REPORT ON THE BLACK, VAL, VAM MINERAL CLAIMS WATSON LAKE MINING DIVISION YUKON

008526

for

KERR ADDISON MINES LIMITED
703 - 1112 West Pender St.,
VANCOUVER,B.C.

MAP 105 G 14
LAT 65° 47'
LONG 131° 20'

by

J.W. MURTON, P. Eng.

November 1978

KERR ADDISON MINES LIMITED

(FOR INTER-OFFICE USE ONLY)

DEC 8 1978

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D.B.
A. I.C.
P.S.C.
W.J.
D.A.L.
J.B.S.
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FILE

To D.A. Lowrie *From* W.M. Sirola, Vancouver

Subject CARLOS/HARRIS OPTION - Finlayson Lake Area - Yukon Territory *Date* December 5th, 1978.

Accompanying this Memorandum is a report by Wayne Murton covering the work done on the Black, Val, and Vam Claims. The contents of this report maybe summarized as follows:

BLACK CLAIMS

The original premise that the bleached phyllite encountered in a previous drill hole on this property was an infallible indication of massive sulfides, was disproved by our two drill holes which encountered weekly pyritized conductive phyllites and a moderately magnetic serpentinite.

VAM CLAIMS

No evidence of lead/zinc mineralization was found by soil geochemistry covering a rather formidable conductor on the north boundary of the claims. This is only partly conclusive because of the impediment of fluvial sand over part of the claims. However, followup gravity surveys failed to indicate any heavy density areas with the exception of one broad gravity feature at the southeast end of the property. This feature is probably caused by a combination of thin overburden and a change from phyllite to sheared volcanics.

VAL CLAIMS

Work on this claim block did not locate any conductors and their absence in our view, precluded any further exploration. This premise is based on our prior experience in the Anvil Range where we have not found substantial lead/zinc minerals remote from highly conductive graphitic phyllites.

W.M. Sirola

WMS:lg
Encl.

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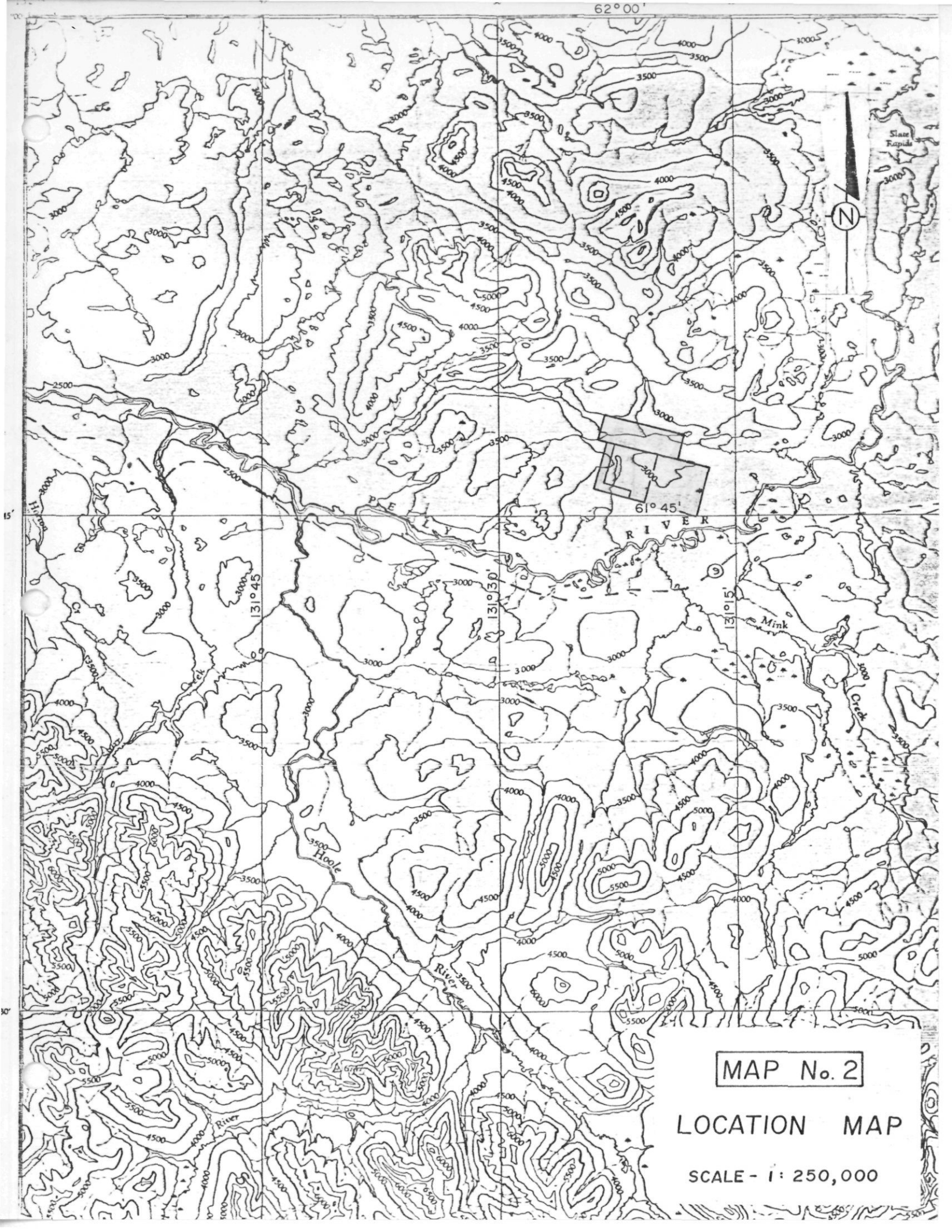
LIST OF MAPS

MAP No. 1

FRONTISPIECE MAP

SCALE – 1: 2,500,000 or 1" = 40 miles



MAP No. 2

LOCATION MAP

SCALE - 1 : 250,000


MAP No. 3
CLAIMS MAP
SCALE-1"= ½mile
131° 20'
61° 45'
NO GAP
GOOD
BAD
VALLEY
BLACK
VALLEY
EAGLE
FRED
FRED
N

LOCATION, ACCESS and HISTORY

The Black, Val and Vam mineral claims, are located approximately 95 Kilometres east of Ross River, Yukon, and 8 Kilometres north of the Robert Campbell Highway, (Highway 9), and north of the Pelly River. Specifically latitude 65^{o} 47', and longitude 131^{o} 20' on map 105 G 14. Access is by helicopter from Ross River.

Kerr Addison Mines Ltd. had conducted regional exploration in the claim area in the middle 1960's, and had staked claims on the present Black Claim location. These claims had been allowed to lapse after analysis of ground EM, geochemistry, magnetic and gravity data had not then indicated a drillable target. Most important was the lack of a gravity anomaly.

Subsequent work by Spartan Exploration, Marge Exploration, and Al Carlos and Glen Harris, (which work was mostly diamond drilling) indicated a zone of bleached buff coloured sericite phyllite at depth in the Marge DDH on SEC line 15 SE, @ a depth of 87 m.

With reviving interest in the general area, Kerr Addison Mines Ltd. reassessed the ground, and optioned the Black claims from Al Carlos and Glen Harris of White Horse, Yukon. Eighty-three additional claims (VAL and VAM) were staked around the Black claims and were covered by the terms of the Black claims agreement.

CLAIMS

Twenty-seven Black claims are included under the original agreement with forty-five Val claims and thirty-eight Vam claims subsequently staked. The following are the pertinent dates at November 1st, 1978, before any assessment work has been filed.

Claim Name & Number	No. of Claims	Recording Date	Expiry Date
Black 1 - 16	16	Nov. 24/76	Nov. 24/82
17 - 20	4	March 25/77	March 25/83
22,24,26,30,32,34,36	7	March 25/77	March 25/83
Val 1 - 45	45	May 29/78	May 29/79
Vam 1 - 38	38	May 26/78	May 26/79
	110 Claims		

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The Black claims are owned by A. Carlos, 13 Aspen Drive, Whitehorse, and G. Harris, 707 Black Street, Whitehorse, Yukon. The Val and Vam claims are owned by Kerr Addison Mines Ltd., Vancouver, B.C.

Due to a claim overlap on the Val and Vam claims, assessment work should not be filed on approximately five Vam claims (#20, 22, 24, 26 and 28).

GEOLOGY

One day was spent examining the area of the Vam claims at the location of a gravity anomaly in an attempt to explain the feature. While no outcrop was located in the anomalous area, a chlorite-carbonate altered diorite? sill or dike was located 30 m north of 1337 BC on line 1440 E. This outcrop lies 350 m south of the "centre" ? of the gravity anomaly and possibly is the causative source.

Four rock types were identified on the Vam claims in the vicinity of the 1337 BL from 1440 E to 2600 E. They are @ (1) chlorite, sericite phyllite, (2) sheared basalt, (3) sheared altered diorite, (4) silica carbonate rock. In addition, an exposure of rock-type (1) was located in a creek @ 2400 N on line 480 W.

ROCK TYPE (1)

Grey-green chlorite sericite phyllite, fine grained, well foliated, flat lying, and non-contorted in the vicinity of 1337 N BL. Little to no quartz is visible, but very finely disseminated blebs and minute streaks of pyrite occur at random, comprising less than 0.5% of the rock. This rock is very similar to the grey-green phyllite that occurs in o/c in the vicinity of the Carlos Harris "float" showing. The exposure in the creek on line 480 W @ 2400 N was described as a gently undulating bed of sericite phyllite with interbedded graphite approximately one metre thick. The total thickness of the graphite is unknown, but because the JEM survey did not indicate a conductor extending to this area, it is surmised that it cannot have a great thickness. Rock unit (1) is assumed to be Tempelman-Kluit's PP K3 unit. Analysis of a rusty specimen yielded Cu 5 ppm, Pb 16 ppm, Zn 87 ppm, Ag 1.3 ppm.

ROCK TYPE (2)

A possible sheared basalt? It is a fine to medium grained greenish

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black rock that has undergone extensive chlorite alteration. The rock is sheared with a mildly contorted foliation, and contains < 1% disseminated pyrite. Carbonate alteration is present, and possible epidote alteration. With the limited exposure, this unit is difficult to place, but could be Tempelman Kluit's CPav unit. It could however, be the same volcanic unit as that cut in the DDH's on the Black claims to the south. Both exhibit varying magnetic response, and are grossly similar megascopically. If they are the same units, they would occur interbedded within the chlorite sericite phyllite.

ROCK TYPE (3)

A possible sheared chlorite carbonate altered diorite. It is medium grained and has many similarities to Type 2 above except that it is lighter coloured and coarser grained. It may also be the CPav unit. This same rock type occurs approximately 4 kilometres to the east at the location of the Carlos-Harris "outcrop" showing. The only location of this type (3) rock is on line 1440 E @ 1400 N. Pyrite occurs < 1% and very occasional blebs of chalcopyrite are present. Analyses yielded Cu 100 ppm, Pb 21 ppm, Zn 110 ppm, Ag 1.8 ppm.

ROCK TYPE (4)

Medium-coarse grained yellow to white rusty silica carbonate rock. This rock is typical of those found in and near fault zones and is a recrystallized mass of silica, carbonate, and minor sericite.

GEOCHEMISTRY

Eighty-two soil samples and three rock samples were analysed for Cu, Pb, Zn and Ag over the Vam claims JEM anomalous area. All values encountered fall within background ranges for Cu, Pb, Zn and Ag. Soil sample quality in the area of and south of the east-west creek was poor, consisting of river sand and gravel. A 'B' horizon has developed but occurs in gravels and sands that are completely unrelated to local geology.

Copper values in soils range from 9 - 105 ppm with anomalous values considered to be > 150 ppm, Pb range from 9 - 24 ppm with anomalous values

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> 35 ppm, Zn range from 57 - 280 ppm with anomalous values > 300 ppm.

Good representative soil samples were collected over probable graphitic conductors in an area of 3 - 5 metres of overburden on lines 0, 240 W and 360 W, north of the main E-W creek. Normal background values for Cu, Pb, and Zn were obtained over the probable near surface conductor.

JEM SURVEY

61.25 line kilometres of JEM survey were conducted on Val claims July 29th - August 6th, and Vam claims August 7th - August 16th by Pat Lewis and Trevor Jones.

The Val claims were essentially devoid of anomalous readings while the Vam claims contain a large area of strongly anomalous responses. Readings of up to -29^{o} & -36^{o} on low and high frequencies occur on Vam 12 and Vam 14, while lesser but anomalous readings (up to -18^{o}, -22^{o}) occur on the other ten most north easterly Vam claims.

The JEM response in the Vam anomalous area is similar to that detected over graphitic conductors, and/or sulphide conductors. In view of the negative gravity response and the indication of graphite at the west tip of the JEM anomaly, a graphite source is indicated.

GROUND MAGNETIC SURVEY

A brief one day survey of 9.5 line kilometres was conducted over a selected area of the Vam claim to cover the general area of a gravity anomaly, and a portion of the adjacent JEM anomalies.

The survey was conducted with a Geo Metrics "Uni Mag", which reads the total field to ten gammes sensitivity, with a digital readout.

The majority of the area surveyed exhibits a "flat" response with only 20-30 ɣ relief over the target anomalies. A disruption near the 1337 N BL @ 1920 - 2400 E is probably due to flat lying sheared basalts occurring as small remnants near the surface. Several exposures of the "sheared basalts" were located in the general area of the anomalous readings.

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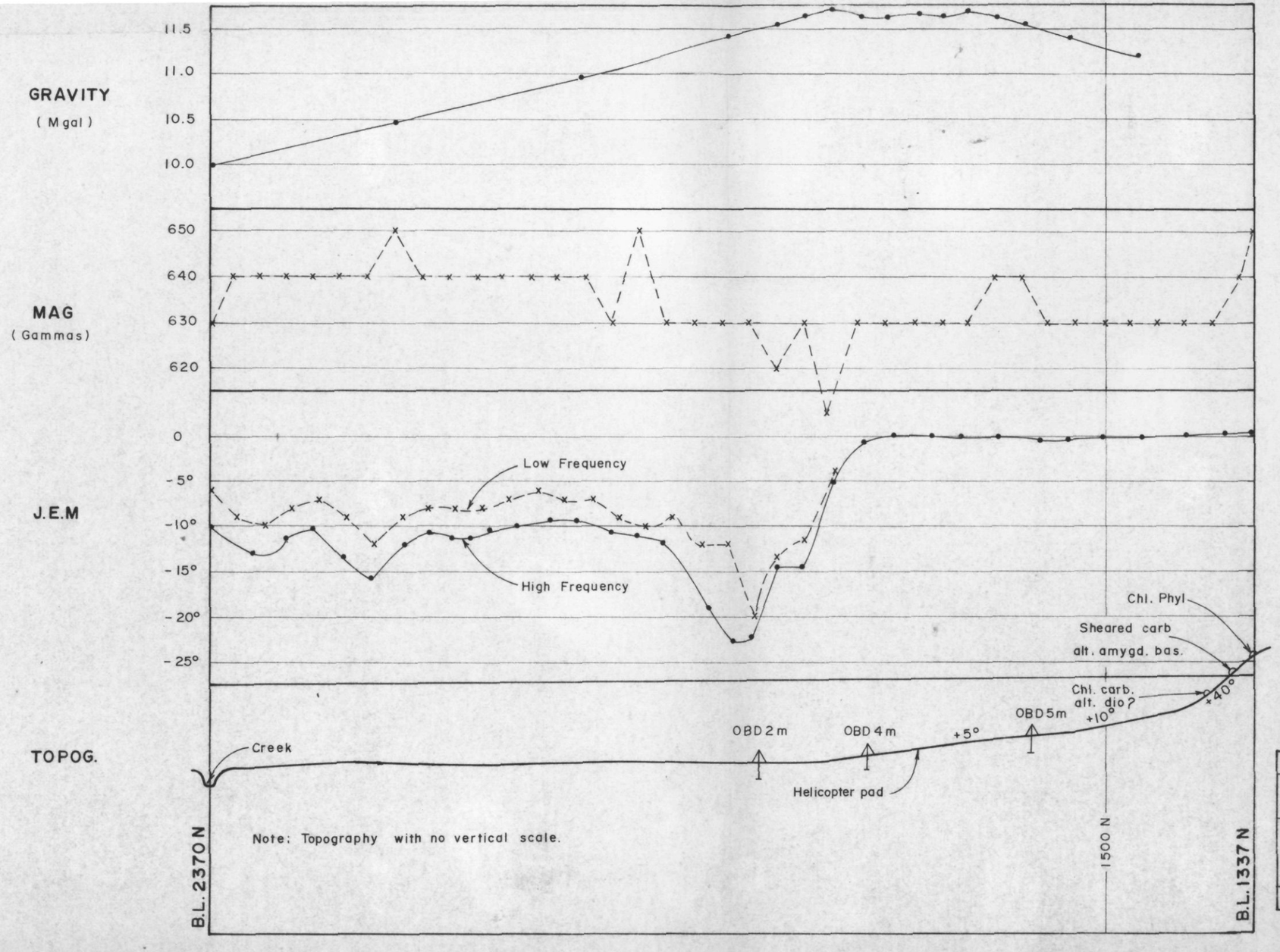

MAP No. 4

KERR ADDISON MINES LTD

VAM CLAIMS

COMPOSITE X-SECTION. L 1440E

(LOOKING EAST)

HORIZONTAL SCALE - 1 : 5000 m Drawn by : J.W.Murton

GRAVITY SURVEY

7.35 line kilometres of gravity survey were run by C. Ager and Associates during the period September 23rd - 25th, 1978, the report of which is attached.

