'	"	"	"	"	"	"		NO SAMPLES						94-K-4(w)	Adjacent to contact of Ca And Okg
KB3002	150'	"	"	"	"	"	"			"					94-K-4(w)	Shale (Okg) side to West
KB3003	200'	"	"	"	"	"	"			"					94-K-4(w)	Zn Ba Mineralizatio found in Ca
KB3004	250'	"	"	"	"	"	"			"					94-K-4(w)	on East side of contact
KB3005	300'	"	"	"	"	"	"			"					94-K-4(w)	See Notes of F.P Aug. 14/76
KB3006	350	"	"	"	"	"	"			"					94-K-4(w)	

24/7/76

GEOCHEMICAL DATA SHEET — SOIL SAMPLING

PROJECT..... Kechika.....

AREA..... 94-K-14(a).....

SAMPLER....

FP

SAMPLE NUMBER	LOCATION	DEPTH & HORIZON	DESCRIPTION			pH	SLOPE	VEG	ANALYTICAL RESULTS					COMMENTS	
			Colour	Part. Size	% Org.				Cu	Pb	Zn				
KB-1	Toad R. Lodge Field on N side of Highway	1 foot Lower B	red brown	mud clay silt			flat	grass moss tree roots	3	13	38				underlain By Besa Shale 94-K14(a)
KB-2	"	"	"	"	5-10		"	"	7	15	51				94-K-14(a)
KB-3	"	"	"	"	5.10		"	"	6	18	56				94-K-14(a)
KB-4	"	"	"	"	5.10		"	"	15	20	51				94-K-14(a)
KB-5	"	"	"	"	5		"	"	9	18	54				94-K-14(a)
KB-6	"	"	enriched red brown	"	5		"	"	3	12	55				94-K-14(a)
KB-7	"	"	red brown	"	5		"	"	7	16	50				94-K-14(a)

GEOCHEMICAL DATA SHEET — SOIL SAMPLING

24/7/76

PROJECT..... Kechika..... AREA..... 94-K-14(a)..... SAMPLER... .FP.....

SAMPLE NUMBER	LOCATION	DEPTH & HORIZON	DESCRIPTION			pH	SLOPE	VEG	ANALYTICAL RESULTS						COMMENTS
			Colour	Part. Size	% Org.				Cu	Pb	Zn				
KB 8	Toad R. Lodge Field on N side of Highway	1 foot Lower B Minor A	red brown	Clay silt	1-2			grass moss tree roots	6	17	58				Underlain By Besa Shale 94-K-14(a)
KB 9	"	1 foot Lower B Upper C	"	"	5		"	"	10	22	27				94-K-14(a)
KB10	"	1 foot Lower B	"	" Minor sand	5		"	"	2	10	50				94-K-14(a)
KB11	"	1 foot Lower B Upper C	"	" Minor sand 2%	"		"	"	10	18	37				94-K-14(a)
KB12	"	1 foot Lower B	"	"	"		"	"	5	16	48				94-K-14(a)
KB13	"	"	"	" Sand 5%	"		"	"	8	18	53				94-K-14(a)
KB14	"	1 foot Lower B Upper C	"	" Sand 5%	"		"	"	15	22	35				94-K-14(a)

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING 27/7/76

PROJECT.....Kechika..... AREA...94-L-1(d)..... SAMPLER..PB.....

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn				
KA110	Slate	3 3/4 NW of Bighorn Mtn traverse E	Ord	"	Nil	Nil	7	30	35				94-L-1(d)
KA111	carbonaceous slate			"			28	30	76				94-L-1(d)
KA112	slate	"	"	"	"	"	11	32	40				94-L-1(d)
KA113	black slate	"	"	"	"	"	22	8	115				94-L-1(d)
KA114	black slate	"	"	"	"	"	36	10	96				94-L-1(d)
KA115	black slate	"	"	"	"	"	72	5	76				94-L-1(d)
KA116	"	"	"	"	"	"	66	7	74				94-L-1(d)

29/7/76

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

PROJECT.....Kechika..... AREA.....94-L-1(h)..... SAMPLER..... PH.....

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS	
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn		V			
KA3020	Siliceous mudstone pyritic	2 mi. N of Braid 11 mi E of Mt New	Ck Ord		gossaned surface		63	14	530			530		94-L-1(h)
KA3021	Black Fissile Shale	"	"		Slight weathered crust		21	17	140			510		94-L-1(h)
KA3022	Black Fissile Shale	"	"		Yellowish Oxide Powder Vanadium?		32	10	63			390		High S.G. 94-L-1(h)
KA3023	Quartz Carbonate Vein, cpy Malachite 1%	"	"			Qtz	1100	11	168			155		94-L-1(h)
KA3024	Black Pyrite Shale Fissile	"	"		Gossaned		55	10	81			435		94-L-1(h)
KA3025	Black, Pyritic shale Fissile	"	"		rusty weathered crust		50	56	310			180		94-L-1(h)

30/7/76

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

PROJECT.....Kechika..... AREA.....94-L-1(1)..... SAMPLER.....BM.....

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS	
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn	V				
KA1472	black slate	S. cirque Driftpile Creek	Ord					47	200	720	100			94-L-1(1)
KA1473	Slate	"	"					32	128	600	205			94-L-1(1)
KA1474	siltstone	"	"					13	180	630	52			94-L-1(1)
KA1475	Breccia	"	"					7	83	330	60			94-L-1(1)
KA1476	siltstone	"	"					25	94	365	88			94-L-1(1)
KA1477	Slate	N. cirque	"					44	66	215	150			94-L-1(1)
KA1478	ss	"	"					20	23	148	325			94-L-1(1)

9/8/76

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

PROJECT.....Kechika..... AREA.....94-L-1(o)..... SAMPLER.....BM.....

