

LOG NO:	SEP 03 1993	RD.
ACTION:		
FILE NO:		

1992 - 93, GEO-CHEM SURVEY RESULTS AND TRENCHING

AND

FILMED

SELECTED ROCK SAMPLING AND ASSAY RESULTS.

ON - THE VAD GROUP MINERAL CLAIMS

THE GOLDEN MINING DIVISION, GOLDEN, B.C.

NTS MAP: M82K/15W

Lat. 50 Deg. 55 Min.

Long. 116 Deg. 55 Min.

for

James S. Adamson, Owner of the VAD MINERAL GROUP,
Calgary, Alberta.

208621

Report prepared by William D. van der Lee, P. Eng.
Aug. 23, 1993.

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

22,986

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INCLUSIONS :-

INDEX MAP

GEO-CHEM MAP

ROCK TYPING REPORT

PROPERTY

The property consists of; one unpatented mineral claim containing 16 units, and 6 claims of one unit each, for a total of 22 units.

It is known as the VAD Mineral Group.

The VAD Mineral Group is owned by James Adamson of Calgary, Alta.

LOCATION AND ACCESS

The VAD Mineral Group is located between Crystalline and Conrad Creeks, and approximately 1000 meters south of the junction of Crystal and Vowell Creeks.

The claim group is 56km from Parsons, B.C., and is accessible by an all-weather road. Parsons is served by Highway 97 and the CPR.

The property is on the west slope of the Vowell Creek valley at an elevation of 1300 to 2000 meters. Some of the property is accessible by 4 wheel drive vehicles over existing logging trails.

Although the valley is heavily timbered about a third of the claim area has been logged.

ECONOMIC GEOLOGY

The VAD mineral group is an interesting prospect as it appears to be on strike with the Columbia River mines property to the north-west. Columbia River Mines was in operation during the 1970's and shipped lead-silver concentrates to the smelter.

GEOLOGY

The VAD Claims are in the Purcel Range, in the area that was mapped by J.E. Reesor, (G.S.C.) Map 12, 1957, (Lardeau Half).

The claims are underlain by rock of the Horsethief Creek Series, which consist of argillite, quartzite, pebble conglomerate and limestone of the late precambrian. The mineralization appears to come from a large stock of granodiorite of the Mesozoic age which lies to the southeast. There are several folds in the area with dips of approximately 25 degrees. The ore body at Columbia River Mines occurs in such a synclinal fold within a limestone band.

The VAD property has few outcroppings due to heavy overburden in the area, and it is only recently that forestry roads have exposed some of the underlying rock.

INTRODUCTION

An effort was made to tie our geo-chem surveys over the last four years with the structural geology done by others past and present in the area surrounding the VAD Group. From our considerable library of maps of this area we have attempted to piece together a general conception of the anticline-syncline structure of the area which includes the VAD Group, and the AB and Mine Quest claims to the NW. While gaps do exist between known geological surveys, the position and configuration of the syncline-anticline exposures at both sides of the gap areas and their direction of orientation, seem to make these link ups the only reasonable conclusion. Road building in the last two or three years at the lower levels of the mountain has stripped the overburden and exposed the structure where it could only be guessed at before. Cominco and others have undertaken geological surveys along these exposed areas which has allowed the geological data from further up the slope to be extended to the base of the mountain.

We now feel that there are three predominant anticline-syncline structures which enter the VAD Group from the NW. This season's geo-chem, trenching and rock typing was carried out with this in mind and has shown some interesting results.

GEO-CHEM SURVEY AND TRENCHING REPORT

In order to follow up on this structural concept a geo-chem line was run along another new road to the east and south of the existing switchback road. This survey should cut through the 'mid' anticline syncline structure near the base of the mountain. Considerable hand trenching was necessary to expose the bank of the road for sampling. The results of this survey were interesting in that they show higher than normal mineralization over a width of 100 meters on the north end of the line and 11 meters on the south portion. This result seems to bear out our concept of the structure underlying the claims and also shows an extension of the mineralization from above which was evident in the 1991-2 geo-chem survey. Another geo-chem line was run (May 26-27/ 93) along the west boundary of the VAD-1 claim to determine whether the original mineralization on the VAD-1 continues to the NW to join up with the mineralization on the west side of Crystalline Creek. This line showed above normal readings in two locations to the NW. Another geo-chem line was run to the east of the original showing on the VAD-1 to try and intersect the north anticline-syncline at the base of the mountain but overburden was probably too heavy to show any mineralization.