Picket lines had been previously cut and chained over JEM anomalies on the Vam claims.

A regional gradient is apparent, increasing to the south at approximately 1 mgal every 300 metres. A broad gently peaking anomaly is apparent at 1600 N on line 1440 E. A semi closure has been sketched to the west of line 1400 E, and insufficient data limits interpretation to the east. No other features of interest are present within the surveyed area, and it is further suggested that the "anomaly" on line 1440 E is due to an underlying intrusive sill or mass, and/or a decreasing depth of overburden to the south from an unknown amount in the creek bottom to O/C @ 1400 N on line 1440 E.

OBD-OVERBURDEN DRILLING

An attempt was made on October 15th, 1978, to test to bedrock on the Vam claims with overburden drilling equipment that was in use on the Pelly Claims. This equipment was under contract from Bema Industries in Vancouver, who supplied two men and equipment.

Three holes were attempted in the vicinity of the gravity anomaly on line 1440 E @ 1470 N, 1650 N, and 1760 N. The hole @ 1470 N reached 5 metres depth, 1650 N reach 4 metres, and 1760 N reached 2 metres. No hole reached bedrock and analysis of the sampled material indicated no anomalous results.

DIAMOND DRILLING - BLACK CLAIMS

The Black Claim Group was optioned in July 1978 by Kerr Addison Mines Ltd. Mr. Alex Po drew attention to the bleached sericite phyllite intersected at the bottom of a hole drilled by Marge Exploration during 1977. The Marge drill hole was drilled @ -60^{o} SW on section line 15 SE to test a ground magnetic anomaly located on the northeast shore of "Tom" Lake. This hole was stopped at a depth of 85.6' metres (281') when the company ran out of funds, and did not intersect the magnetic source.

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After reviewing the work done by Kerr Addison Mines in 1966, a proposed program of drilling two holes - one on the magnetic anomaly mentioned above and one on a ground JEM anomaly on the southwest shore of "Tom" Lake was planned.

During July 15th - August 2nd, 1978, two diamond drill holes were completed on the Black #1 and Black #2 Mineral Claims.

D.D. hole #KA-78-1, located at 14+80 SE, 17+25 SW on the 1966 Gravity Grid east of "Tom" Lake on Black #2 claim, was drilled on a bearing of S55^{o} W, dip -83^{o}, to a depth of 160 metres.

D.D. hole #KA-78-2, located at 26+00 SW, 8+50 SE, west of "Tom" Lake on Black #1 claim was drilled on a bearing of N55^{o} E, dip of -60^{o}, to a depth of 143.8 metres.

Fred Chow supervised the diamond drilling program and the core was logged by Fred Chow and Pat Lewis.

Magnetite ranging from .5% - 5% disseminated in metamorphosed, sheared volcanics within the lower section of both drill holes explains the magnetic anomaly being tested.

Graphitic phyllite, intersected in D.D. H #KA-78-2 from 7.5 metres -14.9 metres explained the electromagnetic anomaly on the SW shore of "Tom" Lake.

Bleached sericite phyllite was in all cases caused by or associated with fault zones.

No lead/zinc or other mineralization was noted in the drill core, and no samples were analysed.

CONCLUSIONS

In view of the results obtained on the Black Claims Diamond Drilling Program, no further work is warranted on this claim group.

Results on the Vam claims do not suggest a drillable target, although strong E.M. conductors, of probable graphite origin, remain untested. Lack of gravity, geochemistry, and magnetics however, downgrade the anomalies.

It is recommended that the option agreement with Carlos-Harris on the Black-Val-Vam claims be terminated, and that assessment work be applied as required under the terms of the agreement.

J.W. Murton, P. Eng.

EXPENDITURES

Expenditures on Black-Val-Vam-Claims during the period July 9th - September 30th, 1978.

Diamond Drilling two holes	$ 25,348.50
Gravity Survey - C. Ager & Associates	4,477.02
O.B.D. Charges	600.00
Air Transportation - Diamond Drilling	4,659.86
- Other	7,838.29
Ground Transportation	584.15
Line cutting charges	1,462.50
Camp Costs	2,693.09
Supplies & Equipment Costs	1,718.15
Shipping & Telephone	1,375.50
Assaying	242.40
Equipment Rentals	1,142.46
	$ 52,141.92

Personal

P. Lewis - July 29 - Aug.16/78 (19 days) @ $50.00 a day	950.00
T. Jones - July 29 - Aug.16/78 (19 days) @ $50.00 a day	950.00
F. Chow - July 9 - 30, Aug. 13 - 22 (32 days @ $85.00 a day	2,720.00
O. Aareskjold - July 10 - Aug 10 (30 days @ $25.00 a day	750.00
A. Obrien Bell - July 10 - Aug. 10 (30 days @ $25.00 a day	750.00
C. Frame - July 18 -July 30 (23 days @ $35.00 a day	805.00
W. Murton, Supervision - 10 days @ $100.00 a day	1,000.00
	$ 7,925.00

TOTAL $ 60,066.92

J.W. Murton, P. Eng.

Appendix I

DIAMOND DRILL RECORD

LOGGED BY FRED CHOW

D.D.H. Nº KA-78-1 PAGE 1 of 7

PROPERTY CARLOS-HARRIS OPTION, BLACK CLAIM GROUP

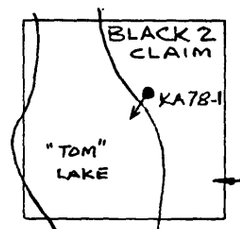
LATITUDE 17+25 ft. SW 1966 Gravity grid STARTED JULY 15, 1978

DEPARTURE 14+80 ft. SE COMPLETED JULY 24, 1978

ELEVATION 884.4m 2902 ft. PROPOSED DEPTH 122m

ULTIMATE DEPTH 160m (525')

HOLE SURVEY:		
DEPTH	BEARING	DIP
COLLAR	S 55° W	-83°



CLAIM Nº BLACK 2 M.C.

DIRECTION AND DISTANCE FROM N.E. CLAIM POST

PURPOSE: To check ground magnetic anomaly

Interval From	Interval To	DESCRIPTION	Recovery	Sample Nº	Interval From	Interval To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Pb	Assay x Zn	Assay x Ag
0	9.8m	OVERBURDEN													
		Boulders fine-grained volcanic rock and porphyritic volcanic	0.2												
		rock.													
			4.8/15.1		9.8	24.99									
9.8	46.6	QUARTZ-SERICITE PHYLLITE. Medium gray.	2.3/2.59			27.58									
		Highly sericitic phyllite, very fissile, occasional 0.3-10mm	1.3/4.4			32.0									
			11.6/11.6			43.6									
		layers of quartz and/or quartz-calcite. Quartz band and	1.2/3.0			46.6									
		quartzy-phyllite from 9.8-10.2m. CA: 80-85°, more often 85°													
		Odd bleb pyrite, ankerite (?) @ 34.1, 34.8, 37.0m, occasional													
		@ 38.3-43m. Minor F structures @ 33.3,33.9,36.8-43.8m													
		FAULT @ 41m, 15° to core, 5mm with gouge and chips.													
46.6	54.5	QUARTZ-SERICITE-GRAPHITE PHYLLITE. Dark gray to black.													
		Sericitic phyllite as above but contain increasing amounts	3.4/4.9		46.6	51.5									
		of graphite with depth. Up to 4% pyrite within the occasion-	0.35/3.0			54.5									
		al quartzose bands.													
		CA: 80-85°.													

Interval From	Interval To	DESCRIPTION	Recovery	Sample NO	Interval From	Interval To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Pb	Assay x Zn	Assay x Ag
54.5	57.6	QUARTZ-GRAPHITE PHYLLITE. Black.													
		Fissile bands and siliceous sections. Slightly to moderately	1.7/3.1		54.5	57.6									
		sheared with quartz + ankerite (?) filling fractures; also													
		quartz-ankerite porphyry within siliceous graphite. Scat-													
		tered blebs, blobs or bands of pyrite. Powdered graphite do													
		not show magnetic minerals.													
		CA: 80°. Shearing 35° (?).													
57.6	62.6	QUARTZ-SERICITE-CHLORITE PHYLLITE. Buff alteration.													
		Totally altered, buff coloured with increasing green chlorite	5.0/5.0		57.6	62.6									
		with depth, chlorite maximum 25%. Quartz 30-40%, 2% ankerite													
		minor clots pyrite. F_2 bands highly contorted @ top and													
		becomes wavy. F_2 fair to good @ 61.4-62.5m, 90° to 45° to F_1													
		Contact not noted. Rock soft but compact.													
		CA: 50° @ 57.7m, 70° @ 58.3 (F_1 40° to F_2).													
62.6	64.7	QUARTZ-SERICITE-CHLORITE PHYLLITE. Medium gray.													
		Sericitic but compact. 10-15% chlorite occurring as bands,	2.1/2.1		62.6	64.7									
		2% ankerite occurring as layer and lenses associated with													
		quartz bands, No sulphides noted. F_1 evident but not promi-													
		nent, distinctly displayed by some chlorite or quartz-anker-													
		rite layers. Probably shear @ upper contact.													

Interval From	Interval To	DESCRIPTION	Recovery	Sample NO	Interval From	Interval To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Pb	Assay x Zn	Assay x Ag
		CA: F_2 @ 80°, F_1 @ 30-45°-90° to F_2.													
64.7	66.0	QUARTZ-SERICITE-CHLORITE PHYLLITE. 30% buff alteration													
		Rock and alteration similar to lower section of 57.6-62.6m.	1.3/1.3		64.7	66.0									
		15-25% chlorite in layers, 3% ankerite - generally associated													
		with quartz layers or lenses.													
		CA: F_2 70° & F_1 30-70° to F_2 @ 64.8m to 66m, F_1 nose @ 65.3.													
		F_2 distinct following chlorite layers, discernable on													
		F_1 quartz-ankerite layers. Upper contact possibly @ 40°,													
		lower contact @ 45°. Note numerous tight slips @ lower													
		0.2m and lower contact probably a slip contact.													
66.0	67.5	QUARTZ-SERICITE-CHLORITE PHYLLITE. Medium gray.													
		Similar to section 62.6-64.7m but displaying numerous tension	1.5/1.5		66.0	67.5									
		cracks - hairline to 1mm wide, near vertical to F_2.													
		CA: F_2 60-70°, F_1 45-90° to F_2.													
67.5	71.6	QUARTZ-SERICITE-CHLORITE PHYLLITE. 5-80° buff altera-													
		tion. Similar to 64.7-66m section. No sulphides noted.	4.1/4.1		67.5	71.6									
		67.5-68.9: Intermediate alteration, 5% buff alteration, 50%													
		light gray sericite, 2-3% ankerite, 25% chlorite													
		15% quartz.													

Interval From	Interval To	DESCRIPTION	Recovery	Sample NO	Interval From	Interval To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Pb	Assay x Zn	Assay x Ag
		68.9-70.2m: 80% buff alteration, 15% chlorite.													
		70.2-70.5m: Medium gray sericite-chlorite phyllite as 66-67.5													
		70.5-71.6m: As 68.9-70.2m.													
		CA: F_2 65-75°, F_1 prominent sub-vertical to F_2. Tight slips @ 30-45° to core.													
71.6	75.1	QUARTZ-SERICITE-CHLORITE PHYLLITE. Medium gray.													
		Similar to 66-67.5m section. Buff sericite alteration @	3.2/3.5		71.6	75.1									
		73.9-74m and @ 74.7-75.1m.													
		CA: F_2 60° @ 71.8m, 50° @ 72.9m, 60° @ 73.5-75m. F_2 kinky @ 74m. F_1 barely visible, nearly parallel to sub-vert. to F_2.													
75.1	87.0	QUARTZ-SERICITE-CHLORITE PHYLLITE. Pale green to Pale gray-ish green. 40/40 Sericite-Chlorite, 1-2% ankerite, odd crystal or lense of pyrite. Rock soft, moderately fissile.	2.8/3.2		75.1	78.3									
			1/1.6			79.9									
		Blobs of chalco-pyrite and pyrite in quartz @ 85m. Shear @	1.5/1.6			81.5									
		78.8-80m @ 20° to core. Also @ 82.1 @ 35° to core. Possible	5.5/6.9			88.4									
		shearing @ 87-88m.													
		CA: F_2 55° @ 75.3m, 40° @ 76 (probably shearing). Kinky F_2 @ 76.5-78m with many tight slips 40° to core. F_2 75° @													
		78.5m, F_2 70° @ 81m, 75-85° @ 81.8, 60° @ 82.4-84.5m,													

Interval From	Interval To	DESCRIPTION	Recovery	Sample NO	Interval From	Interval To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Pb	Assay x Zn	Assay x Ag
		75° @ 85.2, 65-70° @ 86.7.													
87.0	97.5	QUARTZ-SERICITE-CHLORITE PHYLLITE. Pale grayish-	1.1/1.5		88.4	89.9									
		green with buff alteration. Similar phyllite as section 75.1	0.9/2.5			92.4									
		-87m above but show slight alteration and buff colours in	0.5/0.8			93.2									
		parts. Rocks undergone stress, possibly shearing. Locally	4.1/4.3		93.2	97.5									
		a band of pyrite, ankerite still common.													
		CA: F 50° @ 88.2m, 65° @ 88.7, 80° @ 89.5, 70° @ 91, 55° @													
		2 93-94.8, 60° @ 95-97, 65° @ 97.2.													
97.5	105.2	QUARTZ-CHLORITE-BIOTITE PHYLLITE. Dull grayish-green.													
		Massive with faint banding in top section. 100.8-105.2m	4.2/4.9		97.5	102.4									
		more distinct banding, section undergone shear stress. 103.8	0.6/1.2			103.6									
		-104m moderately sheared. 101-103.6m 20% to 5% buff sericite	1.4/1.6			105.2									
		bands.													
		CA: (Banding 90°?) lineation 60° from 97.5-99-100.7m. F													
		2 @ 50° @ 101.7-102.4m, 70° @ 104.2m. Lower contact @ 60°													
105.2	129.4	SHEARED VOLCANICS AND MASSIVE VOLCANICS. Dark gray to green-	0.6/0.9		105.2	106.1									
		ish black. Massive , also banded, soft. Chlorite 75%, talc	0.6/0.6			106.7									
		(?) 20% with 0.5% disseminated magnetite and odd bronzy-brown	0.5/1.9			108.6									
		biotite. Banded quartz and talc-calc. quartz, also as fil-	0.8/1.9		108.6	110.5									

LOGGED BY _____ D.D.H. NO KA 78-1 PAGE 6 of 7

Interval From	Interval To	DESCRIPTION	Recovery	Sample NO	Interval From	Interval To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Pb	Assay x Zn	Assay x Ag
		ling in (irregular) fractures. 114-117m rock well fractured													
		but healed by carbonate with minor calcite, and talc (?).	1.6/1.7		110.5	112.2									
		118.4-118.5m: FAULT with gouge and chips. 105.2-106.0m: Moderate shearing; 107-108.6, intense shearing	0.7/0.9			113.1									
		108.6-113.1: Broken core, soft; shearing + fracturing. 120.0m: Probable shear.	14/14.3			127.4									
		CA: F 50° @ 106-115m, 70° @ 117.7, 60° @ 118.6, 50° @ 118.9	2.0/2.0			129.4									
		F_2 -120, 90° @ 122.6, 45° @ 122.9, 60° @ 123.2, 55° @ 126.2													
		-129m. F_1 @ 70-80° to F_2 @ 121.7, F_1 nose @ 125.8													
129.4	130.2	SHEAR ZONE. Volcanic rock intensely sheared, fractured and	0.8/0.8		129.4	130.2									
		crumpled.													
130.2	142.5	SHEARED VOLCANICS. Shear and Stress Zone.													
		Rock as 105.2-129.4m. Shear zone above plus many narrow	4.7/6.4		130.2	136.6									
		shears within this section have highly fractured the volcanic	5.9/5.9			142.5									
		and crumpled the rocks in parts. No mineralogical change													
		noted.													
142.5	153.0	MASSIVE VOLCANICS (ALTERED ANDESITE?) Dark gray-black.													
		Rock massive, soft but gritty. Narrows shears between 147.7	4.3/4.3		142.5	146.8									
		-153m. Fractures 0-60° to core. No presence of quartz, no	3.2/3.5			150.3									
		magnetite. Composition mainly chlorite with quartz.	2.7/2.7			153.0									

LOGGED BY _____ D.D.H. NO KA 78-1 PAGE 7 of 7

Interval From	Interval To	DESCRIPTION	Recovery	Sample NO	Interval From	Interval To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Pb	Assay x Zn	Assay x Ag
153.0	160.0	MASSIVE VOLCANICS (ALTERED BASALT OR ANDESITE?). Dark gray-													
		black. As lower part of previous section except this section	1.3/2.1		153.0	155.1									
		shows some layering. Much shearing-narrow. Mainly chlorite	1.6/1.9			157.0									
		with talc (?).													
		158.5-158.8m: Dolomite (?) band.	1.4/1.5			158.5									
		CA: 50°.	1.3/1.5			160.0									
	160.0	END OF HOLE.													
		REMARKS:													
		Magnetic anomaly explained by magnetitefound in core.													