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS	
			AGE	FRESHNESS	ALTERATION	VEINING MET.	MIN.	Cu	Pb	Zn				
KA 1564	LS	94-L-1(o) Traverse II	Camb					7	96	34				94-L-1(o)
KA 1565	slate	"	Ord (?)					5	46	14				94-L-1(o)
KA 1566	LS	"	Camb					11	105	176				94-L-1(o)
KA 1567	LS	Traverse #2	Camb					8	80	81				94-L-1(o)
KA 1568	LS	"	"					10	82	920				94-L-1(o)
KA 1569	black slate	"	Ord (?)					7	46	43				94-L-i(o)

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING 28/8/76

PROJECT..... Kechika AREA..... 94-L-8(1) SAMPLER..... PB

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn	V	Comb		
KA256	Carbonaceous carbonate	Rough Showing	L Ord	"	Nil	I	5	85	270	140		Zn Pb	
KA257A	"	"	"	"	"	as below	4	46	450	140			Note close correlation between 2 sample of same material
KA257	Carbonaceous shale	"	"	"	"	sphalerite pyrite	8	51	375	130			
KA258	"	"	"	"	"	sphalerite pyrite	75	770	>20,000	110		4.46%	
								0.11%	4.35%				
KA259	"	"	"	"	"	"	88	2100	>20,000	100		6.79%	
								0.24%	6.55%				

5/8/76

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

PROJECT..... Kechika AREA..... 94-L-8(1) SAMPLER..... PH 18

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn				
KA2145	Pyritic Shale	Creek bed Showing Rough Property	Ord	Fe Stone Oxidized	Nil	ZnFe	20	260	1280				5'sample 94-6-8(1)
KA2146	Massive LS 50% pyritic Shale	"	"	Fe Stain Oxidized	"	Zn Fe	4	76	420				" 94-L-8(1)
KA2147	"	"	"	Fresh	"	Nil	4	94	228				" 94-L-8(1)
KA2148	"	"		"	"	"	3	68	131				" 94-L-8(1)
KA2149	"	"		"	"	"	3	65	112				" 94-L-8(1)
KA2150	"	"		"	"	"	3	67	90				" 94-L-8(1)
KA2151	"	"		"	"	"	3	62	122				" 94-L-8(1)

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

PROJECT..... Kechika AREA..... 94-L-8 (1) SAMPLER..... PH PB

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn				
KA2152	LS	Ck bed Showing Rough Property	Ord	Nil	Nil	Nil	5	73	258				94-L-8(1) 5' sample
KA2153	"	"	"	"	"	"	12	68	1300				94-L-8(1) "
KA2154	"	"	"	"	"	"	3	65	152				94-L-8(1) "
KA2155	"	"	"	"	"	"	4	61	390				94-L-8(1) "
KA2156	"	"	"	"	"	"	4	64	97				94-L-8(1) "
KA2157	"	"	"	"	"	"	4	62	96				94-L-8(1) "
KA2158	"	"	"	"	"	"	4	64	52				94-L-8(1) "

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

PROJECT..... Kechika AREA..... 94-L-8(1) SAMPLER..... 5/8/76 PHPB

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS	
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn					
KA2159	Pyritic shale lense	Ck bed	Ord	Oxidized partly	Fe stain	Fe Zn	40	500	720,000	2.40%	0.05%			5' sample 94-L-8(1)
KA2160	Carbonate minor LS	"	"	Nil	Nil	Nil	5	75	1680					5' sample 94-L-8(1)
KA2161	"	"	"	"	"	"	4	66	114					5' sample " 94-L-8(1)
KA2162	Pyritic Slate	"	"	Oxidized	Fe stain	Fe Zn	40	13400	720,000	0.14%	4.55%			15' sample 94-L-8(1)
KA2163	carbonaceous pyritic sh	"	"	"	"	Fe	4	182	920					10' sample 94-L-8(1)
KA2164	pyritic Sh	"	"	"	"	Fe	30	410	6800	0.60%				30' sample 94-L-8(1)
KA2165	"	"	"	"	"	Fe	11	36	720					10' sample 94-L-8(1)

6/8/76

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

PROJECT.....Kechika..... AREA.....94-L-8(1)..... SAMPLER.... .PB.....

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS	
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn	V	Fe%	Ti%		
KA200	Rough Showing Area	Unit 5c/6b Shale	Camb	"	secondary		64 0.01%	156	17,000 13.30%					smithsonite sample
KA201	"			"	Nil		27	122	3100					black slate red ck. 94-L-8(1)
KA202	"			"	Nil		28	88	1600					Carbonaceous shale red ck. 94-L-8(1)
KA203	"			"	Nil		56	88	3380					pyritic shale 94-L-8(1)
KA204	"			"	secondary		39	102	<20,000 3.62%					Zn Zup reacti red ck. spring 94-L-8(1)
KA205	"			Fe stain	Nil		56 0.01%	3400 0.34%	<20,000 4.55%					PbZn Fe shale from Ck. KD205
KA206	"			"	Nil		0.01% 116	0.08% 985	8.40% <20,000					

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

PROJECT.....Kechika..... AREA...94-L-8(1)..... SAMPLER..... BM.....

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn				
KA1540	LS Unit 5c	N of Drift- pile W of Gataga R, S of Through Traverse #1					9	86	450				94-L-8(1)
KA1541	dolomitic LS	"	"				9	26	75				94-L-8(1)
KA1542	argillite	"	"				18	46	275				94-L-8(1)
KA1543	argillite siltstone	"	"				34	230	135				94-L-8(1)
KA1544	LS	"	"				16	41	65				94-L-8(1)
KA1545	siltstone	"	"				16	81	149				94-L-8(1)
KA1546	LS	"	"				16	185	5000				94-L-8(1)

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

31/7/76

PROJECT.....Kechika.....

AREA.....94-L-8(a).....

SAMPLER.....PH.....

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn				
KA 2136	light grey coarse crystal LS with strong Zn min.	UTM 64620N 6665E (94-L-8(a))	"				14	340	20000	2.75%		38	scree float near Sc/6B contact at El 6900 Estimated grade 94-L-8(a) 12% Zn
KA 2137	arg cherty shale				strong rusty gossan		1060	680	12000	0,10% 0,08	1.10%	45	Trace Zn mineralization sampled from contact zone between 5c/6B 94-l-8(a)

check

GEOCHEMICAL DATA SHEET — SOIL SAMPLING

5/8/76

PROJECT.....Kechika.....

AREA....94-L-8(1).....

SAMPLER..

..PB.....