All the above samples were assayed by Loring Laboratories Ltd., in Calgary, Alberta.

CHANNEL SAMPLING AND ROCK TYPING

A trench was dug in the soft mineralized shales at the base of the mineralized zone located on the 1100S line between 125W and

225W to get a channel sample for mineral content. The results were encouraging and are shown in the assay section of this report. Mr. Bruce Downing P. Geol., spent Sept 26/92 on the property typing the rock outcrops and sampling. The samples were assayed at the Acme Analytical Laboratories in Vancouver, and the results are included as part of this report.

CONCLUSIONS AND RECOMMENDATIONS

The mineralization established by the geo-chem sampling on the west side of the of Crystalline Creek in the 1992-3 season should be also be sampled for gold. If good gold values are present then this line should be extended to the south and all samples assayed for gold.

The geo-chem line running along the VAD-1- west claim line should be continued to the north and south of its present location and both this years samples and any samples from future extensions assayed for gold. This should cross the other anti-cline syncline structures that appear to enter our properties from the NW. An EM Survey and an expanded Magnetometer Survey should also be considered at this time.

SUMMARY

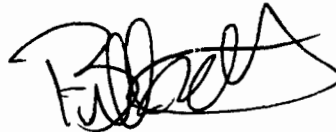
An analysis of past and present geological mapping and the 1992-3 seasons trenching and geo-chem surveys seems to confirm that the known mineralized zones to the NW. do in fact enter the VAD claims. The rock typing and resulting ICPEs analysis indicates good mineralization throughout much of the claim area.

A channel sample taken from a trench in the mushy leached shales indicated interesting lead, zinc, silver mineralization.

C E R T I F I C A T E

This is to certify that I, William D. van der Lee :

1. Am a resident of Calgary, Alberta, 1416 Colleen Ave. S.W. Calgary, Alberta. T2V 2R5
2. Am a graduate of the University of Alberta, B.Sc. in Civil Eng. (1980)
3. Have visited the VAD Group Claims during the 1992-93 reporting season.
4. Have authorized this report after examination of the field data and the G.S.C. Reports pertaining to the area.



William D. van der Lee, P. Eng

STATEMENT OF COSTS FOR THE VAD MINERAL GROUP CLAIMS, (22 UNITS)
FOR 1992-3.

Claim VAD Mineral Group Claims - 22 units.

Map No. 82K/15W.

MI. Rec. Nos. 213436, 213570 - 572, 213725 - 727.