DIAMOND DRILL RECORD

LOGGED BY FRED CHOW & P. LEWIS D.D.H. Nº KA 78-2 PAGE 1 of 7

PROPERTY CARLOS-HARRIS OPTION - BLACK CLAIM BLOCK

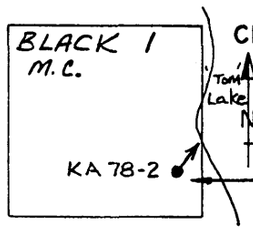
LATITUDE 26 + 00 SW (1966) gravity STARTED JULY 26, 1978

DEPARTURE 8 + 50 SE grid COMPLETED AUGUST 2, 1978

ELEVATION 884.5m (2902 ft.) PROPOSED DEPTH 183m - 600ft.

ULTIMATE DEPTH 143.8 - 472ft.

HOLE SURVEY:		
DEPTH	BEARING	DIP
COLLAR	N 55° E	-60°



DIRECTION AND DISTANCE FROM N.E. CLAIM POST

CLAIM Nº BLACK 1 M.C.

PURPOSE: To check E. M. anomaly

Interval From	Interval To	DESCRIPTION	Recovery	Sample Nº	Interval From	Interval To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Pb	Assay x Zn	Assay x Ag
0	6.5	OVERBURDEN.													
		Granitic and andestic rocks.	0.1/6.5		0	6.5									
6.5	7.5	QUARTZ-SERICITE-CALCITE PHYLLITE. Light gray with light rust weathering.													
		60% quartz, 35% sericite, 5% calcite. Siliceous and hard.	0.3/1.0		6.5	7.5									
		Minor pyrite blebs.													
		CA: F_2 40°.													
7.5	10.4	QUARTZ-SERICITE-GRAPHITE-CALCITE PHYLLITE. Medium gray.													
		45% quartz, 40% sericite, 10% graphite, 5% calcite. Minor	0.5/2.9		7.5	10.4							ø		
		rusty stains. Minor pyrite as small blebs and lenses. Rock													
		fairly hard but appears to be fractured. Also moderately													
		fissile.													
		CA: F_2 = 45-50°.													
10.4	14.9	QUARTZ-GRAPHITE PHYLLITE. White and black.													
		Very poor recovery, rock also tumbled, difficult to assess.	0.12/4.5		10.4	14.9									

Interval From	Interval To	DESCRIPTION	Recovery	Sample Nº	Interval From	Interval To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Pb	Assay x Zn	Assay x Ag
		Appear to be quartzy banded graphitic phyllite, also appear													
		to be fractured and healed by quartz. Pyrite blebs and													
		smears. No other sulphides noted.													
		CA: ?													
14.9	21.0	QUARTZ-SERICITE-GRAPHITE PHYLLITE. Medium gray.													
		60% sericite, 35% quartz, 3-5% graphite, 1-2% calcite. Soft	1.8/6.1		14.9	21.0									
		and fissile. 16.4-17.1m: Possible shearing or tight F_2 fold													
		nose; note shattering and F_2 parallel to core.													
		CA: F_2 50° @ 15m, 46° @ 15.5, 0° @ 16.5-17.0, 50° @ 17.2,													
		40° @ 18m, 53° 19.2, 42° @ 19.9, 60° @ 20m.													
21.0	25.4	QUARTZ-SERICITE-CHLORITE PHYLLITE. Pale greenish-gray.													
		90% sericite, 4-7% quartz, 3-4% chlorite. Soft, soapy,	1/4.4		21.0	25.4									
		very fissile. Both upper and lower contact more quartzy.													
		CA: F_2 45° @ 23, 0-20° @ 23.2-24.5m - undulating or folded,													
		(too broken too see).													
25.4	36.4?	QUARTZ-SERICITE-GRAPHITE PHYLLITE.													
		Similar to 14.9-21m. Shearing or F_2 nose @ 25.5m.	0.4/2.0		25.4	27.4									
		CA: 50° @ 25.4, 10° @ 25.6 (?), 40° @ 26.4, 60° @ 27.4, 55°	2.3/4.1			31.5									
		@ 28.2-31.5m, 60° @ 32.5-39.	0.15/0.8 0.95/1.0			32.3 33.3									

LOGGED BY _____ D.D.H. NO KA 78-2 PAGE 3 of 7

Interval From	Interval To	DESCRIPTION	Recovery	Sample NO	Interval From	Interval To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Pb	Assay x Zn	Assay x Ag
			0.55/3.1			36.4									
36.4?	36.8?	FAULT.													
		In Sericite-graphite phyllite. 0.05m gouge recovered.	0.05/0.4		36.4	36.8									
36.8?	57.0	QUARTZ-SERICITE-CHLORITE PHYLLITE. Pale greenish gray-tan,													
		mild to moderate bleaching. As 21-25.4m section but showing	0.6/2.7		36.8	39.5									
		tan colouration - moderate alteration or bleaching of ser.	0.25/0.6			40.1									
		Soft but moderately firm and massive. Occasional pyrite	0.07/1.2			41.3									
		blebs or quartz-pyrite bands. Often wavey F_2.	5.8/7.0			48.3									
		CA: 45° @ 36.9m, 65° @ 41.3, 55° @ 42, 40° @ 42.4, 55° @ 43	3.4/3.4			51.7									
		.3-49.4, 65° @ 49.8-51.6, 55° @ 51.7, 50° @ 53.	0.8/1.3			53.0									
			0.8/3.7?			56.7?									
			0.3/0.3			57.0									
57.0	62.3	QUARTZ-SERICITE-CHLORITE PHYLLITE. Bleached buff. Similar													
		to section above but gradually totally bleached to buff	2.7/2.7		57.0	59.7									
		colour @ 58.7-62.3m. Minor pyrite occuring as blebs in F_2 &	0.6/2.6			62.3									
		F_1, distinguished by chlorite. Faint hint of F_1 in quartzose													
		bands but difficult to ascertain.													
		CA: F_2 50-55° @ 57-58.4m, 60° @ 58.5-61m.													

Interval From	Interval To	DESCRIPTION	Recovery	Sample NO	Interval From	Interval To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Pb	Assay x Zn	Assay x Ag
62.3	64.2	QUARTZ-SERICITE-CHLORITE PHYLLITE. 50% buff alteration.													
		As 36.8-57m. CA: 55°.	0.7/1.9		62.3	64.2									
64.2	76.3	QUARTZ-SERICITE-GRAPHITE PHYLLITE.													
		60% sericite, 30% quartz, 5 to 10% graphite. Well banded,	1.2/3.9		64.2	68.1									
		soft and fissile. Odd blebs pyrite. A few shears 0-35° to	1.9/3.4			71.5									
		core. 68.12 - 68.19m: - FAULT.	2.2/2.9			74.4									
			1.2/1.9			76.3									
		CA: 55° to 71.5m, 60° to 73m, 50° @ 74, 60° @ 74.6.													
76.3	83.5	QUARTZ-SERICITE-GRAPHITE-CALCITE PHYLLITE. Grayish green to													
		black. Well banded. Minor pyrite along F_2, and sometimes	1.5/1.7		76.3	78.0									
		associated with quartz. Core soft, fissile in places.	3.0/3.0			81.0									
		70% sericite, 20% quartz, 4% graphite, 1% calcite, minor	2.5/2.5			83.5									
		chlorite. FAULT: 76.9-77.3m													
		F 50° to CA @ 76m, F 65° to CA @ 81.4m.													
		F_2 F_2 structures developed at 82.8m distinguished by quartz-													
		F_1 calcite filling 70° to F_2 ?													
83.5	92.7	QUARTZ-SERICITE-CHLORITE PHYLLITE. Grayish-green in colour.	2.1/2.1		83.5	85.6									
		Banding not so pronounced as from 76.3 - 83.5m. 75% sericite	.5/1.6			87.2									
		20% quartz, 4% chlorite. Minor calcite. Notable increase													

Interval From	Interval To	DESCRIPTION	Recovery	Sample No	Interval From	Interval To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Pb	Assay x Zn	Assay x Ag
		in amount of pyrite mineralization occuring as blebs and len-													
		ses along F_2. Two major quartz veins occuring in section:													
		one at 83.8m, 2.5cm. in width, 40° to CA; one at 92.1m 3cm.													
		wide? CA: Core only moderately fissile.													
		86.8-87.0: FAULT.													
		CA: F_2 50° @ 87.6m, 50° @ 92.3m													
92.7	94.5	SERICITE-CHLORITE -PHYLLITE. Olive green. Fine banded.	1.0/1.8		92.7	94.5									
		85% sericite, 14% chlorite.													
		CA: F_2 65° @ 93.0m. FAULT: 94.2-94.4.													
94.5	94.9	ZONE OF SILIFICATION. Contains 50% quartz, 30% calcite and	.4/.4		94.5	94.9									
		20% chlorite.													
94.9	101.0	QUARTZ-SERICITE-CHLORITE PHYLLITE. Greenish-gray. Contains	1.5/2.0		94.9	96.9									
		10% quartz, 75% sericite, 10% chlorite, minor calcite, minor	3.0/4.1			101.0									
		pyrite occuring as blebs and lenses along F_2.													
		CA: F_2 55° @ 100m.													
101.0	101.2	BRECCIA: Contains sericite-chlorite fragments up to 2.5cm.													
		in width. Evidence of a fault at 101.2m													

LOGGED BY _____ D.D.H. NO KA 78-2 PAGE 6 of 7

Interval From	Interval To	DESCRIPTION	Recovery	Sample NO	Interval From	Interval To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Pb	Assay x Zn	Assay x Ag
101.2	105.0	QUARTZ-SERICITE CHLORITE PHYLLITE.	.8/1.8		101.2	103.0									
		Same as 94.9-101.0. FAULT: 102.6-103.0	2.0/2.0			105.0									
		FAULT: 103.3-103.6. CA: F 40-45° @ 101.4m													
		2													
105.0	105.9	SERICITE SCHIST. Light green. Light pin point size mineral	.9/.9		105.0	105.9									
		probably corderite? dispersed through that section of core.													
		Broken core. Contains 95% sericite, 5% unknown mineral.													
105.9	114.5	QUARTZ-SERICITE-CHLORITE PHYLLITE. Grayish-green. Minor	2.4/2.4		105.9	108.3									
		buff coloured alteration at the top of section 105.9-106.4 .	1.6/2.0			110.3									
		Core moderately fissile. 15% quartz, 60%? 20% chlorite.	1.2/2.2			112.5									
		Section becoming more chloritic towards the base. Again	1.6/2.0		112.5	114.5									
		minor pyrite occuring as blebs and lenses. One or two blebs													
		of chalcopyrite @ 113.0m. Small shear at top of section.													
		106.4-107.0: Core fractured and crumpled.													
		111.0-111.4: Intensely sheared, fractured and crumpled.													
		CA: F 75° @ 107.5m, 65° @ 110.7, 70° @ 114.2m.													
		2													
114.5	117.7	META ANDESITE (or tuffaceous?). Medium - dark green.	3.0/3.2		114.5	117.7									
		Massive, containing 65% chlorite, 20% quartz, 5% dolomite?													
		Dolomite is dispersed through-out core in a spotty type													
		pattern and also occupies space in fracture along with quartz													

LOGGED BY _____ D.D.H. Nº KA 78-2 PAGE 7 of 7

Interval From	Interval To	DESCRIPTION	Recovery	Sample Nº	Interval From	Interval To	Sample Length	Assay Pb	Assay Zn	Assay Ag	Assay Au	Assay Cu	Assay x Pb	Assay x Zn	Assay x Ag
		Fractures occupied by quartz and dolomite numerous but follow													
		no preferred orientation. 30°-65°													
		Scattered blebs of pyrite.													
117.7	139.4	MAGNETITE BEARING META ANDESITE.	.8/1.5		117.7	119.2									
		Similar to section 114.5-117.7 but contains 5% magnetite	1.2/1.6			120.8									
		and minor pyrrhotite. Again core exhibits numerous quartz	8.2/9.5			130.3									
		dolomite filled fractures, but fractures also contain minor	2.6/3.1			133.4									
		sericite and epidote.	6.0/6.0			139.4									
		118.1-119.1: FAULT. Core broken and crumpled													
		Contact with lower phyllite unit 55° to C.A.													
139.4	139.8	CHLORITE-SERICITE PHYLLITE	.4/.4		139.4	139.8									
		Core extremely fissile. Contains 90% chlorite, 10% sericite.													
139.8	143.8	MAGNETITE BEARING META ANDESITE.	4.0/4.0		139.8	143.8									
		Same unit as 117.7-139.4m.													
	143.8	END OF HOLE.													
		REMARKS: Electromagnetic anomaly probably caused by near surface Graphitic Phyllite.													
		* ADDITIONAL REMARKS by W. Murton - Sections of "meta andesite" usually exhibit an unsheared, massive appearing core with up to 5% magnetite while the margins of the intersection are heavily sheared & serpentinized with partial to total destruction of magnetite.													

Appendix II

VANGEOCHEM LAB LTD.
1521 PEMBERTON AVE.,
NORTH VANCOUVER, B.C.,
CANADA V7P 2S3

TELEPHONE: 980-5211
AREA CODE: 604

• *Specialising in Trace Elements Analyse*

Certificate of Geochemical Analyses

–IN ACCOUNT WITH–

Kerr Addison Mines Ltd.

Attention:

Report No: 78 48 042 Page 4
Samples Arrived:
Report Completed:
For Project:
Analyst:

Sample Marking	Cu ppm	Pb ppm	Zn ppm	Ag ppm		
OBD 1440 E/1470 N (1)	27	17	63	0.9		
(2)	40	21	109	0.7		
(3)	56	26	114	0.9		
(4)	40	24	108	1.0		
OBD 1440 E/1470 N (5)	36	22	83	1.0		
OBD 1440 E/1650 N (1)	54	15	63	0.8		
(2)	41	26	113	1.1		
(3)	48	32	187	1.4		
OBD 1440 E/1650 N (4)	47	32	132	1.2		
OBD 1440 E/1760 N (1)	62	21	103	0.9		
OBD 1440 E/1760 N (2)	48	26	122	0.9		

↓ VAM

REMARKS:

Signed.

% Mo x 1.6683 = % MoS_2 1 Troy oz./ton = 34.28 ppm 1 ppm = 0.0001% nd = none detected ppm = p

All results are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

Certificate of Geochemical Analyses

—IN ACCOUNT WITH—
Kerr Addison Mines Ltd.