SAMPLE NUMBER	LOCATION	DEPTH & HORIZON	DESCRIPTION			pH	SLOPE	VEG	ANALYTICAL RESULTS					COMMENTS	
			Colour	Part. Size	% Org.				Cu	Pb	Zn				
KB20 KB21 KB22	along ridgeline @gz 265 E to W @ el 6000'	B-3 or C-1	black soil over slate	40% 55% 10%			Flat ridge- line	ge- Alpine grass slate felsenmere	35 19 62	56 70 48	142 72 220				94-L-8(1)
KB23 KB24 KB25	Showing @250 intervals	"	"	20 25 20					64 104 69	51 84 66	2500 1750 183				10% qtz frag 15% qtz frag 94-L-8(1)
KB26 KB27 KB28	" 50' intervals "	"	"	20 50 50%					72 52 79	120 178 310	400 288 380				Zn float in frost- heave 94-L-8(1)
KB29 KB30 KB31	" " "	"	"	60 55 55%	5% 5%			turf "	5 74 65	28 260 117	8100 320 1300				" 94-L-8(1)
KB32 KB33 KB34	" " "	"	"	55 55 55%	5 5 5%			" " "	91 40 19	260 48 26	1400 460 54				" 94-L-8(1)
KB35 KB36 KB37	" fault " contact " contact Unit 5c/6b	"	"	80 80 10%					21 14 20	390 163 42	129 35 28				" 94-L-8(1)

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

5/8/76

PROJECT..... Kechika AREA..... 94-L-8(1) SAMPLER..... PH PB

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn				
KA2138	Massive LS	Ck bed Showing Rough Property	Ord?	"		Nil	4	68	54				5' sample. top of section 94-L-8(1)
KA2139	Pyritic Shale		Ord?	Fe stain		FeS ZnS Hydrozincite	37	470 0.05%	>20,000 2.32%				5' sample. The assay of the following samples may not be significant as gossan material was included 94-L-8(1)
KA2140	"	"	"	"		"	26	110	870				94-L-8(1)
KA2141	"	"	"	"		"	64	1260 0.01%	>20,000 5.70%				94-L-8(1)
KA2142	"	"	"	"		"	28	610 0.06%	>20,000 2.00%				94-L-8(1)
KA2143	"	"	"	"		"	29	720	1080				94-L-8(1)
KA2144	"	"	"	"		"	50	300	>20,000 3.75%				94-L-8(1)

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

PROJECT..... Kechika AREA..... 94-L-8(h) SAMPLER..... BM

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn				
KA1550 KA 1550A	LS Black LS	Ridge E of Rough Showing	Emb P.Camb?	Ok	minor		4 4	91 62	34 41				94-L-8(h)
KA1551	black shale	"	Ord (?)				98	44	242				94-L-8(h)
KA1552	argillite	"	"				17	25	124				94-L-8(h)
KA1553	slate	"	"				18	22	70				94-L-8(h)
KA1554	shale breccia	"	"			sparry	14	17	18				94-L-8(h)
KA1555	argillite	"	"				22	19	73				94-L-8(h)
KA1556	black slate	"	"				36	23	142				94-L-8(h)

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING 23/7/76

PROJECT..... Kechika AREA..... 94-L-10(a) SAMPLER..... PH

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS	
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn					
KA2063	br. mud-stone with shaly wisps Unit 6b	North slope of ridge on E. side of Netson Lake.	Upper Ord					30	15	76				contains pyrite blebs 94-L-10(a)
KA2064	"	"	"					38	14	28				94-L-10(a)
KA2065	bk. sandstone grading to grey-wacke	"	"					6	37	49				contains sand shaly frags and fossil frags 94-L-10(a)
KA2066	dk. grey ortho-quartzite	"	"			weathers rusty brown		18	8	53				94-L-10(a)
KA2067	"	"	"			strong rusty gossan rainbow colors		24	6	123				94-L-10(a)
KA2068	"	"	"					11	5	68				94-L-10(a)
KA2069	black shale	"	"			yellow brown oxidation		32	16	87				moderately fissile 94-L-10(a)

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING 24/7/76

PROJECT.....Kechika..... AREA.....94-L-10(h)..... SAMPLER.....PH.....

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS	
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn					
KA2081	black shales (Graptolitic L. on Unit 6b)	6 mi. SE of Netson Ridge NW of Bluff Creek	Lower Ord					44	14	13				94-L-10(h)
KA2082	greyish black sandstone		"					18	6	75				94-L-10(h)
KA2083	black pyritic shales		"					54	24	127				94-L-10(h)
KA2084	black carb shales							19	36	58				94-L-10(h)
KA2085	black carb shales							20	28	95				94-L-10(h)
KA2086	black carb shales							19	29	88				94-L-10(h)
KA2087	black carb shales							46	22	55				94-L-10(h)

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING 24/7/76

PROJECT..... Kechika AREA..... 94-L-10 (h) SAMPLER..... PH

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn				
KA2088	black carb shales Unit 6B	6 mi. SE of Netson Lake on Ridge NW of Bluff Creek	Lower Ord				20	29	82				94-L-10 (h)
KA2089	"	"	"				30	26	73				94-L-10 (h)
KA2090	"	"	"				21	32	71				94-L-10 (h)
KA2091	"	"	"				14	32	39				94-L-10 (h)
KA2092	"	"	"				17	33	59				94-L-10 (h)
KA2093	"	"	"				16	28	48				94-L-10 (h)

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

21/6/76

PROJECT... Ketchika

AREA... 94-L-13 (b)

SAMPLER.....