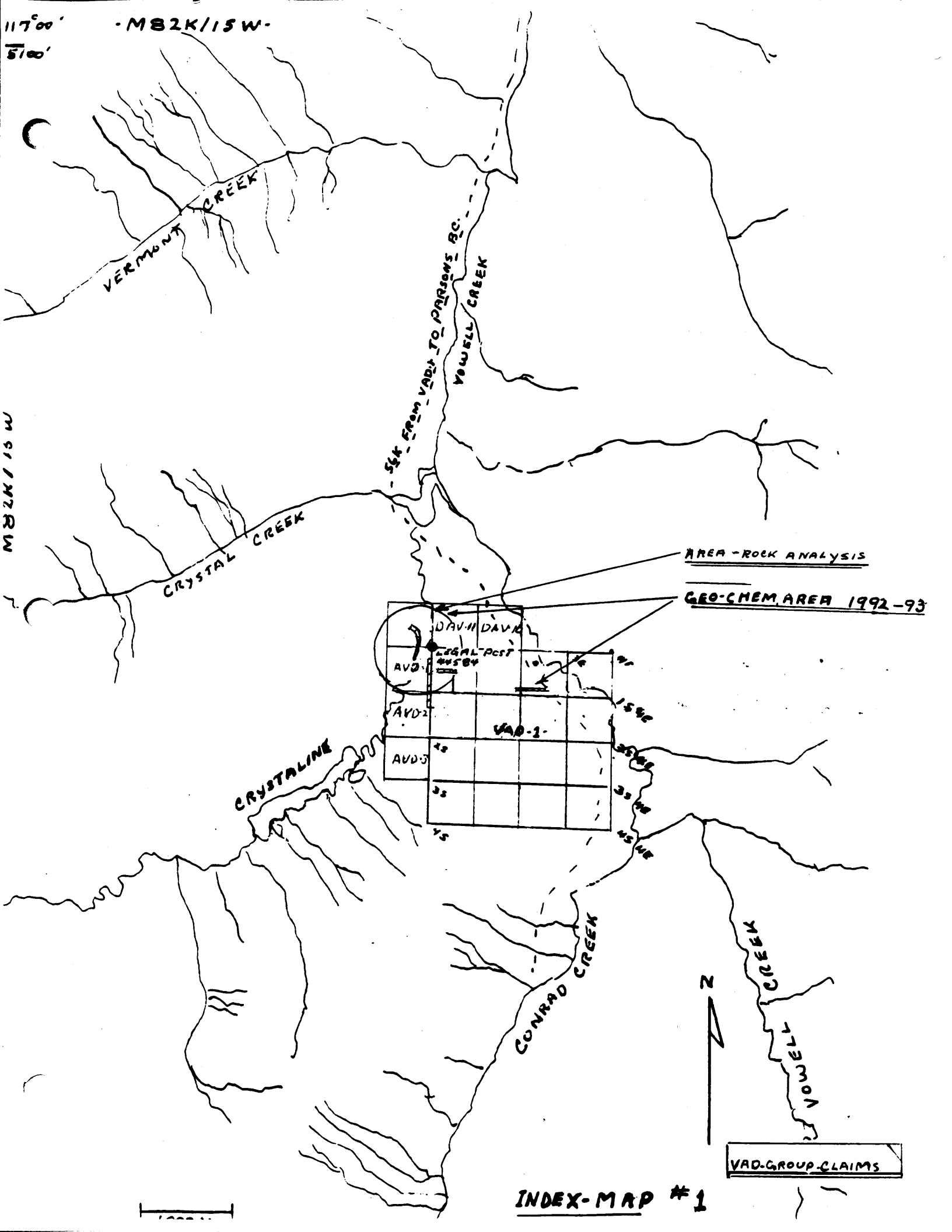
Rec. Nos. 1893, 2050, 2051, 2052, 2205 2206 2207.

These Claims were recorded at Golden, B.C. :- VAD 1, on July 6/88,
- AVD 1, 2, 3, on Sept. 16/89, - DAV 1, 2, 3, on July 18/90.

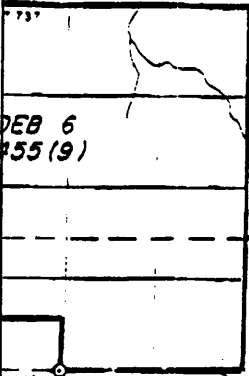
Geo-chem and Rock Assays	1050.00
Geo-chem Sampling, Rock Typing, Trenching. 16 days @ 90.00 per day	1440.00
Board 16 days at 20.00 per day	320.00
Flagging, bags, and supplies	68.00
Chain Saw - 8.00 per day - 6 days	48.00
4 X 4 - 40.00 per day - 6 days	240.00
Travel in B.C. - 50.00 - 4 trips	200.00
Copies of reports and maps	50.00
Preparing Reports	250.00
 Total Costs	 3666.00

117°00' - M82K/15W -
5100'