Report No: 78 48 025 Page 2 of

Samples Arrived:
Report Completed:
For Project:
Analyst:

Attention:

Sample Marking	Cu ppm	Pb ppm	Zn ppm			
L 1200 E 2190 N	9	10	93			
2370	48	15	110			
L 1200 E 2430 N	40	16	137			
L 1440 E 1337 N	32	18	81			
1530	47	16	106			
1710	48	17	123			
1710	35	14	108			C2
2180	30	12	118			
2370	25	11	77			
L 1440 E 2490 N	30	14	98			
L 1680 E 1440 N	63	21	122			
1620	23	14	102			
1800	32	16	127			
1980	46	15	118			
2130	52	23	148			
2190	60	13	88			A
2370	14	10	100			
2430	36	17	107			
2460	13	12	130			
2610	13	12	57			A3/F"B"
2790	20	8	10			A2/3
L 1680 E 2850 N	12	14	138			
L 2160 E 2430 N	29	15	102			
2580	30	16	92			
L 2160 E 2760 N	9	16	63			
L 2400 E 2460 N	42	17	92			
2670	25	15	73			
L 2400 E 2760 N	14, ppm	15, ppm	201, ppm	ppm		
8 V M C1 S	66	21	64	1.4		
02 S	60	20	90	1.1		
03 S	33	19	90	0.9		
07 S	42	17	97	0.7		
08 S_1	45	18	107	0.7		
08 S_2	31	16	106	0.7		
09 S	12	13	81	0.6		
10	44	16	107	0.7		
11	28	20	102	0.8		
12	37	11	81	0.7		
13	45	17	87	0.9		
14	32	16	96	0.7		
15 S_1	48	24	104	0.9		
15 S_2	52	24	158	1.3		
8 V M 16 S	38	20	93	1.0		
8 V M 4 R	5	16	87	1.3		
8 V M 6 R	100	21	110	1.8		
PELLY PM 3	76	8	64	0.3		
VAM 2400 E / 1400 N	5	13	41	1.0		

Certificate of Geochemical Analyses

IN ACCOUNT WITH—

Kerr Addison Mines Ltd.,
#703 - 1112 West Pender Street,
Vancouver, B. C. V6E 2S1

Attention:

Report No: 78 48 025 Page 1 of
Samples Arrived: Aug. 22, 1978
Report Completed: Aug. 25, 1978
For Project: Y-11C-7
Analyst:

~~Invoice # 2154~~ ~~Job # 78-198~~

Sample Marking	Cu ppm	Pb ppm	Zn ppm			
L 00 + 00 2400 N	37	15	102			
L 0 + 00 2510	86	16	120			
2670	49	18	87			
L 0 + 00 2850 N	11	11	107			
L 240 E 2190 N	42	14	110			
2190 N	35	14	92			F "B"
2290	38	15	105			
2580	39	12	50			
2640	34	21	155			
L 240 E 2820 N	42	15	92			
L 240 W 2400 N	34	13	102			
2400 N	30	12	98			"C"
2490	55	21	93			
2670	22	9	66			
2670	77	22	131			"C"
L 240 W 2850 N	10	15	92			
L 360 W 2400 N	40	20	136			
2430	12	14	260			
2610	37	15	100			
L 360 W 2790 N	30	11	78			
L 480 E 2370 N	42	19	117			
2670	49	16	190			
L 480 E 2850 N	15	11	82			
L 720 E 2490 N	39	19	91			
2670	69	17	168			
L 720 E 2850 N	56	26	280			
L 960 E 1260 N	45	15	107			
1380	34	16	98			
1530	40	14	99			
1740	37	14	88			
1950	12	9	68			
1950	26	11	102			C2
2130	10	12	98			
2130	15	10	113			C2
2310	49	11	103			
L 960 E 2460 N	52	16	125			
L1200 E 1337 N	105	11	75			
1530	61	16	135			
L1200 E 1860 N	35	11	93			

Signed:

% Mo x 1.6683 = % MoS_2 1 Troy oz/ton = 34.28 ppm 1 ppm = 0.0001% nd = none detected ppm = parts per m

All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

Appendix III

C. A. AGER & ASSOCIATES LTD.

Telephone (604) 536-1154

CONSULTING
GEOPHYSICISTS

15423 34th Ave.
Surrey, B.C. Canada
V3S 4N7

GRAVITY SURVEY

VAM CLAIMS

SUMMARY

The results of the gravity survey work over the VAM claims area are given in this report. The intent of the work was to delineate areas of gravity high residuals which are coincident with previously detected ground electromagnetic and geochemical responses. This gravity work has outlined one gravity high feature, but, due to the limited extent of the survey, the economic nature of the anomaly is unknown. Further geological mapping followed by more gravity work and, if warranted, diamond drilling are recommended.

Respectfully submitted,

C.A.AGER & ASSOCIATES LTD.

D.R. MacQuarrie

October 9, 1978

D.R.MacQuarrie, BSc,
Geophysicist

Charles A. Ager

Charles A. Ager, PhD, PEng.
Geophysicist

TABLE OF CONTENTS

LIST OF FIGURES

LOCATION, DATE OF WORK, CREW

Location: VAM Claims

Watson Lake Mining District

Big Campbell Creek Area, Yukon Territory

NTS 105G/14

61°47' N Latitude by 131°20' W Longitude

Date of Work:

Field Work: Sept 23-26, 1978

Office Work: Sept 28-Oct 9, 1978

Crew: D.R.MacQuarrie, BSc, party chief/data interpreter

P.A.Macy, BA, gravity observer

J.M.Travis, field assistant

C.A.Ager, PhD,PEng., data interpreter

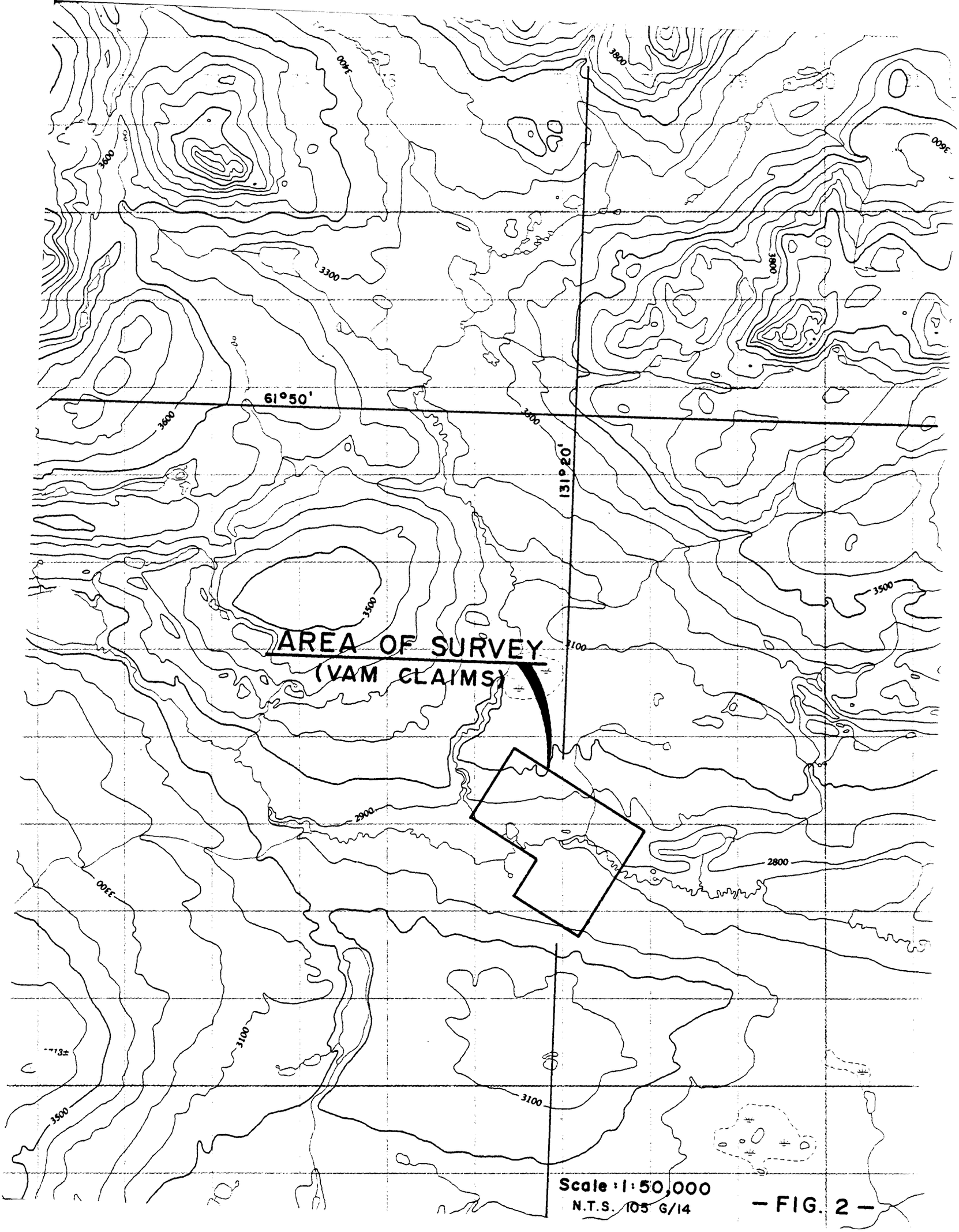
INTRODUCTION

At the request of Mr Bill Sirola, Kerr Addison Mines Ltd., a reconnaissance gravity survey was carried out over a portion of the VAM claim group, Big Campbell Creek area, Yukon Territory. This report summarizes the results of the 7.6 kilometers of survey work and suggests further exploration work.

GRAVITY

Gravity observations were made using a LaCoste & Romberg Model G gravity meter (serial number G199) with reading accuracy of $\pm$0.01 mgals. All elevations were measured using an electronic level developed by Ager & Associates Ltd. and are considered accurate to $\pm$0.03 meters between stations. The Bouguer gravity map is presented as Figure 3. It has been corrected for the effects of drift, latitude, free air and Bouguer slab. The elevation factor used to produce the map was 0.19128 mgal/meter which corresponds to a density of 2.80 g/cc. No terrain corrections were applied to the data as the topography is smooth and the effect very small.

The Non-Linear Gravity Map, Figure 4, was produced using a non-linear elevation factor. This factor was determined by LMS in a manner to minimumize the correlation of Bouguer gravity



Scale : 1 : 50,000
N.T.S. 105 G/14

— FIG. 2 —

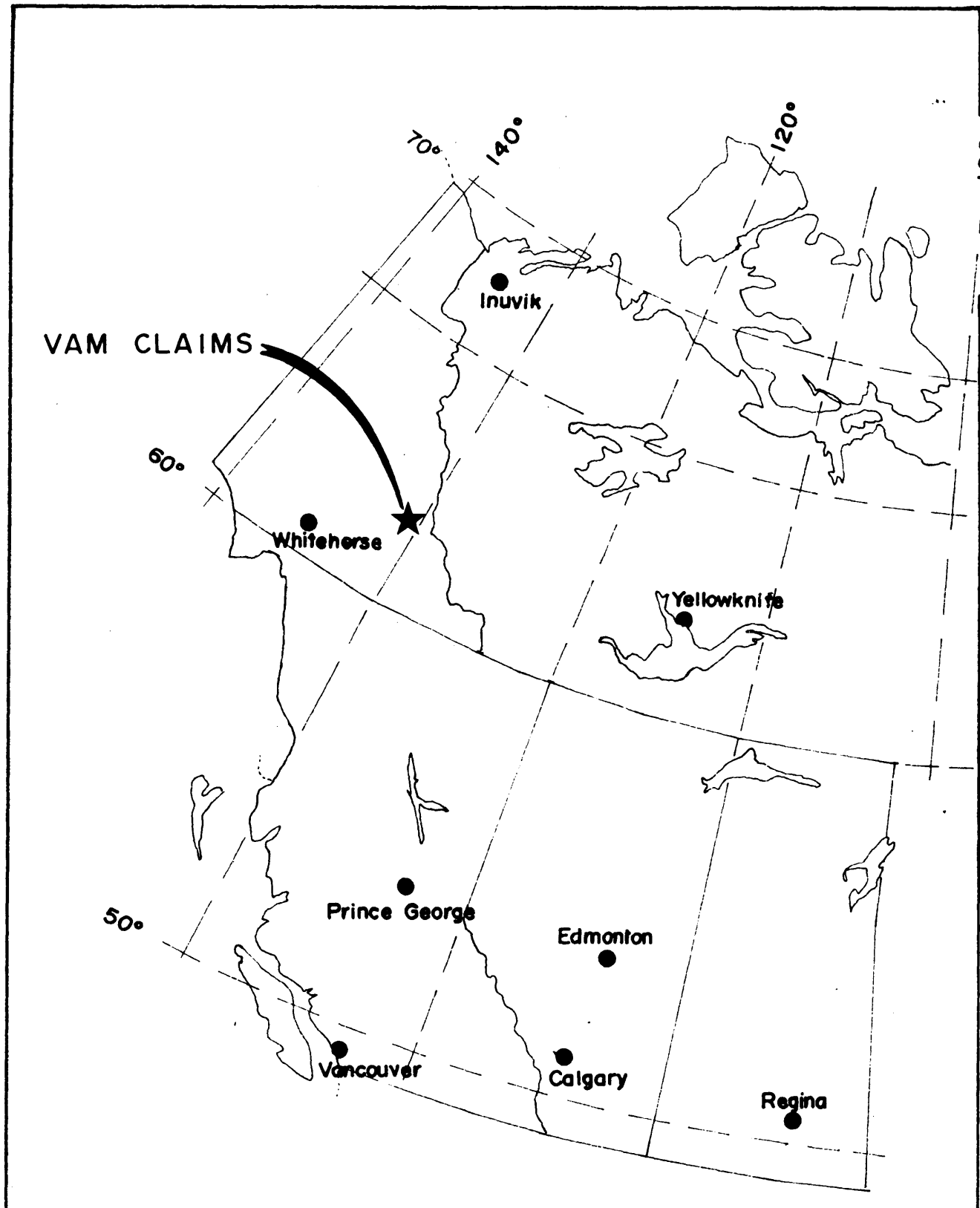


FIG. 1

LOCATION MAP

GENERAL LOCATION

DATE OCT. 1978

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with topography. The function of elevation so determined is as follows:

$$\frac{dg}{dh} = -0.14559 - 0.0000083646h \qquad (1)$$

where

h = station elevation in meters

$\frac{dg}{dh}$ = elevation factor in mgal/meter

Some sections of the survey area are very swampy and covered with a thick layer of moss. This difficult ground caused a $\pm$0.05 mgal 'noise' level in approximately 10% of the observed gravity values. In view of the large gravity gradient for the area, this noise factor is so small it is not considered important.

INTERPRETATION

The interpretetion is based solely on the gravity data presented in this report. Because of the limited extent of the survey, it is difficult to interpret the data fully. However, based on the gravity results available we have:

(1) The Bouguer gravity map, Figure 3, is dominated by a gravity high 'nose' feature which appears to extend across the entire survey area from L240W+2310N to L1440E+1590N. This anomaly is interpreted

to be caused by an arc of volcanics (mafic ?) with an implied density of at least 2.80 g/cc. This interpretation presumes that phyllitic or other less dense rocks bound the 'volcanics' on the north of the 2370N baseline.

(2) The Non-Linear gravity map, Figure 4, reveals a somewhat identical picture as discussed above. It has, however, had some topographic correlation removed and indicates a possible separation of the gravity high feature centered at L1440E+2340N. Geological mapping should most certainly be done here to determine for certain the cause of this feature.

RECOMMENDATIONS

In order to properly appraise the nature of the gravity high feature over the VAM claims, the following is suggested:

(1) If present geological field work does not rule out this gravity features economic significance, then an additional 20 kilometers of gravity work is recommended. It should cover the feature to the west and to the east so as to isolate its extent and to judge the nature of any residuals.

(2) Based on the results of the above work, gravity residuals which cannot be explained by ground truth information should be drilled to their centers of mass.

Respectfully submitted,

C.A.AGER & ASSOCIATES LTD.

October 9, 1978

D.R.MacQuarrie, BSc

Geophysicist

C.A.Ager, PhD, PEng.

Geophysicist

CERTIFICATE OF QUALIFICATIONS

I, Douglas R. MacQuarrie, do hereby certify that:

(1) I am a practising geophysicist with office and residence at Number 5 - 10391 Number 3 Road, Richmond, B.C., Canada.

(2) I have received the following university degree:

1974 B.Sc. (Combined Honours Geology/Geophysics)
University of British Columbia,
Vancouver, B.C.

(3) I am a member in good standing of the following professional organizations:

(a) B.C. Geophysical Society
(b) Canadian Institute of Mining & Metallurgy

(4) Since 1971 I have been engaged in various exploration and mining geophysics projects throughout Canada.

(5) The geophysical field work, data reduction and interpretation presented in this report were done under my direct supervision.