PH

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS	
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn					
KA8000	black dol micrite	beginning of traverse June 21		G				4	8	14				94-L-13 (b)
KA 8002	med. grey domite grainstone			G				4	8	13				94-L-13 (b)
KA 8003	dolomite grainstone	from weathered calcite vein		F				4	8	42				94-L-13 (b)
KA 8004	crinoid bed light grey grainstone			G				4	4	15				94-L-13 (b)
KA 8005	quartz banded grainstone ridge forming	top of Mtn. from drop off		G				5	8	13				94-L-13 (b)
KA 8006	Black dol micrite	top of ridge going west.		G				7	9	47				94-L-13 (b)
KA 8007	Black dol micrite slate cleavage			G				6	11	31				94-L-13 (b)

21/6/76

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

PROJECT..... Ketchika AREA 94-M-3 (4) SAMPLER..... PB

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn				
KA 46	siliceous cherty horizen At showing	Boya Showing Hill north of Chee Mtn	Ord (?)	oxidized surface		occasional normal qtz veins generally unmineralized	640	18	22000				breast samples see notes 94-M-3 (1)
KA 47	"	"	"	"		"	99	7	700				for spacing approx 50' 94-M-3 (1)
KA 48	"	"	"	"		"	104	8	270				94-M-3 (1)
KA 49	"	"	"	"		"	192	4	76				94-M-3 (1)
KA 53	"	"	"	"		"	1020	23	290				Vertical sample top to bottom 94-M-3 (1)
KA 54	"	"	"	"		"	110	6	580				approx. 2' spacing See notes 94-M-3 (1)
KA 55	"	"	"	"		"	320	3	255				Massive Mineralization Py Pyrrhotite 94-M-3 (1)

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING 29/6/76

PROJECT..... Kechika..... AREA..... 94-M-3 (1)..... SAMPLER..... PB.....

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn				
KA 59 KA59	LS	Boya Showing	Ord?	Fresh OC	Nil	Nil	6 92	2 7	12 33	Note Sample # Mixed			See sample KD 94-M-3 (1) 59
KA 60 KA60	Slate	"	"	"	"	"	43 20	9 2	58 23				KD-60 94-M-3 (1)
KA 61 KA61	Ortho Qtz	"	"	"	"	"	114 28	8 2	27 75				KD-61 94-M-3 (1)
KA 62 KA62	intercalated slate lense	"	"	"	"	"	81 6	8 7	20 13				94-M-3 (1)
KA 63	"	"	"	"	"	"	152	34	1100				94-M-3 (1)
KA 64	intercalated qtz volc?	"	"	"	"	"	18	6	56				94-M-3 (1)

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

14/6/76

PROJECT..... Ketchika AREA..... 94-M-4 (b) SAMPLER..... BM

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn				
R-A 1040	LS	3 mi. SW of Birches Lake Camp	Ord (?)	some algae		minor calcite	7	2	7				94-M-4 (b)
K-A 1041	qtz vein float	"	(?)	"		malachite	2500	75	87				94-M-4 (b)
K-A 1043	calcite + dol vein material	"	"	some weathered surface			46	3	2				94-M-4 (b)
K-A 1044	LS	"	"	some bn weathered surface		minor calcite	32	2	2				94-M-4 (b)
K-A 1045	shale	"	"	"			23	8	73				94-M-4 (b)
K-A 1046	carb. shale	"	"	"			21	7	154				94-M-4 (b)
K-A 1047	LS	"	"	"			11	2	2				94-M-4 (b)

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

16/6/76

PROJECT.....Ketchika.....

AREA.....94-M-4 (c).....

SAMPLER.....PB.....

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn				
KA 26		E. bank Kechika R. at mouth Turnagain R.	E.-Ord Unit 4 b	Weathered	micaceous on cleavage	qtz in bedding 1/8 to 1/4 occasional qtz vein	10	6	29				All samples test approx same horizon 94-M-4 (c)
KA 27	"	"	"	Fresh	"	"	31	7	55				94-M-4 (c)
KA 28	"	"	"	"	"	"	7	5	13				94-M-4 (c)
KA 29	"	heading downstream	"	"	"	"	13	10	41				94-M-4 (c)
KA 30	"	"	"	Weathered	"	"	10	4	3				94-M-4 (c)
KA 31	"	1000 east of OC	"	"	"	"	28	6	56				94-M-4 (c)
KA 32	"	1000 east of OC	"	"	"	"	26	3	101				94-M-4 (c)