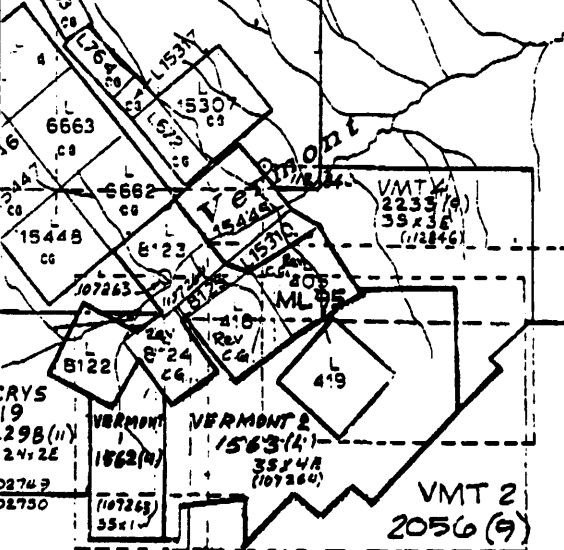
M82K/15W



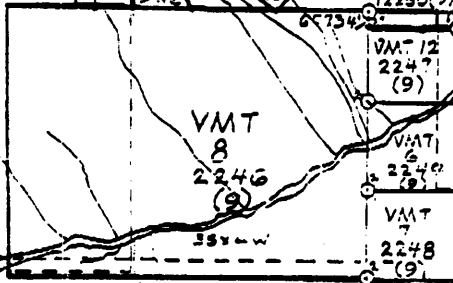
117°00'
51°00'
M82K 15W



VMT 1
2055 (9)
55x4W

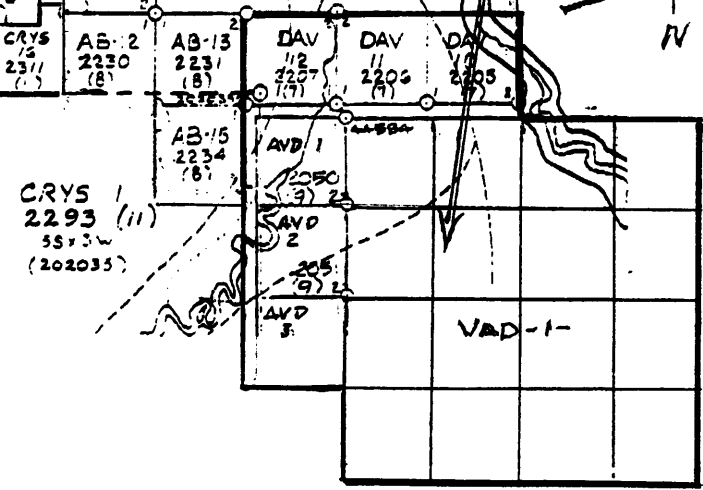


CRYS 20
2299 (11)
55x3E



CRYS 3
2295 (11)
4Nx5W

CRYS 1
2293 (11)
55x3W
(202035)