D R MacQuarrie

Douglas R. MacQuarrie, BSc

Geophysicist

CERTIFICATE OF QUALIFICATIONS

I, Charles A. Ager, do hereby certify that:

(1) I am a practising geophysicist with offices and residence at 15423 34th Avenue, Surrey, B.C., Canada.

(2) I have received the following university degrees:

(a) 1968 B.A. (Honours Math/Physics)
California State University, Sacramento, Calif.

(b) 1972 M.Sc. (Applied Geophysics)
University of B.C., Vancouver, B.C.

(c) 1975 Ph.D. (Applied Geophysics)
University of B.C., Vancouver, B.C.

(3) I am a member in good standing of the following professional organizations: (a) B.C. Geophysical Society
(b) Society of Exploration Geophysicists
(c) Association of Professional Engineers of the Province of British Columbia

(4) Since 1968 I have been engaged in exploration and mining geophysics over numerous projects in western North America and eastern Canada.

(5) The geophysical field work and the interpretation of the results in this report were done under my direct supervision.

Charles A. Ager, PhD, PEng
Geophysicist

APPENDIX A: VAM Claims Gravity Data

GB78-10: Gravity base GB78-10 is located 20 cm below ground level, 4 meters west of station 2550N on line 960E. The station is marked by a 2 meter high orange painted post.

Observed Gravity = 981,782.39 mgal (absolute)
= 23.40 mgal (relative)
ELEVATION = 881.66 meters

STATION COORD. (meters)			ELEVATION (meters)	OBS.GRAV (mgal)	B.GRAVITY (mgal)	TERRAIN (mgal)
L	240W	2160N	885.35	22.45	188.50	C.0
L	240W	2190N	887.57	22.30	188.74	C.0
L	240W	2220N	888.52	22.07	188.65	0.0
L	240W	2250N	888.80	22.11	188.70	C.0
L	240W	2280N	888.53	22.19	188.69	0.0
L	240W	2310N	888.67	22.21	188.71	0.0
L	240W	2340N	889.15	22.09	188.64	C.0
L	240W	2370N	889.34	22.08	188.64	0.0
L	240W	2400N	889.84	21.86	188.47	C.0
L	240W	2430N	890.59	21.73	188.46	C.0
L	240W	2460N	892.56	21.37	188.43	0.0
L	240W	2490N	895.80	20.82	188.47	C.0
L	240W	2520N	901.34	19.78	188.45	0.0
L	240W	2550N	905.81	18.98	188.47	0.0
L	240W	2580N	911.02	17.97	188.41	C.0
L	240W	2610N	915.81	17.00	188.32	0.0
L	240W	2640N	920.70	16.06	188.28	0.0
L	240W	2670N	923.60	15.51	188.25	C.0
L	240W	2700N	925.34	15.27	188.30	0.0
L	240W	2730N	926.90	14.94	188.24	C.0
L	240W	2760N	928.69	14.63	188.24	C.0
L	240W	2790N	930.59	14.25	188.20	0.0
L	240W	2820N	932.02	14.03	188.20	C.0
L	00	2160N	885.16	22.85	188.95	0.0
L	00	2190N	885.41	22.81	188.91	0.0
L	00	2220N	885.80	22.81	188.96	C.0
L	00	2250N	885.60	22.97	189.04	0.0
L	00	2280N	884.91	23.19	189.10	0.0
L	00	2310N	885.10	23.09	189.00	C.0
L	00	2340N	0.0	0.0	0.0	0.0
L	00	2370N	0.0	0.0	0.0	0.0
L	00	2400N	885.14	22.88	188.68	C.0
L	00	2430N	884.53	22.80	188.47	0.0
L	00	2460N	884.58	22.82	188.45	C.0
L	00	2490N	884.74	22.84	188.46	C.0
L	00	2520N	888.24	22.23	188.49	0.0
L	00	2550N	891.12	21.73	188.51	C.0
L	00	2580N	894.33	21.14	188.48	0.0
L	00	2610N	899.43	20.11	188.39	0.0
L	00	2640N	905.09	18.95	188.28	0.0
L	00	2670N	909.35	18.11	188.22	0.0
L	00	2700N	912.67	17.65	188.37	0.0
L	00	2730N	915.08	17.12	188.25	0.0
L	00	2760N	917.52	16.71	188.27	0.0
L	00	2790N	920.66	16.03	188.16	C.0
L	00	2820N	922.29	15.79	188.19	C.0

Utm.

L	240E	2280N	883.52	23.62	189.36	0.0
L	240E	2310N	883.91	23.50	189.28	0.0
L	240E	2340N	883.38	23.63	189.29	0.0
L	240E	2370N	883.30	23.58	189.17	0.0
L	240E	2400N	883.06	23.47	188.98	0.0
L	240E	2430N	883.02	23.40	188.88	0.0
L	240E	2460N	883.11	23.30	188.75	0.0
L	240E	2490N	883.37	23.17	188.64	0.0
L	240E	2520N	883.39	23.04	188.49	0.0
L	240E	2550N	883.84	22.88	188.38	0.0
L	240E	2580N	883.76	22.94	188.38	0.0
L	240E	2610N	884.11	22.88	188.37	0.0
L	240E	2640N	883.40	23.12	188.43	0.0
L	240E	2670N	885.18	22.92	188.53	0.0
L	240E	2700N	889.55	22.16	188.58	0.0
L	240E	2730N	895.25	21.10	188.57	0.0
L	240E	2760N	899.22	20.24	188.44	0.0
L	240E	2790N	899.92	20.05	188.34	0.0
L	240E	2820N	902.87	19.51	188.33	0.0
L	480E	2340N	881.26	24.04	189.36	0.0
L	480E	2370N	882.37	23.66	189.16	0.0
L	480E	2400N	882.15	23.65	189.07	0.0
L	480E	2430N	881.73	23.55	188.86	0.0
L	480E	2460N	881.86	23.47	188.78	0.0
L	480E	2490N	882.22	23.37	188.70	0.0
L	480E	2520N	882.12	23.26	188.54	0.0
L	480E	2550N	882.39	23.26	188.56	0.0
L	480E	2580N	882.82	23.04	188.39	0.0
L	480E	2610N	882.97	23.17	188.51	0.0
L	480E	2640N	883.25	23.07	188.42	0.0
L	480E	2670N	883.72	22.95	188.36	0.0
L	480E	2700N	884.16	22.94	188.41	0.0
L	480E	2730N	884.45	22.87	188.35	0.0
L	480E	2760N	886.98	22.45	188.38	0.0
L	480E	2790N	890.99	21.82	188.49	0.0
L	480E	2820N	895.66	21.00	188.52	0.0
L	720E	2010N	887.25	22.92	189.92	0.0
L	720E	2040N	886.12	23.20	189.94	0.0
L	720E	2070N	885.59	23.28	189.89	0.0
L	720E	2100N	885.18	23.35	189.84	0.0
L	720E	2130N	885.04	23.44	189.86	0.0
L	720E	2160N	885.65	23.34	189.85	0.0
L	720E	2190N	884.66	23.48	189.76	0.0
L	720E	2220N	884.53	23.43	189.65	0.0
L	720E	2250N	884.84	23.31	189.54	0.0
L	720E	2280N	885.76	23.11	189.47	0.0
L	720E	2310N	886.23	22.98	189.40	0.0
L	720E	2340N	886.69	22.73	189.21	0.0
L	720E	2370N	886.01	23.07	189.38	0.0
L	720E	2400N	881.38	23.67	189.06	0.0
L	720E	2430N	881.24	23.65	188.98	0.0
L	720E	2460N	882.04	23.41	188.85	0.0
L	720E	2490N	881.54	23.51	188.82	0.0
L	720E	2520N	881.41	23.45	188.70	0.0
L	720E	2550N	881.44	23.27	188.49	0.0
L	720E	2580N	882.57	23.08	188.49	0.0
L	720E	2610N	882.97	23.02	188.46	0.0
L	720E	2640N	883.51	22.95	188.47	0.0
L	720E	2670N	883.85	22.94	188.49	0.0
L	720E	2700N	884.38	22.84	188.45	0.0

L	720E	2730N	885.23	22.75	188.48	0.0
L	720E	2760N	886.55	22.51	188.46	0.0
L	720E	2790N	887.00	22.46	188.47	0.0
L	720E	2820N	888.13	22.15	188.33	0.0
L	960E	1410N	917.05	17.19	190.69	0.0
L	960E	1440N	914.03	17.91	190.80	0.0
L	960E	1470N	912.12	18.43	190.92	0.0
L	960E	1500N	910.18	18.72	190.79	0.0
L	960E	1530N	909.71	18.88	190.83	0.0
L	960E	1560N	909.65	18.96	190.86	0.0
L	960E	1590N	909.84	18.87	190.78	0.0
L	960E	1620N	908.38	19.13	190.72	0.0
L	960E	1650N	906.46	19.58	190.77	0.0
L	960E	1680N	904.79	19.95	190.79	0.0
L	960E	1710N	903.10	20.23	190.71	0.0
L	960E	1740N	901.42	20.69	190.82	0.0
L	960E	1770N	901.06	20.77	190.79	0.0
L	960E	1800N	899.85	20.96	190.71	0.0
L	960E	1830N	899.15	20.96	190.53	0.0
L	960E	1860N	899.07	21.00	190.53	0.0
L	960E	1890N	898.91	20.94	190.41	0.0
L	960E	1920N	898.20	20.99	190.28	0.0
L	960E	1950N	896.55	21.29	190.22	0.0
L	960E	1980N	894.70	21.63	190.17	0.0
L	960E	2010N	893.37	21.85	190.11	0.0
L	960E	2040N	893.38	21.76	189.99	0.0
L	960E	2070N	893.32	21.81	189.99	0.0
L	960E	2100N	891.16	22.16	189.89	0.0
L	960E	2130N	889.20	22.47	189.79	0.0
L	960E	2160N	888.38	22.72	189.84	0.0
L	960E	2190N	888.49	22.66	189.76	0.0
L	960E	2220N	888.58	22.61	189.70	0.0
L	960E	2250N	888.75	22.53	189.61	0.0
L	960E	2280N	888.80	22.41	189.46	0.0
L	960E	2310N	889.05	22.32	189.39	0.0
L	960E	2340N	889.43	22.26	189.36	0.0
L	960E	2370N	889.85	22.06	189.21	0.0
L	960E	2400N	889.11	22.16	189.13	0.0
L	960E	2430N	886.93	22.53	189.06	0.0
L	960E	2460N	882.49	23.39	189.04	0.0
L	960E	2490N	880.00	23.73	188.85	0.0
L	960E	2520N	880.59	23.66	188.85	0.0
L	960E	2550N	882.24	23.28	188.76	0.0
L	960E	2580N	882.31	23.19	188.64	0.0
L	960E	2610N	883.17	22.87	188.46	0.0
L	960E	2640N	883.42	22.81	188.41	0.0
L	960E	2670N	884.91	22.69	188.54	0.0
L	960E	2700N	886.67	22.38	188.53	0.0
L	960E	2730N	888.64	22.01	188.50	0.0
L	960E	2760N	889.43	21.88	188.48	0.0
L	960E	2790N	890.25	21.71	188.43	0.0
L	960E	2820N	891.34	21.40	188.30	0.0
L	1200E	1410N	917.98	17.23	191.06	0.0
L	1200E	1440N	915.80	17.75	191.13	0.0
L	1200E	1470N	913.58	18.25	191.17	0.0
L	1200E	1500N	911.04	18.82	191.23	0.0
L	1200E	1530N	908.51	19.43	191.30	0.0
L	1200E	1560N	906.95	19.72	191.27	0.0
L	1200E	1590N	906.11	20.04	191.39	0.0
L	1200E	1620N	906.15	20.03	191.34	0.0

L 1200E	1650N	906.46	19.97	191.31	0.0
L 1200E	1680N	905.95	20.03	191.24	0.0
L 1200E	1710N	904.40	20.42	191.30	0.0
L 1200E	1740N	902.68	20.74	191.25	0.0
L 1200E	1770N	901.82	20.83	191.14	0.0
L 1200E	1800N	901.19	20.98	191.13	0.0
L 1200E	1830N	900.97	20.95	191.02	0.0
L 1200E	1860N	899.90	21.04	190.88	0.0
L 1200E	1890N	899.14	20.97	190.63	0.0
L 1200E	1920N	897.84	21.12	190.49	0.0
L 1200E	1950N	897.95	21.11	190.46	0.0
L 1200E	1980N	897.78	21.10	190.38	0.0
L 1200E	2010N	896.82	21.16	190.23	0.0
L 1200E	2040N	894.08	21.65	190.15	0.0
L 1200E	2070N	891.33	22.17	190.11	0.0
L 1200E	2100N	889.51	22.50	190.06	0.0
L 1200E	2130N	888.75	22.61	189.99	0.0
L 1200E	2160N	888.04	22.60	189.81	0.0
L 1200E	2190N	887.74	22.81	189.92	0.0
L 1200E	2220N	887.66	22.75	189.81	0.0
L 1200E	2250N	887.11	22.77	189.70	0.0
L 1200E	2280N	885.71	23.00	189.62	0.0
L 1200E	2310N	882.81	23.49	189.53	0.0
L 1200E	2340N	881.12	23.74	189.41	0.0
L 1200E	2370N	881.35	23.73	189.39	0.0
L 1200E	2400N	880.60	23.83	189.31	0.0
L 1200E	2430N	879.54	23.93	189.17	0.0
L 1200E	2460N	879.40	23.95	189.12	0.0
L 1200E	2490N	881.57	23.50	189.06	0.0
L 1200E	2520N	884.42	22.98	189.04	0.0
L 1200E	2550N	886.27	22.56	188.95	0.0
L 1200E	2580N	887.41	22.31	188.89	0.0
L 1200E	2610N	888.21	22.14	188.83	0.0
L 1200E	2640N	888.17	22.11	188.75	0.0
L 1200E	2670N	886.55	22.41	188.71	0.0
L 1200E	2700N	886.67	22.17	188.46	0.0
L 1200E	2730N	886.98	22.07	188.38	0.0
L 1200E	2760N	888.27	21.81	188.34	0.0
L 1200E	2790N	890.29	21.45	188.34	0.0
L 1200E	2820N	893.04	20.93	188.30	0.0
L 1440E	1470N	916.08	18.00	191.53	0.0
L 1440E	1500N	913.31	18.64	191.61	0.0
L 1440E	1530N	911.90	19.03	191.69	0.0
L 1440E	1560N	910.00	19.37	191.64	0.0
L 1440E	1590N	908.76	19.66	191.66	0.0
L 1440E	1620N	906.19	20.15	191.62	0.0
L 1440E	1650N	904.12	20.60	191.64	0.0
L 1440E	1680N	903.40	20.84	191.71	0.0
L 1440E	1710N	902.99	20.90	191.65	0.0
L 1440E	1740N	903.26	20.80	191.57	0.0
L 1440E	1770N	903.12	20.78	191.49	0.0
L 1440E	1800N	901.94	21.02	191.48	0.0
L 1440E	1830N	901.47	21.02	191.36	0.0
L 1440E	1860N	900.97	21.02	191.22	0.0
L 1440E	1890N	900.34	21.10	191.15	0.0
L 1440E	1920N	900.19	21.01	190.99	0.0
L 1440E	1950N	900.18	20.91	190.86	0.0
L 1440E	1980N	898.81	21.21	190.86	0.0
L 1440E	2010N	897.00	21.45	190.72	0.0
L 1440E	2040N	894.70	21.86	190.65	0.0

L	1440E	2070N	892.04	22.37	190.62	0.0
L	1440E	2100N	888.93	22.97	190.59	0.0
L	1440E	2130N	886.85	23.31	190.50	0.0
L	1440E	2160N	885.87	23.44	190.41	0.0
L	1440E	2190N	884.76	23.62	190.34	0.0
L	1440E	2220N	883.59	23.76	190.23	0.0
L	1440E	2250N	883.21	23.80	190.15	0.0
L	1440E	2280N	882.32	23.95	190.10	0.0
L	1440E	2310N	881.13	24.13	190.03	0.0
L	1440E	2340N	878.47	24.64	189.99	0.0
L	1440E	2370N	877.66	24.70	189.86	0.0
L	1440E	2400N	877.90	24.69	189.86	0.0
L	1440E	2430N	877.71	24.74	189.84	0.0
L	1440E	2460N	879.23	24.43	189.79	0.0
L	1440E	2490N	882.44	23.74	189.68	0.0
L	1440E	2520N	885.16	23.12	189.54	0.0
L	1440E	2550N	886.75	22.72	189.41	0.0
L	1440E	2580N	886.03	22.79	189.31	0.0
L	1440E	2610N	884.47	23.00	189.18	0.0
L	1440E	2640N	883.17	23.34	189.25	0.0
L	1440E	2670N	882.88	23.39	189.21	0.0
L	1440E	2700N	882.55	23.43	189.15	0.0
L	1440E	2730N	882.39	23.36	189.02	0.0
L	1440E	2760N	882.53	23.20	188.84	0.0
L	1440E	2790N	882.63	23.15	188.78	0.0
L	1440E	2820N	883.32	22.98	188.71	0.0