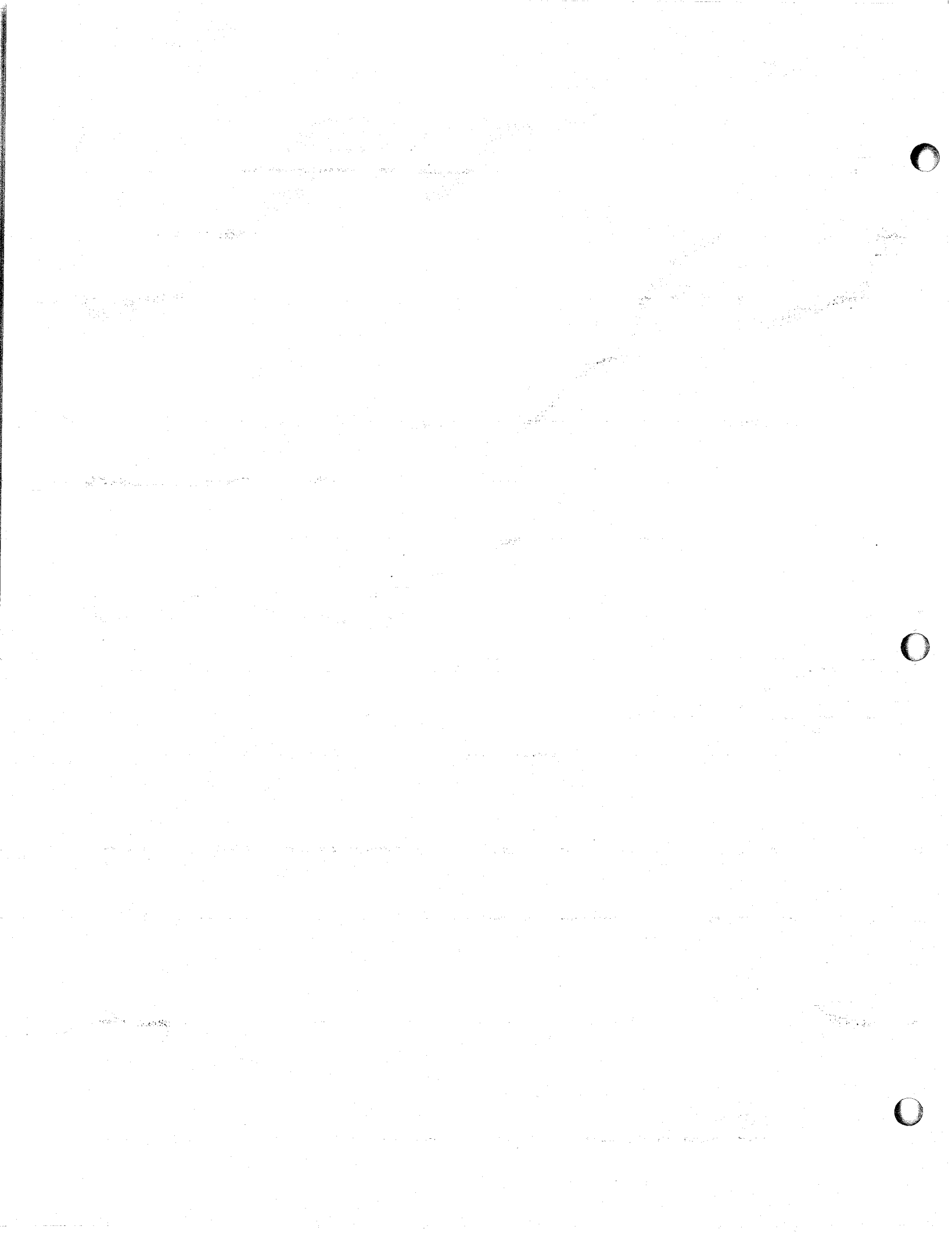
16/6/76

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

PROJECT... Ketchika AREA... 94-M-4 (d) SAMPLER..... BM

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn				
KA 1071	Aphanitic LS	Ridge W. of Birches Lake	4a	Fresh	Pronounced cleavage developed superimposed		38	13	24				94-M-4 (d)
KA 1072	"	"	"	Weathered	"	"	24	9	9				94-M-4 (d)
KA 1073	"	Ridge W. of Twin Isl. Lake	"	Fresh	"	"	26	8	14				94-M-4 (d)
KA 1074	Phyllite	"	"	"	None	PY no veins	195	8	45				94-M-4 (d)
KA 1081	"	"	"	"	"	"	193	8	45				94-M-4 (d)

samples mixed



18/6/76

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

PROJECT.....Ketchika..... AREA.....94-M-4 (g)..... SAMPLER..... PH.....

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn				
KA 3006	Siliceous material nodular Limestone	S. facing slope 1 mi. SW of Twin Island Lake		slight weathered crust	"		2	4	18				94-M-4 (g)
KA 3007	Micritic Limestone	"		"	"		4	5	36				94-M-4 (g)
KA 3008	"	"		"	"		4	4	29				94-M-4 (g)
KA 3009	"	"		"	"		5	5	36				94-M-4 (g)
KA 3010	"	"		minor weathered crust	"		2	6	22				94-M-4 (g)
KA 3011	Siliceous material nodular Limestone	"		slight weathered crust	"		3	3	21				94-M-4 (g)
KA 3012	Micritic Limestone	"		"	"		4	5	28				94-M-4 (g)

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

18/6/76

PROJECT.....Ketchika..... AREA...94-M-4(h)..... SAMPLER.....PH.....

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn				
KA 2020	LS Fn grained homog mudstone			black cliff face active mass wastage			3	12	31				94-M-4 (h)
KA 2021	"			"			5	10	26				94-M-4 (h)
KA 2022	"			"			4	7	32				94-M-4 (h)
KA 2023	"			"			5	6	41				94-M-4 (h)
KA 2024	cherty boulders shaly dolomite matrix			recessive strong rubbly Limestone texture staining			11	66	33				94-M-4 (h)
KA 2025	Argillaceous shales			highly fissile			18	10	180				94-M-4 (h)

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

June 14/76

PROJECT.....Kechika.....

AREA.....94-M-5 (b).....

SAMPLER.....PH.....

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn				
KA-2001	Micaceous phyllite shale	4 mile north of Davie Cr. Kechika R. west	Ord			qtz veining with calcite local py min veins	ppm 28	ppm 2	ppm 23				Unit 4b 94-M-5 (b)
KA-2002	"	"	"				30	2	10				94-M-5 (b)
KA-2003	"	"	"				32	2	18				" 94-M-5 (b)
KA-2004	"	"	"				30	2	12				" 94-M-5 (b)
KA-2005	"	"	"				24	2	25				" 94-M-5 (b)
KA-2006	"	"	"				47	4	30				" 94-M-5 (b)

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

June 15, 1976

PROJECT.....Ketchika..... AREA.....94-M-5 (c)..... SAMPLER..... PH.....

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn				
KA 2009	micaceous phyllite shale	9.5. mi. north of Davie Cr. Ketchika R. West 9000'	Ord			qtz veining strong limonite staining	38	19	580				94-M-5 (c) Unit 4b
KA 2010	bk. fine grained quartzite	"	"			qtz veining no sulphides	11	11	4				94-M-5 (c)
KA 2011	black quarteite (Fined grained)	"	"				6	6	12				94-M-5 (c)
KA 2012	black quartzite fine med. grained	"	"				7	2	13				94-M-5 (c)
KA 2013	dark grey flintstone	"	"				18	7	120				94-M-5 (c)
KA 2014	brownish gray silty dolostone	"	"				46	16	185				94-M-5 (c)

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

16/7/76

PROJECT..... Kechika AREA... 94-M-7(b) SAMPLER..... PB

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn				
85A	Intrusive	Headwaters Vents CK Unit A	Post Dev	"	Nil	Nil	14	16	14				Float in Ck 94-M-7(b)
KA85B	"	"	"	"	"	"	6	28	10				94-M-7(b)
KA85C	"	"	"	"	"	"	72	15	36				94-M-7(b)
KA85D	"	"	"	"	"	"	No	Sample					94-M-7(b)
KA85E	"	"	"	"	"	"	4	11	58				94-M-7(b)
KA85F	"	"	"	"	"	"	93	10	60				94-M-7(b)
KA85G	"	"	"	"	"	"	47	21	73				94 m-7(b)

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

17/7/76

PROJECT Kechika AREA 94-M-8 (a) SAMPLER PH

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS	
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn					
KA2036	crinoidal fetid dol (black) Unit 8	6 1/2 north of Liard Mid R. Bridge Dev on anticline Liard R.		good outcrop			5	46	13					base 94-M-8 (a)
KA2037	med. grey dol grainstone (fetid)	"	"				6	49	19			(gradational) Repeated thru 1500' of section Typical Cyclic Unit	upper 94-M-8 (a)	
KA2038	dark grey dol grainstone (fetid)	"	"				6	49	31				middle 94-M-8 (a)	
KA2039	fetid black dol	"	"				5	57	19				basal LS thick 94-M-8 (a)	
KA2040	Breccia (intra fm) calc-spar limonite inf lling	"	"				8	240	5000				94-M-8 (a)	
KA2041	breccia with mud (micritic) matrix	"	"				6	51	64			94-M-8 (a)		

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING 19/7/76

PROJECT.....Kechika..... AREA.....94-M-8(d)..... SAMPLER.....PH.....