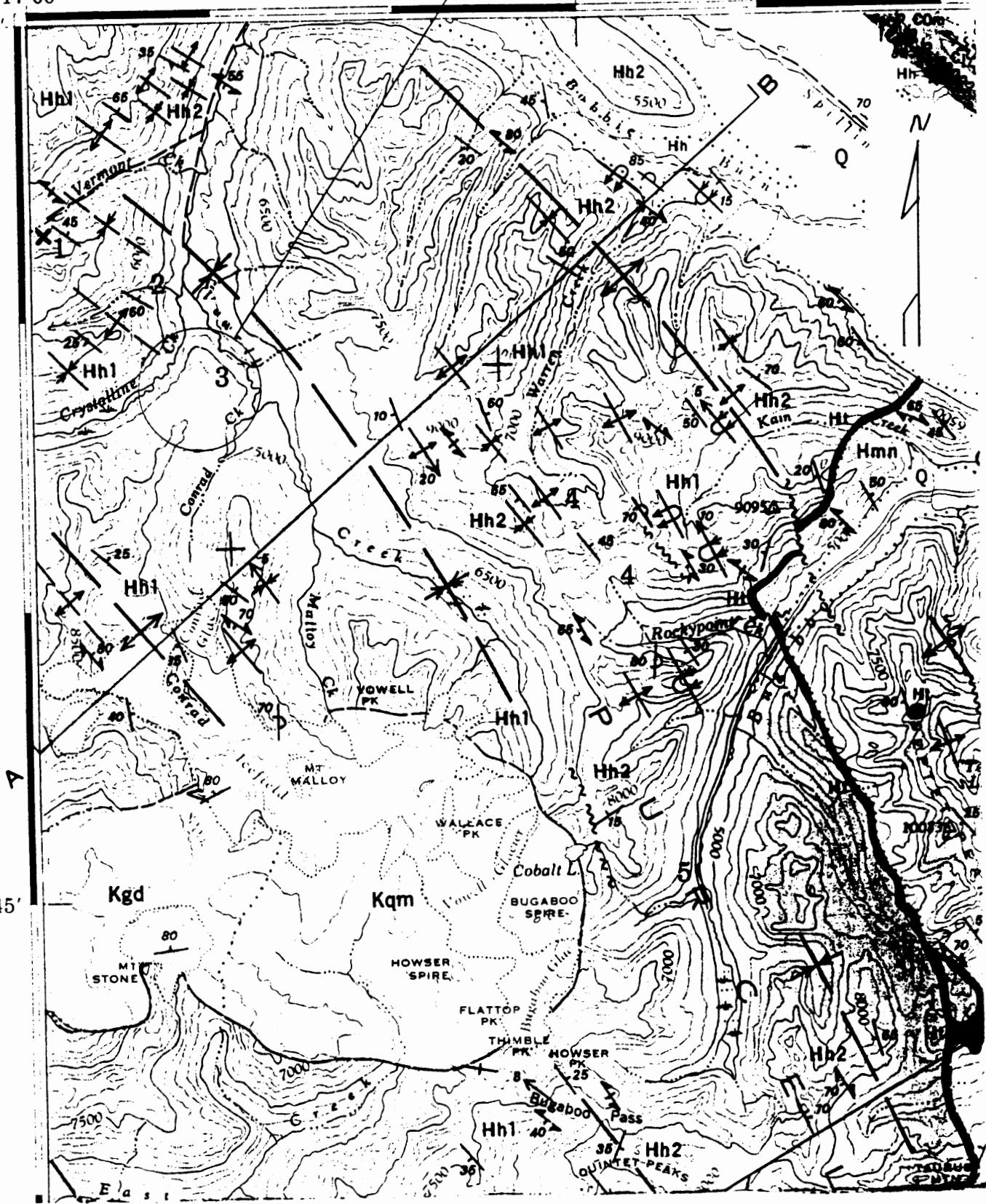
VAD-MINERAL GROUP

500M

CLAIM MAP # 2

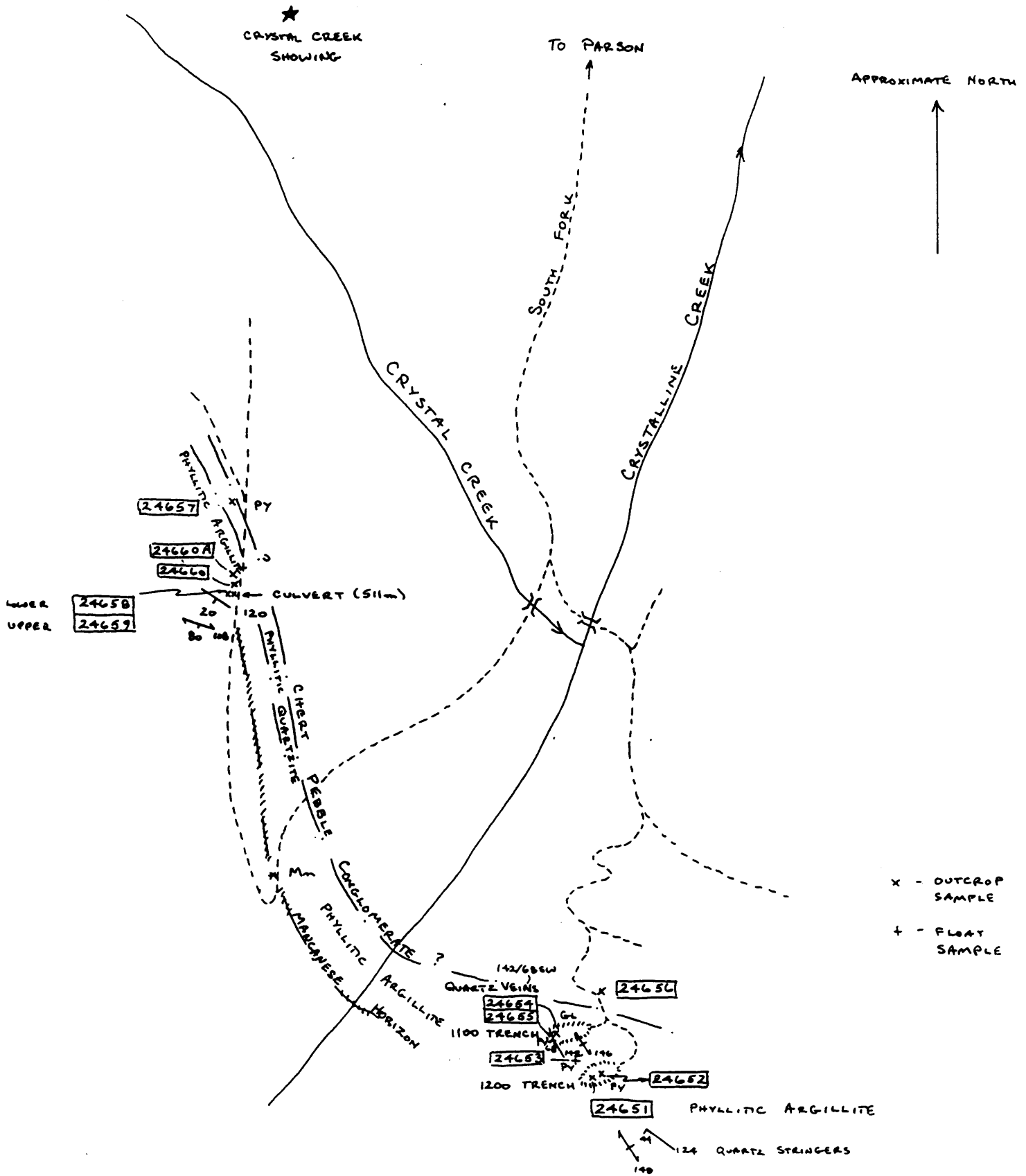
117.00'
51°00'