EXECUTION TERMINATED

APPENDIX B: VAM CLAIMS NON-LINEAR GRAVITY DATA

$$\frac{dg}{dh} = -0.14559 - 0.00000836h$$

where

h = station elevation in meters

$\frac{dg}{dh}$ = elevation factor in mgal/meter

STATION COORD			ELEVATION	OBS. G	ADJ. G	ELEV EFFECT	N.L. G
L	240W	2160N	885.35	22.45	19.15	19.89	-0.74
L	240W	2190N	887.57	22.30	18.96	19.54	-0.58
L	240W	2220N	888.52	22.07	18.69	19.38	-0.69
L	240W	2250N	888.80	22.11	18.69	19.34	-0.65
L	240W	2280N	888.53	22.19	18.73	19.38	-0.65
L	240W	2310N	888.67	22.21	18.72	19.36	-0.64
L	240W	2340N	889.15	22.09	18.56	19.28	-0.72
L	240W	2370N	889.34	22.08	18.52	19.25	-0.73
L	240W	2400N	889.84	21.86	18.26	19.17	-0.91
L	240W	2430N	890.59	21.73	18.10	19.05	-0.95
L	240W	2460N	892.56	21.37	17.70	18.74	-1.04
L	240W	2490N	895.80	20.82	17.12	18.22	-1.10
L	240W	2520N	901.34	19.78	16.04	17.33	-1.29
L	240W	2550N	905.81	18.98	15.20	16.61	-1.41
L	240W	2580N	911.02	17.97	14.15	15.77	-1.62
L	240W	2610N	915.81	17.00	13.14	15.00	-1.86
L	240W	2640N	920.70	16.06	12.17	14.21	-2.04
L	240W	2670N	923.60	15.51	11.58	13.75	-2.17
L	240W	2700N	925.34	15.27	11.30	13.47	-2.17
L	240W	2730N	926.90	14.94	10.94	13.21	-2.27
L	240W	2760N	928.69	14.63	10.60	12.93	-2.33
L	240W	2790N	930.59	14.25	10.19	12.62	-2.43
L	240W	2820N	932.02	14.03	9.92	12.39	-2.47
L	00	2160N	885.16	22.85	19.63	19.92	-0.29
L	00	2190N	885.41	22.81	19.55	19.88	-0.33
L	00	2220N	885.80	22.81	19.52	19.82	-0.30
L	00	2250N	885.60	22.97	19.64	19.85	-0.21
L	00	2280N	884.91	23.19	19.83	19.96	-0.13
L	00	2310N	885.10	23.09	19.69	19.93	-0.24
L	00	2340N	885.35	0.0	19.15	19.89	-0.74
L	00	2370N	885.35	0.0	19.15	19.89	-0.74
L	00	2400N	885.14	22.88	19.37	19.93	-0.56
L	00	2430N	884.53	22.80	19.27	20.02	-0.75
L	00	2460N	884.58	22.82	19.24	20.02	-0.78
L	00	2490N	884.74	22.84	19.22	19.99	-0.77
L	00	2520N	888.24	22.23	18.58	19.43	-0.85
L	00	2550N	891.12	21.73	18.05	18.97	-0.92
L	00	2580N	894.33	21.14	17.41	18.45	-1.04
L	00	2610N	899.43	20.11	16.34	17.63	-1.29
L	00	2640N	905.09	18.95	15.15	16.72	-1.57
L	00	2670N	909.35	18.11	14.28	16.04	-1.76
L	00	2700N	912.67	17.65	13.79	15.50	-1.71
L	00	2730N	915.08	17.12	13.21	15.12	-1.91
L	00	2760N	917.52	16.71	12.76	14.72	-1.96
L	00	2790N	920.66	16.03	12.05	14.22	-2.17
L	00	2820N	922.29	15.79	11.77	13.96	-2.19

VAM non linear.

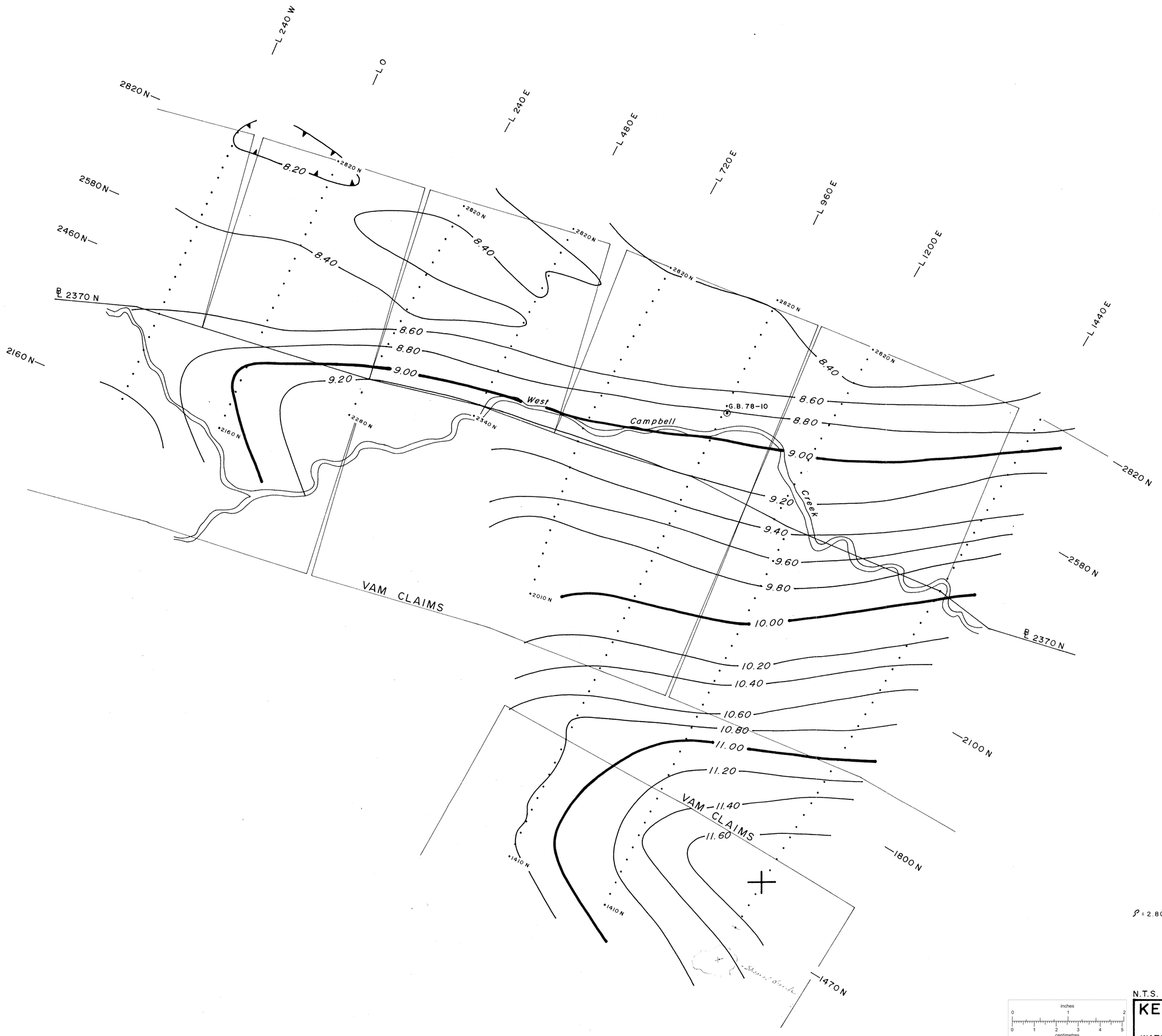
	L	240E	2280N	883.52	23.62	20.36	20.19	0.17
	L	240E	2310N	883.91	23.50	20.20	20.12	0.08
	L	240E	2340N	883.38	23.63	20.31	20.21	0.10
	L	240E	2370N	883.30	23.58	20.21	20.22	-0.01
	L	240E	2400N	883.06	23.47	20.07	20.26	-0.19
	L	240E	2430N	883.02	23.40	19.97	20.27	-0.30
	L	240E	2460N	883.11	23.30	19.83	20.25	-0.42
	L	240E	2490N	883.37	23.17	19.67	20.21	-0.54
	L	240E	2520N	883.39	23.04	19.51	20.21	-0.70
	L	240E	2550N	883.84	22.88	19.32	20.14	-0.82
	L	240E	2580N	883.76	22.94	19.33	20.15	-0.82
	L	240E	2610N	884.11	22.88	19.25	20.09	-0.84
	L	240E	2640N	883.40	23.12	19.45	20.21	-0.76
	L	240E	2670N	885.18	22.92	19.21	19.92	-0.71
	L	240E	2700N	889.55	22.16	18.42	19.22	-0.80
	L	240E	2730N	895.25	21.10	17.32	18.30	-0.98
	L	240E	2760N	899.22	20.24	16.43	17.67	-1.24
	L	240E	2790N	899.92	20.05	16.20	17.55	-1.35
	L	240E	2820N	902.87	19.51	15.63	17.08	-1.45
	L	480E	2340N	881.26	24.04	20.79	20.55	0.24
	L	480E	2370N	882.37	23.66	20.38	20.37	0.01
	L	480E	2400N	882.15	23.65	20.33	20.41	-0.08
	L	480E	2430N	881.73	23.55	20.20	20.47	-0.27
	L	480E	2460N	881.86	23.47	20.09	20.45	-0.36
	L	480E	2490N	882.22	23.37	19.95	20.39	-0.44
	L	480E	2520N	882.12	23.26	19.80	20.41	-0.61
	L	480E	2550N	882.39	23.26	19.77	20.37	-0.60
	L	480E	2580N	882.82	23.04	19.52	20.30	-0.78
	L	480E	2610N	882.97	23.17	19.61	20.27	-0.66
	L	480E	2640N	883.25	23.07	19.47	20.23	-0.76
	L	480E	2670N	883.72	22.95	19.32	20.15	-0.83
	L	480E	2700N	884.16	22.94	19.28	20.08	-0.80
	L	480E	2730N	884.45	22.87	19.17	20.04	-0.87
	L	480E	2760N	886.98	22.45	18.72	19.63	-0.91
	L	480E	2790N	890.99	21.82	18.06	18.99	-0.93
	L	480E	2820N	895.66	21.00	17.19	18.24	-1.05
	L	720E	2010N	887.25	22.92	20.20	19.59	0.61
	L	720E	2040N	886.12	23.20	20.44	19.77	0.67
	L	720E	2070N	885.59	23.28	20.49	19.85	0.64
	L	720E	2100N	885.18	23.35	20.52	19.92	0.60
	L	720E	2130N	885.04	23.44	20.57	19.94	0.63
	L	720E	2160N	885.65	23.34	20.44	19.84	0.60
	L	720E	2190N	884.66	23.48	20.54	20.00	0.54
	L	720E	2220N	884.53	23.43	20.45	20.02	0.43
	L	720E	2250N	884.84	23.31	20.28	19.97	0.31
	L	720E	2280N	885.76	23.11	20.04	19.83	0.21
	L	720E	2310N	886.23	22.98	19.88	19.75	0.13
	L	720E	2340N	886.69	22.73	19.60	19.68	-0.08
	L	720E	2370N	886.01	23.07	19.90	19.79	0.11
	L	720E	2400N	881.38	23.67	20.47	20.53	-0.06
	L	720E	2430N	881.24	23.65	20.41	20.55	-0.14
	L	720E	2460N	882.04	23.41	20.13	20.42	-0.29
	L	720E	2490N	881.54	23.51	20.20	20.50	-0.30
	L	720E	2520N	881.41	23.45	20.10	20.52	-0.42
	L	720E	2550N	881.44	23.27	19.89	20.52	-0.63
	L	720E	2580N	882.57	23.08	19.67	20.34	-0.67
	L	720E	2610N	882.97	23.02	19.56	20.27	-0.71
	L	720E	2640N	883.51	22.95	19.47	20.19	-0.72
	L	720E	2670N	883.85	22.94	19.42	20.13	-0.71
	L	720E	2700N	884.38	22.84	19.28	20.05	-0.77

L	720E	2730N	885.23	22.75	19.15	19.91	-0.76
L	720E	2760N	886.55	22.51	18.88	19.70	-0.82
L	720E	2790N	887.00	22.46	18.80	19.63	-0.83
L	720E	2820N	888.13	22.15	18.45	19.45	-1.00
L	960E	1410N	917.05	17.19	15.27	14.80	0.47
L	960E	1440N	914.03	17.91	15.96	15.29	0.67
L	960E	1470N	912.12	18.43	16.45	15.59	0.86
L	960E	1500N	910.18	18.72	16.69	15.90	0.79
L	960E	1530N	909.71	18.88	16.82	15.98	0.84
L	960E	1560N	909.65	18.96	16.86	15.99	0.87
L	960E	1590N	909.84	18.87	16.74	15.96	0.78
L	960E	1620N	908.38	19.13	16.96	16.19	0.77
L	960E	1650N	906.46	19.58	17.38	16.50	0.88
L	960E	1680N	904.79	19.95	17.72	16.77	0.95
L	960E	1710N	903.10	20.23	17.96	17.04	0.92
L	960E	1740N	901.42	20.69	18.39	17.31	1.08
L	960E	1770N	901.06	20.77	18.42	17.37	1.06
L	960E	1800N	899.85	20.96	18.58	17.57	1.01
L	960E	1830N	899.15	20.96	18.54	17.68	0.86
L	960E	1860N	899.07	21.00	18.55	17.69	0.86
L	960E	1890N	898.91	20.94	18.46	17.72	0.74
L	960E	1920N	898.20	20.99	18.47	17.83	0.64
L	960E	1950N	896.55	21.29	18.72	18.10	0.62
L	960E	1980N	894.70	21.63	19.03	18.39	0.64
L	960E	2010N	893.37	21.85	19.22	18.61	0.61
L	960E	2040N	893.38	21.76	19.10	18.60	0.50
L	960E	2070N	893.32	21.81	19.11	18.61	0.50
L	960E	2100N	891.16	22.16	19.43	18.96	0.47
L	960E	2130N	889.20	22.47	19.70	19.28	0.42
L	960E	2160N	888.38	22.72	19.91	19.41	0.50
L	960E	2190N	888.49	22.66	19.81	19.39	0.42
L	960E	2220N	888.58	22.61	19.73	19.37	0.36
L	960E	2250N	888.75	22.53	19.61	19.35	0.26
L	960E	2280N	888.80	22.41	19.45	19.34	0.11
L	960E	2310N	889.05	22.32	19.33	19.30	0.03
L	960E	2340N	889.43	22.25	19.23	19.24	-0.01
L	960E	2370N	889.85	22.06	19.00	19.17	-0.17
L	960E	2400N	889.11	22.16	19.06	19.29	-0.23
L	960E	2430N	886.93	22.53	19.40	19.64	-0.24
L	960E	2460N	882.49	23.39	20.23	20.35	-0.12
L	960E	2490N	880.00	23.73	20.52	20.75	-0.23
L	960E	2520N	880.59	23.66	20.41	20.66	-0.25
L	960E	2550N	882.24	23.28	20.00	20.39	-0.39
L	960E	2580N	882.31	23.19	19.87	20.38	-0.51
L	960E	2610N	883.17	22.87	19.52	20.24	-0.72
L	960E	2640N	883.42	22.81	19.43	20.20	-0.77
L	960E	2670N	884.91	22.69	19.27	19.96	-0.69
L	960E	2700N	886.67	22.38	18.92	19.68	-0.76
L	960E	2730N	888.64	22.01	18.52	19.37	-0.85
L	960E	2760N	889.43	21.88	18.35	19.24	-0.89
L	960E	2790N	890.25	21.71	18.14	19.11	-0.97
L	960E	2820N	891.34	21.40	17.80	18.93	-1.13
L	1200E	1410N	917.98	17.23	15.47	14.65	0.82
L	1200E	1440N	915.80	17.75	15.95	15.00	0.95
L	1200E	1470N	913.58	18.25	16.42	15.36	1.06
L	1200E	1500N	911.04	18.82	16.96	15.77	1.19
L	1200E	1530N	908.51	19.43	17.52	16.17	1.35
L	1200E	1560N	906.95	19.72	17.79	16.42	1.37
L	1200E	1590N	906.11	20.04	18.07	16.56	1.51
L	1200E	1620N	906.15	20.03	18.01	16.55	1.46