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn				
KA2042	bk. fetid dolor (crinoidal)	south flank of Syncline 4 mi. north of Lapie C.	Mid Dev			pervasive crackling (calc-spar)	6	56	230				Unit 8 all samples 94-M-8(d)
KA2043	dk. grey dolo grainstone (med. texture)	"	"			calcite veining	6	51	51				94-M-8(d)
KA2044	dk. grey dolo grainstone (med) (Fetid)	"	"			pervasive crackling (calc-spar)	5	49	23				" 94-M-8(d)
KA2045	"	"	"				5	53	20				thinly bedded 94-M-8(d)
KA2046	"	"	"				6	49	17				94-M-8(d)
KA2047	bk. dolo micrite (fetid) amphipora rich	"	"				6	49	13				" 94-M-8(d)
KA2048	bk. fetid dolo micrite	"	"				5	46	11				" 94-M-8(d)

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

19/7/76

PROJECT..... Kechika

AREA..... 94-M-8(d)

SAMPLER..... PH

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn				
KA2049	med. grey dolo micrite	south flank of Syncline 9 miles north of Lapie L	Mid Dev				6	49	7				94-M-8(d)
KA2050	"	"	"				5	49	7				Pale Pink Zinc Zap reaction 94-M-8(d)
KA2051	bleached dolo micrite horizon	"	"				4	44	7				pink reaction with zinc Zap 94-M-8(d)
KA2052	Dark grey dolo micrite	"	"				5	50	7				94-M-8(d)
KA2053	limestone slope breccia Unit 7	"	"				9	52	9				matrix (micrite limestone) weathers light grey 94-M-8(d)
KA2054	LS Breccia Unit 7	"	"				10	44	16				weathers orange red 94-M-8(d)
KA2055	LS Breccia rubble debris zone	"	"				10	34	16				weathers orange pink 94-M-8(d)

19/7/76

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

PROJECT..Kechika..... AREA.....94-M-8(g) 94-M-8(f)..... SAMPLER.....PB.....

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn				
KA81	Unit 5 Silurian Carb	3 1/2 mi SE of Forcier Traverse	Silurian #3	"	Nil	Nil	9	49	8				94-M-8(g)
KA82	"	"	"	"	"	"	6	50	48				94-M-8(g)
KA83	"	"	"	"	"	"	6	53	2				94-M-8(g)
KA84	"	"	"	"	"	"	9	36	12				94-M-8(g)
KA78	Unit 7 Carb	N side Slope bx Hoole Ck 1 mi. Traverse	Dev #2	"	"	"	10	27	32				94-M-8(f)
KA79	as above	"	"			ferruginous cement	8	41	9				94-M-8(f)
KA80	as above	"	"			hydrocarbon	11	29	13				94-M-8(f)

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

9/6/76

PROJECT.....Kechika..... AREA.....104-P-1 (a)..... SAMPLER.....PB.....

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn				
KA-1	LS	1 mile E. of Hidden Valley Creek Showing	C- Ord Unit 4A Lowin Unit	Weathered Greenish White OC	Brown Green	Qtz	ppm 147	ppm 52	ppm 13				PBPH BM 104-P-7 (a) June 9/76
KA-10	Qtz Vein	Hidden Valley Ck Showing # 1 See notes for Detail	C- Ord Hugh in Kechika FM same as 4A	Fresh White Qtz		cpy Qtz	5520	5	23				104-P-1 (1) Note Unit 4A Rabbit River Kechika Fm McDame
KA-11	Qtz Vein	"	"	Weathered oxidized	Oxidized	Malachite Azurite cpy Qtz	415	28	31				104-P-1 (1)
KA-15	FW	"	"	Weathered Competent OC Brown			86	18	51				"
KA-16	"	"	"	"			42	19	15				"
KA-17	Vein Interbed Phyllite Pellite	"	"	Weathered incompetent greenblack		tr Qtz	124	6	9				"
KA-18		"	"	"		tr Qtz	2400	3	6				

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

18/6/76

PROJECT. Ketchika

AREA. 104-P-1 (b)

SAMPLER.....

BM

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn				
KA 1100	LS	Zebra Mtn. Ridge 9 mi. due W Birches Lk.	Miss	Fresh	Nil	Nil	6	6	23				104-P-1 (b)
KA 1101	LS	"	"	"	"	"	6	7	38				104-P-1 (b)
KA 1103	LS	"	"	"	"	"	7	5	65				104-P-1 (b)
KA 1105	LS	"	"	"	"	"	7	6	54				104-P-1 (b)
KA 1106	LS	"	"	"	"	"	7	8	54				104-P-1 (b)
KA 1107 a	LS	"	"	"	"	"	7	6	31				104-P-1 (b)
KA 1107 A	LS	"	"	"	"	"	7	5	67				104-P-1 (b)

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

19/6/76

PROJECT..... Ketchika

AREA..... 104-P-1 (c)

SAMPLER..... BM

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn				
KA 1120	LS	Mtn. top	Miss	fresh	Nil	Nil	5	6	31				104-P-1 (c)
KA 1121	SS	float	(?)	"	"	"	5	3	38				104-P-1 (c)
KA 1124	phyllite	float	(?)	"	"	"	3	8	13				104-P-1 (c)
KA 1125	Shale	saddle	(?) under lies Miss	"	"	"	4	10	6				104-P-1 (c)
KA 1126	Chert	ridge	Miss	"	"	"	10	3	144				104-P-1 (c)
KA 1127	shale	"	"	"	"	"	35	5	560				104-P-1 (c)
KA 1132	LS	"	"	"	"	"	6	3	43				104-P-1 (c)