VAD GROUP CLAIMS
45'



GEOLOGICAL MAP #3

4000 M



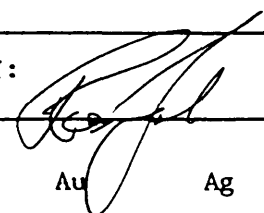
CRYSTAL CREEK AREA
 SAMPLE LOCATION PLAN
 SKETCH (NOT TO SCALE)

SAMPLING BY: B. DOWNING, G. ALLEN, R. ZA
 SEPT. 26, 1992

VMT Property Exam PROJECT () : ROCK SAMPLE DESCRIPTION

SAMPLE NO.: 24651	TRAVERSE NO. AND/OR COLLECTOR: G. ALLEN	LOCATION: CRYSTAL CREEK AREA.	DATE COLLECTED: Sept. 26/92					
MATERIAL SAMPLED: ROCK - OUTCROP [<input checked="" type="checkbox"/>] SILT [] SOIL [] OTHER _____ - FLOAT []								
ROCK SAMPLE TYPE: GRAB [<input checked="" type="checkbox"/>] CHIP [] CHANNEL [] (SAMPLE WIDTH _____)								
OCCURRENCE SIZE:								
ROCK NAME: <i>Phyllite</i>								
SAMPLE DESCRIPTION: (If Rock, Include Colour, Texture, Rock Forming Minerals, Mineralization, and Etc.) <i>Intermittent chip across ~2m of dark gray poorly consolidated phyllite that is cut by ~5% quartz stringers ≤ 1cm. Strong limonitic stain</i>								
DESCRIPTION BY: <i>[Signature]</i>								
ANALYSES: Geochemical Assay	Au _____ _____	Ag _____ _____	As _____ _____	Cu _____ _____	<u>Other</u> _____ _____	_____ _____	_____ _____	_____ _____

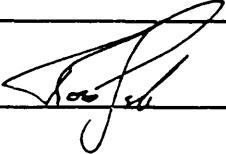
VMT Property Exam PROJECT () : ROCK SAMPLE DESCRIPTION

SAMPLE NO.: 24652	TRAVERSE NO. AND/OR COLLECTOR: G. Allen B. Downing	LOCATION: 1200 TRENCH VAD CLAIMS (?)	DATE COLLECTED: Sept. 26/92
MATERIAL SAMPLED: ROCK - OUTCROP <input checked="" type="checkbox"/>] SILT []] SOIL []] OTHER _____ - FLOAT []]			
ROCK SAMPLE TYPE: GRAB <input checked="" type="checkbox"/>] CHIP []] CHANNEL []] (SAMPLE WIDTH _____)			
OCCURRENCE SIZE:			
ROCK NAME: Phyllitic Wacke.			
SAMPLE DESCRIPTION: (If Rock, Include Colour, Texture, Rock Forming Minerals, Mineralization, and Etc.) <i>A dark grey, fine grained moderately foliated phyllite. Rock forming minerals are ≈ equal amounts of quartz and biotite and probably a minor amount (≈10%) feldspar. Mineralization present consists of pyrite in euhedral form up to 8mm across occupying ≈2-3% of the rock. Galena is present as much finer grains in trace quantities.</i>			
DESCRIPTION BY: 			
ANALYSES:	Au	Ag	As
			Cu
			<u>Other</u>
Geochemical	_____	_____	_____
Assay	_____	_____	_____