L 1200E	1650N	906.46	19.97	17.92	16.50	1.42
L 1200E	1680N	905.95	20.03	17.95	16.59	1.36
L 1200E	1710N	904.40	20.42	18.30	16.83	1.47
L 1200E	1740N	902.68	20.74	18.58	17.11	1.47
L 1200E	1770N	901.82	20.83	18.64	17.25	1.39
L 1200E	1800N	901.19	20.98	18.75	17.35	1.40
L 1200E	1830N	900.97	20.95	18.68	17.39	1.29
L 1200E	1860N	899.90	21.04	18.74	17.56	1.18
L 1200E	1890N	899.14	20.97	18.64	17.68	0.96
L 1200E	1920N	897.84	21.12	18.75	17.89	0.86
L 1200E	1950N	897.95	21.11	18.70	17.87	0.83
L 1200E	1980N	897.78	21.10	18.65	17.90	0.75
L 1200E	2010N	896.82	21.16	18.68	18.05	0.63
L 1200E	2040N	894.08	21.65	19.13	18.49	0.64
L 1200E	2070N	891.33	22.17	19.61	18.93	0.68
L 1200E	2100N	889.51	22.50	19.91	19.23	0.68
L 1200E	2130N	888.75	22.61	19.99	19.35	0.64
L 1200E	2160N	888.04	22.60	19.94	19.46	0.48
L 1200E	2190N	887.74	22.81	20.11	19.51	0.60
L 1200E	2220N	887.66	22.75	20.02	19.52	0.50
L 1200E	2250N	887.11	22.77	20.01	19.61	0.40
L 1200E	2280N	885.71	23.00	20.20	19.84	0.36
L 1200E	2310N	882.81	23.49	20.66	20.30	0.36
L 1200E	2340N	881.12	23.74	20.87	20.57	0.30
L 1200E	2370N	881.35	23.73	20.80	20.53	0.27
L 1200E	2400N	880.60	23.83	20.87	20.65	0.22
L 1200E	2430N	879.54	23.93	20.93	20.82	0.11
L 1200E	2460N	879.40	23.95	20.91	20.85	0.06
L 1200E	2490N	881.57	23.50	20.43	20.50	-0.07
L 1200E	2520N	884.42	22.98	19.87	20.04	-0.17
L 1200E	2550N	886.27	22.56	19.42	19.75	-0.33
L 1200E	2580N	887.41	22.31	19.14	19.56	-0.42
L 1200E	2610N	888.21	22.14	18.93	19.43	-0.50
L 1200E	2640N	888.17	22.11	18.86	19.44	-0.58
L 1200E	2670N	886.55	22.41	19.13	19.70	-0.57
L 1200E	2700N	886.67	22.17	18.85	19.68	-0.83
L 1200E	2730N	886.98	22.07	18.72	19.63	-0.91
L 1200E	2760N	888.27	21.81	18.43	19.42	-0.99
L 1200E	2790N	890.29	21.45	18.04	19.10	-1.06
L 1200E	2820N	893.04	20.93	17.48	18.66	-1.18
L 1440E	1470N	916.08	18.00	16.30	14.96	1.34
L 1440E	1500N	913.31	18.64	16.91	15.40	1.51
L 1440E	1530N	911.90	19.03	17.26	15.63	1.63
L 1440E	1560N	910.00	19.37	17.57	15.93	1.64
L 1440E	1590N	908.76	19.66	17.83	16.13	1.70
L 1440E	1620N	906.19	20.15	18.28	16.55	1.73
L 1440E	1650N	904.12	20.60	18.70	16.88	1.82
L 1440E	1680N	903.40	20.84	18.90	16.99	1.91
L 1440E	1710N	902.99	20.90	18.92	17.06	1.86
L 1440E	1740N	903.26	20.80	18.79	17.02	1.77
L 1440E	1770N	903.12	20.78	18.74	17.04	1.70
L 1440E	1800N	901.94	21.02	18.95	17.23	1.72
L 1440E	1830N	901.47	21.02	18.92	17.31	1.61
L 1440E	1860N	900.97	21.02	18.88	17.39	1.49
L 1440E	1890N	900.34	21.10	18.93	17.49	1.44
L 1440E	1920N	900.19	21.01	18.80	17.51	1.29
L 1440E	1950N	900.18	20.91	18.67	17.51	1.16
L 1440E	1980N	898.81	21.21	18.93	17.73	1.20
L 1440E	2010N	897.00	21.45	19.14	18.02	1.12
L 1440E	2040N	894.70	21.86	19.51	18.39	1.12

L 1440E	2070N	892.04	22.37	19.99	18.82	1.17
L 1440E	2100N	888.93	22.97	20.55	19.32	1.23
L 1440E	2130N	886.85	23.31	20.86	19.65	1.21
L 1440E	2160N	885.87	23.44	20.96	19.81	1.15
L 1440E	2190N	884.76	23.62	21.10	19.99	1.11
L 1440E	2220N	883.59	23.76	21.21	20.18	1.03
L 1440E	2250N	883.21	23.80	21.21	20.24	0.97
L 1440E	2280N	882.32	23.95	21.33	20.38	0.95
L 1440E	2310N	881.13	24.13	21.48	20.57	0.91
L 1440E	2340N	878.47	24.64	21.95	21.00	0.95
L 1440E	2370N	877.66	24.79	21.98	21.13	0.85
L 1440E	2400N	877.90	24.69	21.93	21.09	0.84
L 1440E	2430N	877.71	24.74	21.95	21.12	0.83
L 1440E	2460N	879.23	24.43	21.61	20.87	0.74
L 1440E	2490N	882.44	23.74	20.88	20.36	0.52
L 1440E	2520N	885.16	23.12	20.22	19.92	0.30
L 1440E	2550N	886.75	22.72	19.79	19.67	0.12
L 1440E	2580N	886.03	22.79	19.83	19.78	0.05
L 1440E	2610N	884.47	23.00	20.00	20.03	-0.03
L 1440E	2640N	883.17	23.34	20.31	20.24	0.07
L 1440E	2670N	882.88	23.39	20.33	20.29	0.04
L 1440E	2700N	882.55	23.43	20.33	20.34	-0.01
L 1440E	2730N	882.39	23.36	20.23	20.37	-0.14
L 1440E	2760N	882.53	23.20	20.03	20.35	-0.32
L 1440E	2790N	882.63	23.15	19.95	20.33	-0.38
L 1440E	2820N	883.32	22.98	19.75	20.22	-0.47

EXECUTION TERMINATED



ρ = 2.80 g/cc (E.F. = 0.19128 Mgal/M)

100 50 0 100 200 300
Metres

N.T.S. 105 G/14

inches
0 1 2
0 1 2 3 4 5
centimetres

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

YUKON GEOLOGICAL SURVEY

TO ACCOMPANY REPORT TITLED:
GRAVITY SURVEY
VAM CLAIMS AREA
BY: C.A. AGER PhD, PEng.
DATED: OCT. 1978 PROJECT: VAM

KERR ADDISON MINES LTD.

— ROSS RIVER AREA —

WATSON LAKE MINING DISTRICT, YUKON TERRITORY

SIMPLE BOUGUER GRAVITY MAP

CONTOUR INTERVAL: 0.20 MGAL.

C.A. AGER & ASSOC. SURREY B.C. CANADA	DWN. BY: T.M.	FIG. NO.
	CHK. BY:	3
	DATE: OCT. 1978	

L 240 W
L 0
L 240 E
L 480 E
L 720 E
L 960 E
L 1200 E
L 1440 E
2820 N
2580 N
2460 N
2160 N
2100 N
1800 N
1470 N
2010 N
1410 N
B.L. 2370 N
-2.20
-2.00
-1.80
-1.40
-1.00
-0.80
-0.60
-0.40
-0.20
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
1.60
1.80
G.B. 78-10
West
Campbell
Creek
VAM CLAIMS
VAM CLAIMS

100 50 0 100 200 300
Metres

N.T.S. 105 G/14

inches
0 1 2
0 1 2 3 4 5
centimetres

YUKON GEOLOGICAL SURVEY

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TO ACCOMPANY REPORT TITLED:
GRAVITY SURVEY
VAM CLAIMS AREA
BY: C.A. AGER PhD, PEng.
DATED: OCT. 1978 PROJECT: VAM

KERR ADDISON MINES LTD.
— ROSS RIVER AREA —
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

NON-LINEAR BOUGUER GRAVITY MAP
CONTOUR INTERVAL: 0.20 MGAL.

C.A. AGER & ASSOC.
SURREY B.C. CANADA

DWN. BY: T.M.	FIG. NO.
CHK. BY:	4
DATE: OCT. 1978	

100 50 0 100 200 300
Metres

N.T.S. 105 G/14

inches
0 1 2
0 1 2 3 4 5
centimetres

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YUKON GEOLOGICAL SURVEY

KERR ADDISON MINES LTD.

— ROSS RIVER AREA —

WATSON LAKE MINING DISTRICT, YUKON TERRITORY

ELEVATION MAP

CONTOUR INTERVAL : 5 METRES

TO ACCOMPANY REPORT TITLED:
GRAVITY SURVEY
VAM CLAIMS AREA
BY: C.A. AGER PhD, PEng.
DATED: OCT. 1978 PROJECT: VAM

C.A. AGER & ASSOC. SURREY B.C. CANADA	DWN. BY: T.M.	FIG. NO.
	CHK. BY:	5
	DATE: OCT. 1978	

VAM CLAIMS

VAL CLAIMS

"TOM"

LAKE

LAKE

Helipad

Helipad

Flat muskeg

Pond

KA 78-2
-60°, 185m

KA 79-1
82°, 190m

Note: Zn Geochemistry (>200 ppm) on the Black claims.

LEGEND

- Creek
- Claim post
- Claim location line
- Blazed grid line with stations flagged.
- V21 VAL claims & no.
- 23 VAM claims & no.
- B16 BLACK claims & no.
- Outcrop
- 21 | 122 Soil sample site with Pb, Zn values in ppm.
- (1) Green-grey chlorite sericite phyllite
- (2) Sheared basalt-chlorite-carb altered
- (3) Sheared diorite. Chlorite-carb altered; possibly same unit as 2.
- (4) Silica carbonate rock.

MAP No. 5

0 50 100 200 300 400 500m

KERR ADDISON MINES LTD, VANCOUVER, B.C.

BLACK, VAM & VAL CLAIMS

ROSS RIVER AREA, YUKON

GEOCHEMISTRY - GEOLOGY

SCALE 1:5000 metres | DATE NOVEMBER, 1978

DRAWN BY W. MURTON, P. HAILLOT | DATA BY: W. MURTON, F. CHOW

inches 0 1 2

centimetres 0 1 2 3 4 5

YUKON GEOLOGICAL SURVEY

This reference scale bar was measured on the original image. It will scale at the same ratio as the original and can be used as a reference for the original size.

VAM CLAIMS

VAL CLAIMS

LAKE

TOM

LAKE

0+00 BASE LINE

BASE LINE 0+00

Pond

LEGEND

- Creek
- Claim post
- Claim location line
- Blazed grid line with stations flagged.
- V21 VAL claims & no.
- 23 VAM claims & no.
- B16 BLACK claims & no.
- -35° - 40°
- -30° - 35°
- -25° - 30°
- -20° - 25°
- -15° - 20°
- -10° - 15°
- -5° - 10°
- -5°

MAP No. 6

0 50 100 200 300 400 500m

KERR ADDISON MINES LTD, VANCOUVER, B.C.

BLACK, VAM & VAL CLAIMS

ROSS RIVER AREA, YUKON

J.E.M SURVEY

SCALE - 1: 5000 metres | DATE: NOVEMBER, 1978

DRAWN BY: W. MURTON, P. HAILLOT | DATA BY: P. LEWIS, T. JONES

inches 0 1 2

centimetres 0 1 2 3 4 5

YUKON GEOLOGICAL SURVEY

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

VAM CLAIMS

VAL CLAIMS

"TOM"

LAKE

LAKE

Creek

NOTE: Above ground Mag on the new Black claims

LEGEND

- Creek
- Claim post
- Claim location line
- Blazed grid line with stations flagged.
- V21 VAL claims & no.
- 23 VAM claims & no.
- B16 BLACK claims & no.

	- 400 gammas
	- 400 - 500
	- 500 - 550
	- 550 - 600
	- 600 - 650
	- 650 - 700
	- 700 - 750
	- 750

MAP No. 7

0 50 100 200 300 400 500m

KERR ADDISON MINES LTD, VANCOUVER, B.C.

BLACK, VAM & VAL CLAIMS

ROSS RIVER AREA, YUKON

GROUND MAGNETIC SURVEY

SCALE - 1: 5000 metres | DATE: NOVEMBER, 1978

DRAWN BY: W. MURTON, P. HAILLOT | DATA BY: P. LEWIS, T. JONES

inches 0 1 2

centimetres 0 1 2 3 4 5

YUKON GEOLOGICAL SURVEY

This reference scale bar has been added to the original image. It will change if the image is resized as the image, therefore it can be used as a reference for the original size.

VAM CLAIMS

VAL CLAIMS

LAKE

"TOM"

LAKE

Pond

0+00 BASE LINE

BASE LINE 0+00

8.20

8.40

8.60

8.80

9.00

9.20

9.40

9.60

9.80

10.0

10.20

10.40

10.60

10.80

11.00

11.20

11.40

11.60

LEGEND

- Creek
- Claim post
- Claim location line
- Blazed grid line with stations flagged.
- V21 VAL claims & no.
- 23 VAM claims & no.
- B16 BLACK claims & no.

Contour interval : 0.20 mgal

Elevation factor : 0.19128 mgal/metres

Density : 2.80 g/cc

Latitude effect :

MAP No. 8

0 50 100 200 300 400 500 m

KERR ADDISON MINES LTD, VANCOUVER, B.C.

BLACK, VAM & VAL CLAIMS

ROSS RIVER AREA, YUKON

GRAVITY SURVEY

SCALE - 1:5000 metres | DATE: NOVEMBER, 1978

DRAWN BY: W. MURTON, P. HAILLOT | DATA BY: C.A. AGER & ASSOCIATES

YUKON GEOLOGICAL SURVEY

This reference scale bar has been added to the original image. It will change if the image is resized as the image therefore it can be used as a reference for the original size.

VAM CLAIMS

VAL CLAIMS

"TOM"

LAKE

LAKE

Hellpad

Hellpad

Pond

BASE LINE 0+00

-10
-20
-25
-20
-25
-20
-20
9.00
10.60
11.0
11.20
11.40
11.6
-20
-20
-20
-20
700
700
700
-500
-20
-10

LEGEND

- Creek
- Claim post
- Claim location line
- Blazed grid line with stations flagged.
- V21 VAL claims & no.
- 23 VAM claims & no.
- B16 BLACK claims & no.
- J.E.M SURVEY
- MAGNETOMETER SURVEY
- GRAVITY SURVEY
- GEOLOGY
- Outcrop
- (1) Green – grey chlorite sericite phyllite
- (2) Sheared basalt – chlorite – carb altered
- (3) Sheared diorite . Chlorite – carb altered ; possibly same unit as "2".
- (4) Silica carbonate rock.

MAP No. 9

0 50 100 200 300 400 500m

KERR ADDISON MINES LTD., VANCOUVER, B.C.

BLACK, VAM & VAL CLAIMS

ROSS RIVER AREA, YUKON

COMPOSITE MAP

J.E.M, MAG, GEOLOGY & GRAVITY

SCALE – 1:5000 metres | DATE: NOVEMBER, 1978

DRAWN BY: P. HAILLOT | DATA BY: W. MURTON

inches 0 1 2
centimetres 0 1 2 3 4 5

This reference scale bar has been added to the original plan by the YGS staff as the image, therefore is not the used as a reference for the original size.

YUKON GEOLOGICAL SURVEY

NOTE: Line numbers on grid are related to the old scale & are in feet (L10S = 1,000 feet south of line 0+00).