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING 20/6/76

PROJECT..... Ketchika AREA..... 104-P-1(e) SAMPLER..... PB

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS	
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn					
KA 39	Ketchika slate Phyllites minor LS	Traverse #2 104-P-1 5 1/4 Mi. W of solidory Lake	Ord	weathered OC	phyllite locally	some quartz many boulders in creek bed	16	23	78					104-P-1(e)
KA 40	"	stream traverse	"	"	"	"	29	30	88					104-P-1(e)
KA 41	"	"	"	"	"	"	12	8	50					104-P-1(e)
KA 42	"	"	"	"	"	"	22	15	75					104-P-1(e)
KA 43	"	"	"	"	"	"	5	9	12					104-P-1(e)
KA 44	Ketchika slates phyllites minors	5 1/4 mi. W. of solidory Lake	Ord S11	weathered	phyllite slate	some qtz veining	8	18	31					104-P-I (e)
KA 45	Ketchika LS	6 3/4 mi W of Birches	"	orange stained LS qtz veins	red oxidized surface	qtz veins	8	6	9					104-P-I (e)

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

23/8/76

PROJECT... Ketchika

AREA... 104-P-1 (g)

SAMPLER... BM

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn				
KA 1162	limonite	1.4 mi. E. of Sandpile Lake on Ridge Top	Dev	"	"	"	15	166	20				104-P-1 (g)
KA 1164	black Fe rich dolostone	"	"	"	"	"	6	17	11				104-P-1 (g)
KA 1165	shale	"	"	"	"	"	7	21	8				104-P-1 (g)
KA 1166	sandstone	"	"	"	"	"	27	3	121				104-P-1 (g)
KA 1169	pyrite nodule rich siltstone	"	"	"	"	"	9	12	37				104-P-1 (g)
KA 1173	carbonaceous shale	valley bottom	"	"	"	"	80	17	835				104-P-1 (g)
KA1167			"	"	"	"	16	19	63				104-p-1(g)

GEOCHEMICAL DATA SHEET— ROCK CHIP SAMPLING

20/6/76

PROJECT..... Ketchika AREA..... 104-P-8 (a) SAMPLER..... PH

SAMPLE NUMBER	ROCK TYPE	LOCATION	DESCRIPTION				ANALYTICAL RESULTS						COMMENTS
			AGE	FRESHNESS	ALTERATION	VEINING MET. MIN.	Cu	Pb	Zn				
KA 5000	cherty nodular LS	6.5. mi. W. of Aeroplane Lk.	M/S	Thin weathered crust			6	6	35				104-P-8 (a)
KA 5001	"	"		"			7	7	77				104-P-8 (a) weathers to ochre red in shear zones
KA 5002	"	"		"			5	7	37				LS more coarsely crystalline 104-P -8 (a)
KA 5003	"	"		"			6	5	30				104-P-8 (a)
KA 5004	"	"		"			5	6	39				104-P-8 (a)
KA 5005	"	"		"			6	5	33				less chert 104-P-8 (a)

KECHIKA PROJECT 1976

APPENDIX C - Traverse Location Record
 NTS File

NTS

94-B-12

Kechika Project

1976

GEOLOGICAL TRAVERSES

94-B-12

a PH

20/8/76

NTS

94-C-16

Kechika Project

1976

GEOLOGICAL TRAVERSES

94-C-16

a PH
b BM

23/8/76

23/8/76

NTS

94-C-9

Kechika Project

1976

GEOLOGICAL TRAVERSES

94-C-9

a BM

20/8/76

NTS

94-F-1

GEOLOGICAL TRAVERSES

Kechika Project
1976

94-F-1	a	PH	18/8/76
	b	PH	18/8/76
	c	BM	18/8/76
	d	BM	18/8/76
	e	BM	19/8/76
	f	BM	19/8/76

NTS

94-F-2

GEOLOGICAL TRAVERSES

Kechika Project
1976

94-F-2	a	PH	17/8/76
	b	BM	17/8/76
	c	PB	17/8/76
	d	BM	22/8/76

NTS

94-F-7

GEOLOGICAL TRAVERSES

Kechika Project
1976

94-F-7	a	PB	22/8/76
	b	PH	22/8/76
	c	PH	22/8/76
	d	BM	22/8/76
	e	PH	25/8/76
	f	PB	25/8/76

NTS

94-F-8

Kechika Project
1976

GEOLOGICAL TRAVERSES

94-F-8 a

PH

19/8/76

NTS

94-F-13

Kechika Project
1976

GEOLOGICAL TRAVERSES

94-F-13

a PH
b BM

10/8/76
26/8/76

NTS

94-F-14

Kechika Project
1976

GEOLOGICAL TRAVERSES

94-F-14

a PB
b BM

24/8/76
24/8/76

NTS 94-K-3

Kechika Project
1976

GEOLOGICAL TRAVERSES

94-K-3 a BM 1/8/76

NTS 94-K-4

Kechika Project
1976

GEOLOGICAL TRAVERSES

94-K-4	a	PH	25/7/76
	b	PB	25/7/76
	c	BM	25/7/76
	d	BM	25/7/76
	e	PB	28/7/76
	f	BM	28/7/76
	g	PH	28/7/76
	h	PH	28/7/76
	i	PB	28/7/76
	j	FP	8/8/76
	k	JIGS	10/8/76
	l	BM	10/8/76
	m	BM	10/8/76
	n	PH	10/8/76
	o	FP	11/8/76
	p	BM	11/8/76
	q	BM	11/8/76
	r	BM	12/8/76
	s	BM	12/8/76
	t	FP	12/8/76
	u	PH	12/8/76
	v	BM	14/8/76
	w	FP	14/8/76
	x	PH	14/8/76
	y	PB	14/8/76