VMT Property Exam

PROJECT () :

ROCK SAMPLE DESCRIPTION

SAMPLE NO.: 24653	TRAVERSE NO. AND/OR COLLECTOR: G. ALLEN	LOCATION: Below 1200 on the VAD claims.	DATE COLLECTED: Sept. 26/92		
MATERIAL SAMPLED: ROCK - OUTCROP [] SILT [] SOIL [] OTHER _____ - FLOAT [✓]					
ROCK SAMPLE TYPE: GRAB [✓] CHIP [] CHANNEL [] (SAMPLE WIDTH _____)					
OCCURRENCE SIZE:					
ROCK NAME: Quartz vein					
SAMPLE DESCRIPTION: (If Rock, Include Colour, Texture, Rock Forming Minerals, Mineralization, and Etc.) Rusty weathering quartz with ≈5% euhedral pyrite ≤ 5mm across The rock has a vuggy, or open space character to it with numerous well developed crystal faces & prisms lining the interiors of the cavities.					
DESCRIPTION BY: 					
ANALYSES:	Au	Ag	As	Cu	<u>Other</u>
Geochemical	_____	_____	_____	_____	_____
Assay	_____	_____	_____	_____	_____

VMT Property Exam PROJECT () : ROCK SAMPLE DESCRIPTION

SAMPLE NO.: 24654	TRAVERSE NO. AND/OR COLLECTOR: G. ALLEN B. DOWNING	LOCATION: <i>VAD CLAIMS</i> <i>S.W. END of 1100 TRENCH</i>	DATE COLLECTED: <i>Sept. 26/92</i>
MATERIAL SAMPLED: ROCK - OUTCROP <input checked="" type="checkbox"/> SILT [] SOIL [] OTHER _____ - FLOAT []			
ROCK SAMPLE TYPE: GRAB <input checked="" type="checkbox"/> CHIP [] CHANNEL [] (SAMPLE WIDTH _____)			
OCCURRENCE SIZE: <i>3-5 cm wide</i>			
ROCK NAME: <i>Quartz vein</i>			
SAMPLE DESCRIPTION: (If Rock, Include Colour, Texture, Rock Forming Minerals, Mineralization, and Etc.) <i>Quartz vein with ~50% Galena and minor amounts of pyrite</i>			
DESCRIPTION BY: <i>R. J. [Signature]</i>			
ANALYSES:	Au	Ag	As
			Cu
			<u>Other</u>
Geochemical	_____	_____	_____
Assay	_____	_____	_____

VMT Property Exam PROJECT () : ROCK SAMPLE DESCRIPTION

SAMPLE NO.: 24655	TRAVERSE NO. AND/OR COLLECTOR: G. ALLEN	LOCATION: VAD CLAIMS. S.W. END of 1200 TRENCH	DATE COLLECTED: Sept. 26/92		
MATERIAL SAMPLED: ROCK - OUTCROP <input checked="" type="checkbox"/> SILT <input type="checkbox"/> SOIL <input type="checkbox"/> OTHER _____ - FLOAT <input type="checkbox"/>					
ROCK SAMPLE TYPE: GRAB <input checked="" type="checkbox"/> CHIP <input type="checkbox"/> CHANNEL <input type="checkbox"/> (SAMPLE WIDTH _____)					
OCCURRENCE SIZE:					
ROCK NAME: Quartz Vein					
SAMPLE DESCRIPTION: (If Rock, Include Colour, Texture, Rock Forming Minerals, Mineralization, and Etc.) Quartz vein with \approx 10% fine to coarse grained pyrite and \approx 5% fine to medium grained (*galena) The sulfides are concentrated but not exclusive to \approx 5mm bands parallel(?) to strike of the vein. Also open or cavities lined with subhedral quartz crystal faces are present. These cavities are aligned parallel to the sulfide banding.					
* NOTE: Grey sulphide has conchoidal fracture \therefore probably not galena. Jim said the vein has 120 oz Ag \therefore probably tetrahedrite (freibergite)					
DESCRIPTION BY: G.A.					
ANALYSES:	Au	Ag	As	Cu	Other
Geochemical	_____	_____	_____	_____	_____
Assay	_____	_____	_____	_____	_____