BLACK 15 / BLACK 13 — 14
BLACK 7 — 8 / 5 — 6
BLACK 11 — 12 / 9 — 10
BLACK 36 / BLACK 34
BLACK 20 — 18 / BLACK 19 — 17
VAL 44
BLACK 3 — 1
BLACK 32 / BLACK 30
VAL 43 / VAL 42
BLACK 24 — 22 / VAL 38 — VAL 37
BLACK 26
VAL 41

5N, 0+00, 5S, 10S, 15S, 20S, 25S, 30S, 35S, 40S, 45S

0+00 Base Line

TOM

LAKE

A — A'

Spartan ddh ~90° to 254'

Marge ddh 2 ~60° to 281'

KA78-1 ~83°, 528'

KA78-2 ~60°, 472'

9150δ

9350δ

9400

9450

9500

5° 10° 15° 20° 25° 30°

20° 25° 30°

30° 50°

GROUND MAG

GROUND E.M.

Zn GEOCHEMISTRY (> 200 ppm)

inches 0 1

centimetres 0 1 2

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

MAP No. 10

SCALE – 1" = 400' or 1:5000m

0 100 200 400 600 800 1000ft

0 50 100 200 300 400 metres

KERR ADDISON MINES LTD
VANCOUVER, B.C.

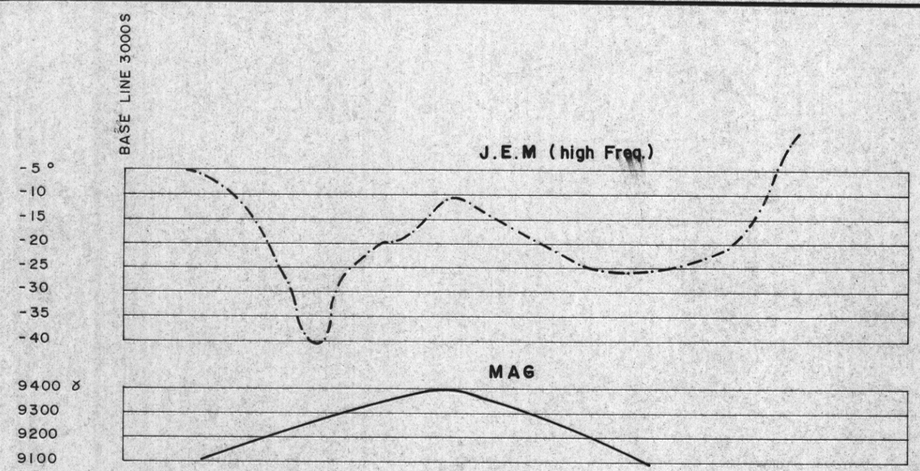
OLD COMPOSITE PLAN

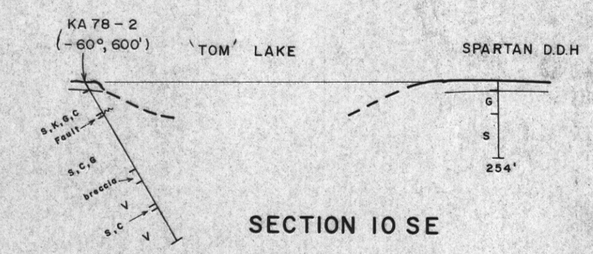
GROUND MAG, E.M, GEOCHEMISTRY (Zn)

NEW BLACK CLAIM AREA
Yukon Territory

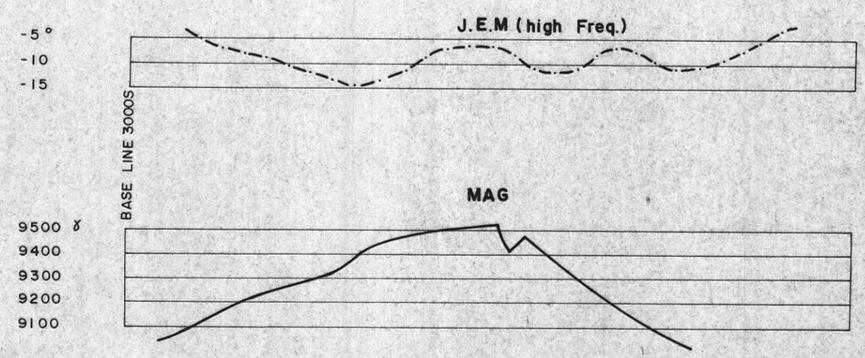
N.T.S – 105 G – 14	SCALE –
DRAWN BY : J.W.Murton	DATE : APRIL, 1978

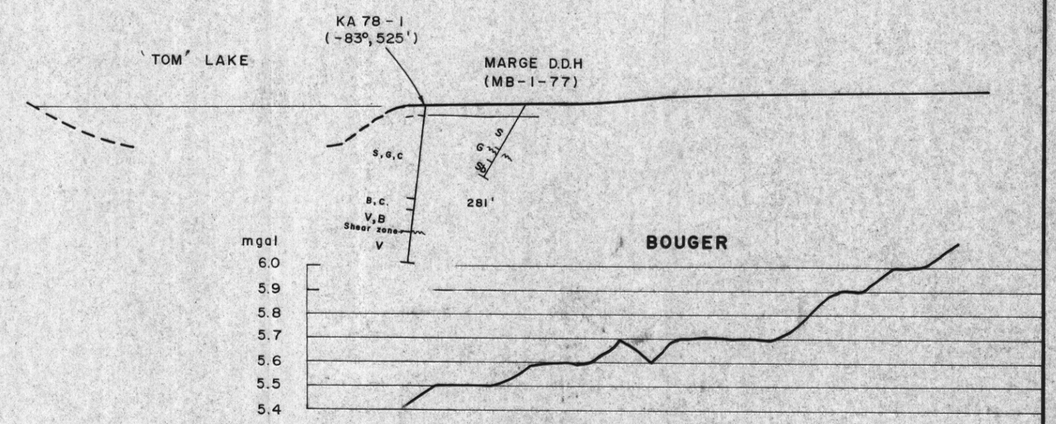
office sheet

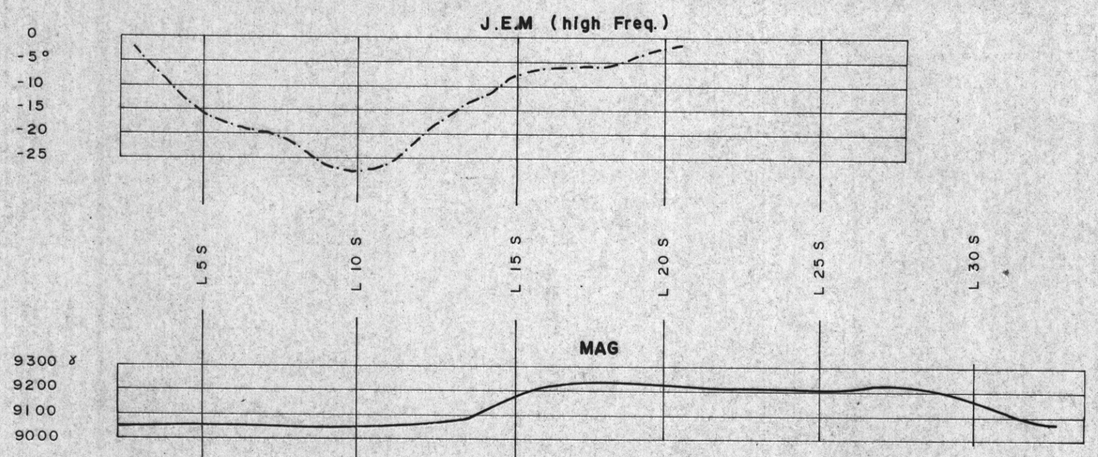


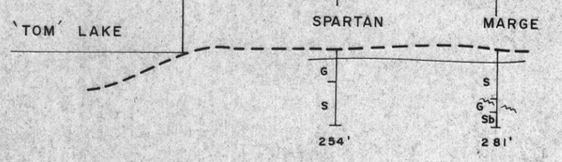


SECTION 10 SE
LOOKING NW









SECTION A-A', LOOKING NE

SECTION 15 S E
LOOKING NW

GEOLOGICAL LEGEND

V	VOLCANICS
G	GRAPHITE PHYLLITE
S	SERICITE PHYLLITE
Sb	BLEACHED PHYLLITE
C	CHLORITE PHYLLITE
T	TALC
K	CALCITE
B	BIOTITE

MAP No. 11

KERR ADDISON MINES LTD
VANCOUVER, B.C

BLACK CLAIMS
YUKON TERRITORY

COMPOSITE CROSS-SECTIONS 10,15 SE & A-A'

N.T.S — 105 G - 14 | SCALE - 1:5,000 m
DRAWN BY : A. Po | DATE : MAY, NOV, 1978

inches 0 1
centimetres 0 1 2
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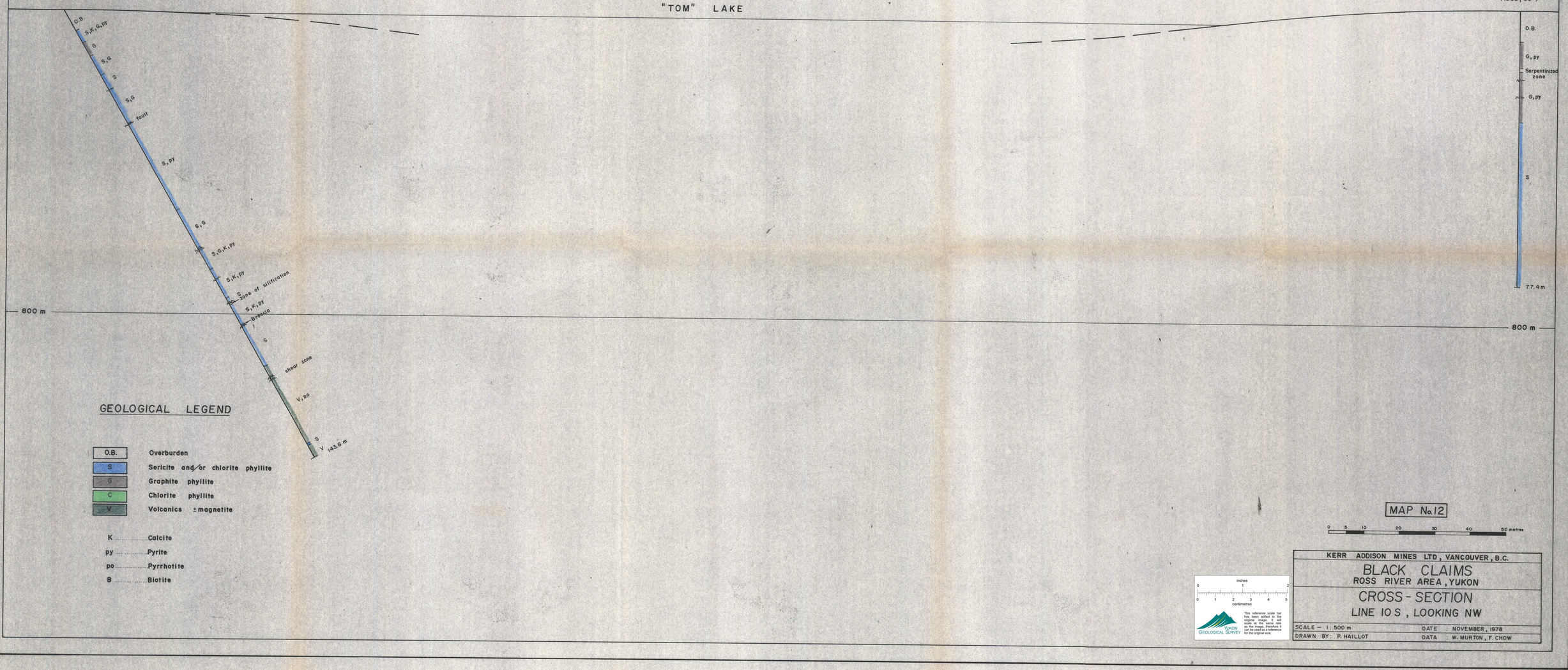
YUKON GEOLOGICAL SURVEY



GEOLOGICAL LEGEND

O.B.	Overburden
S	Sericite and/or chlorite phyllite
G	Graphite phyllite
C	Chlorite phyllite
V	Volcanics ± magnetite

K ..... Calcite
py ..... Pyrite
po ..... Pyrrhotite
B ..... Biotite

MAP No. 12

0 5 10 20 30 40 50 metres

inches
0 1 2
centimetres
0 1 2 3 4 5

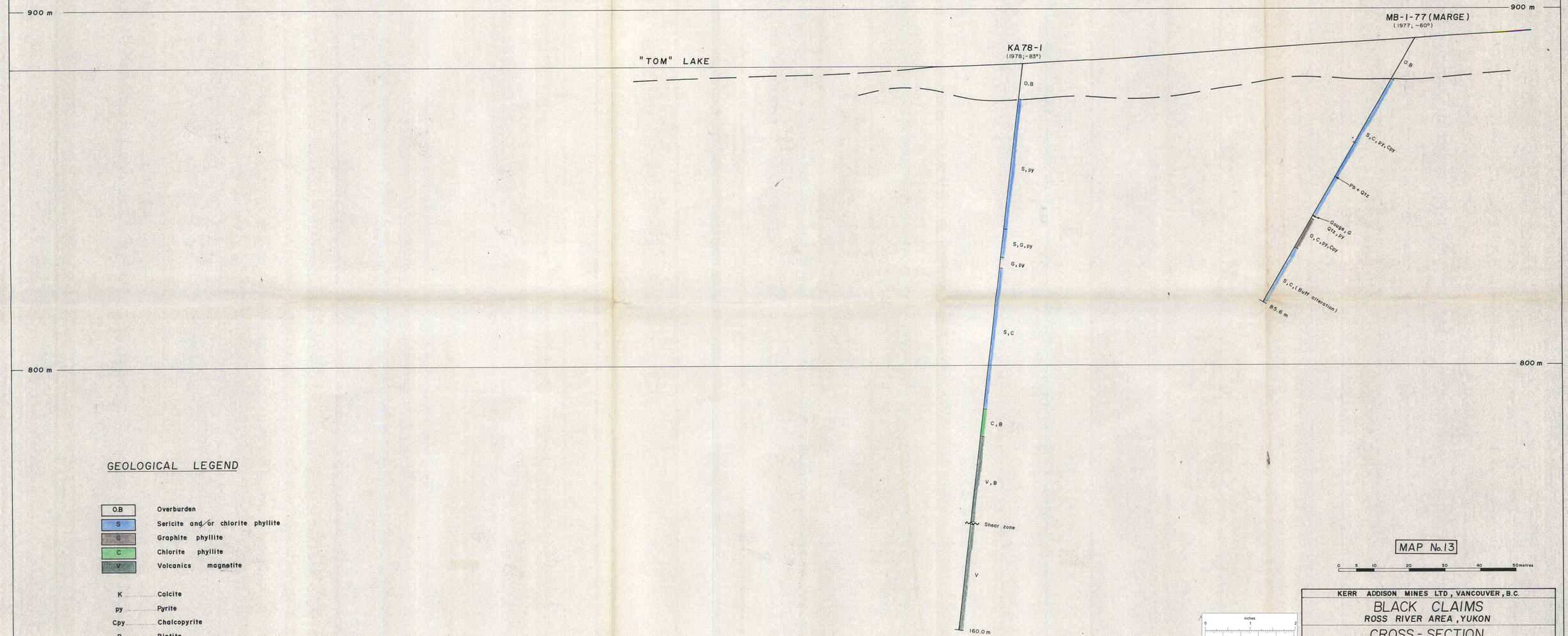
This reference scale bar added to the original by the Yukon Geological Survey. If the image is reduced or enlarged in scale at the same rate as the image, therefore it can be used as a reference for the original size.

KERR ADDISON MINES LTD, VANCOUVER, B.C.

BLACK CLAIMS
ROSS RIVER AREA, YUKON

CROSS-SECTION
LINE 10 S, LOOKING NW

SCALE — 1: 500 m
DRAWN BY: P. HAILLOT
DATE : NOVEMBER, 1978
DATA : W. MURTON, F. CHOW



GEOLOGICAL LEGEND

O.B	Overburden
S	Sericite and/or chlorite phyllite
G	Graphite phyllite
C	Chlorite phyllite
V	Volcanics magnetite

K	Calcite
py	Pyrite
Cpy	Chalcopyrite
B	Biotite

MAP No. 13

0 5 10 20 30 40 50 metres

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

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it is accurate for reference for the original size.

YUKON GEOLOGICAL SURVEY

KERR ADDISON MINES LTD, VANCOUVER, B.C.

BLACK CLAIMS

ROSS RIVER AREA, YUKON

CROSS-SECTION

LINE 15 S, LOOKING NW

SCALE – 1:500 metres	DATE : NOVEMBER, 1978
DRAWN BY: P. HAILLOT	DATA : W. MURTON, F. CHOW.