94-K-4	(1)	DP	Showing (Placer) Driftpile Ck
	(1)	PB	27/7/76
	(1)	PBJM	8/8/76

NTS 94-K-5
GEOLOGICAL TRAVERSES

Kechika Project
1976

94-K-5	a	PH	2/8/76
	b	BM	2/8/76

NTS 94-K-6
GEOLOGICAL TRAVERSES

Kechika Project
1976

94-K-6	a	PH	1/8/76
	b	PH	1/8/76
	c	BM	1/8/76

NTS 94-K-12
GEOLOGICAL TRAVERSES

Kechika Project
1976

94-K-12	a	PH	2/8/76
	b	BM	2/8/76

NTS 94-K-14
GEOLOGICAL TRAVERSES

Kechika Project
1976

94-K-14	a	FP	
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NTS 94-L-1

Kechika Project
1976

GEOLOGICAL TRAVERSES

94-L-1	a	PH	27/7/76
	b	BM	27/7/76
	c	PH	27/7/76
	d	PB	27/7/76
	e	BM	27/7/76
	f	BM	28/7/76
	g	PH	29/7/76
	h	PH	29/7/76
	i	PH	29/7/76
	j	PH	29/7/76
	k	PH	30/7/76
	l	BM	30/7/76
	m	BM	9/8/76
	n	PH	8/8/76
	o	BM	9/8/76
	p	BM	7/8/76
	q	BM	9/8/76

NTS 94-L-7

Kechika Project
1976

GEOLOGICAL TRAVERSES

94-L-7	a	PH	24/7/76
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NTS

94-L-8

GEOLOGICAL TRAVERSES

Kechika Project

1976

94-L-8

a	PH	31/7/76
b	BM	31/7/76
c	BM	31/7/76
d	BM	5/8/76
e	BM	5/8/76
f	BM	24/7/76
g	PH, PB	5/8/76
h	BM	8/8/76

94-L-8

(1)	Rough Showing	
(1)	PH	31/7/76
(1)	PH, PB	5/8/76
(1)	PB, JM	7/8/76
(1)	PH	7/8/76
(1)	BM	7/8/76
(1)	PB, JM	8/8/76
(1)	PB, PH	9/8/76 Staking
(1)	PB BM	28/8/76 "
(1)	PB BM	29/8/76 "

NTS

94-L-9

GEOLOGICAL TRAVERSES

Kechika Project

1976

94-L-9

a	PH	3/8/76
b	BM	3/8/76

NTS 94-L-10
GEOLOGICAL TRAVERSES

Kechika Project
1976

94-L-10	a	PH	23/7/76
	b	BM	23/7/76
	c	PB	23/7/76
	d	PH	23/7/76
	e	BM	23/7/76
	f	PB	23/7/76
	g	BM	24/7/76
	h	PH	24/7/76

NTS 94-L-13
GEOLOGICAL TRAVERSES

Kechika Project
1976

94-L-13	a	PH	11/6/76
	b	PH	21/6/76
	c	PB	22/6/76
	d	PH	22/6/76
	e	PH	29/6/76
	f	PB	5/7/76
	g	PH	5/7/76
	h	PH	6/7/76

NTS 94-L-14
GEOLOGICAL TRAVERSES

Kechika Project
1976

94-K-14	a	PH	25/6/76
	b	PH	27/7/76
	c	PH, PB	2/7/76

NTS

94-M-1

Kechika Project

GEOLOGICAL TRAVERSES

1976

94-M-1	a	PB	20/7/76
	b	PB	20/7/76
	c	BM	20/7/76
	d	BM	20/7/76
	e	BM	20/7/76
	f	PH	20/7/76
	g	PH	20/7/76
	h	PH	20/7/76

NTS

94-M-2

Kechika Project

GEOLOGICAL TRAVERSE

1976

94-M-2	a	BM	13/6/76
	b	BM	15/6/76

NTS

94-M-3

Kechika Project

GEOLOGICAL TRAVERSES

1976

94-M-3	a	BM	10/6/76
	b	BM	22/6/76
	c	PB	6/7/76
	d	BM	6/7/76
	e	BM	7/7/76

94-M-3	(1)	Boya Showing	(1)	PB	27/6/76	
	(1)	BM	11/6/76	(1)	PB	29/6/76
	(1)	BM	12/6/76			
	(1)	PH	12/6/76			
	(1)	PB	12/6/76			
	(1)	BM	21/6/76			
	(1)	PB	21/6/76			
	(1)	PB, BM, PH	26/6/76			

NTS

94-M-4

Kechika Project

GEOLOGICAL TRAVERSES

1976

94-M-4	a	PB	13/6/76
	b	BM	14/6/76
	c	PB	16/6/76
	d	BM	16/6/76
	e	PH	17/6/76
	f	BM	17/6/76
	g	BM	17/6/76
	h	PH	18/6/76
	i	PH	
	j	PH	28/6/76

NTS

94-M-5

Kechika Project

GEOLOGICAL TRAVERSES

1976

94-M-5	a	PH	13/6/76
	b	PH	14/6/76
	c	PH	15/6/76

NTS

94-M-6

Kechika Project

GEOLOGICAL TRAVERSES

1976

94-M-6	a	PH	16/6/76
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NTS

94-M-7

Kechika Project
1976

GEOLOGICAL TRAVERSES

94-M-7

a	PB	16/7/76
b	BM	16/7/76
c	PH	16/7/76
d	BM	17/7/76

NTS

94-M-8

Kechika Project
1976

GEOLOGICAL TRAVERSES

94-M-8

a	PH	17/7/76
b	PB	17/7/76
c	BM	19/7/76
d	PH	19/7/76
e	PB	19/7/76
f	PB	19/7/76
g	PB	19/7/76

NTS

104-I-16

Kechika Project

1976

GEOLOGICAL TRAVERSES

104-I-16

a
b

PH
PH, PB

1/7/76
4/7/76

NTS 104-P-1
GEOLOGICAL TRAVERSES

Kechika Project
1976

104-P-1	a	PB	BM	9/6/76
	b	BM		18/6/76
	c	BM		19/6/76
	d	PB		20/6/76
	e	PB		20/6/76
	f	PH		23/6/76
	g	BM		23/6/76
	h	BM		25/6/76
	i	BM		27/6/76
	j	BM		28/6/76
	k	BM		29/6/76
	l	BM		30/6/76
	m	PH		30/6/76
	n	BM		1/7/76
	o	BM		2/7/76
	p	BM		4/7/76
	q	BM		5/7/76

104-P-1	(1)	Hidden Valley Ck. Cu Showing
	(1)	pB PH 9/6/76
	(1)	BM 9/6/76

NTS 104-P-8
GEOLOGICAL TRAVERSES

Kechika Project
1976

104-P-8	a	PH	20/6/76
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