VMT Property Exam PROJECT () : ROCK SAMPLE DESCRIPTION

SAMPLE NO.: <i>24656</i>	TRAVERSE NO. AND/OR COLLECTOR: <i>G. Allen B. Downing</i>	LOCATION: <i>VAD Claims</i> <i>Road to the 1200 Trench</i>	DATE COLLECTED: <i>Sept. 26/92</i>
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MATERIAL SAMPLED:

ROCK - OUTCROP SILT SOIL OTHER _____

- FLOAT

ROCK SAMPLE TYPE:

GRAB CHIP CHANNEL (SAMPLE WIDTH _____)

OCCURRENCE SIZE:

ROCK NAME: *Quartz Pebble Conglomerate*

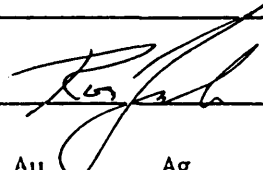
SAMPLE DESCRIPTION: (If Rock, Include Colour, Texture, Rock Forming Minerals, Mineralization, and Etc.)

The rock is ≈ 75% fine to coarse grained sub-rounded quartz grains. The rock is strongly foliated with a phyllitic luster. It is a light grey in color with occasional light green areas probably representing a weak chlorite alteration. Also present are "speckles" of rusty weathering iron carbonate (?)

DESCRIPTION BY:

ANALYSES:	Au	Ag	As	Cu	<u>Other</u>
Geochemical	_____	_____	_____	_____	_____
Assay	_____	_____	_____	_____	_____

VMT Property Exam PROJECT () : ROCK SAMPLE DESCRIPTION

SAMPLE NO.: 24657	TRAVERSE NO. AND/OR COLLECTOR: G. ALLEN	LOCATION: VAD CLAIMS "0"m S.W. SIDE OF CRYSTAL CRK.	DATE COLLECTED:
MATERIAL SAMPLED: ROCK - OUTCROP [<input checked="" type="checkbox"/>] SILT [] SOIL [] OTHER _____ - FLOAT []			
ROCK SAMPLE TYPE: GRAB [<input checked="" type="checkbox"/>] CHIP [] CHANNEL [] (SAMPLE WIDTH _____)			
OCCURRENCE SIZE:			
ROCK NAME: SANDSTONE			
SAMPLE DESCRIPTION: (If Rock, Include Colour, Texture, Rock Forming Minerals, Mineralization, and Etc.) - a weakly phyllitic sandstone, medium grained with a whitish grey appearance. 5-7% medium grained euhedral pyrite crystals are weathering out giving the rock a weakly gossanous appearance.			
DESCRIPTION BY: 			
ANALYSES:	Au	Ag	As
			Cu
			Other
Geochemical	_____	_____	_____
Assay	_____	_____	_____

VMT Property Exam. PROJECT () : ROCK SAMPLE DESCRIPTION

SAMPLE NO.: 24658	TRAVERSE NO. AND/OR COLLECTOR: G. Allen R. ZAWADA	LOCATION: V10 CLAIMS on Road Near Culvert @ 511m Lower Mn. BED	DATE COLLECTED: Sept. 26 1972
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MATERIAL SAMPLED:
ROCK - OUTCROP SILT [] SOIL [] OTHER _____
- FLOAT []

ROCK SAMPLE TYPE:
GRAB [] CHIP CHANNEL [] (SAMPLE WIDTH 1m)

OCCURRENCE SIZE:

ROCK NAME: **MANGANESE**

SAMPLE DESCRIPTION: (If Rock, Include Colour, Texture, Rock Forming Minerals, Mineralization, and Etc.)

Unconsolidated Manganese rich bed

DESCRIPTION BY:

ANALYSES:	Au	Ag	As	Cu	Other
Geochemical	_____	_____	_____	_____	_____
Assay	_____	_____	_____	_____	_____

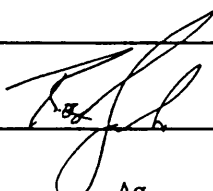
VMT Property Exam PROJECT () : ROCK SAMPLE DESCRIPTION

SAMPLE NO.: 24659	TRAVERSE NO. AND/OR COLLECTOR: G. ALLEN	LOCATION: VAD Claims On ROAD NEAR Culvert 511m Upper MN bed	DATE COLLECTED: Sept. 26/92		
MATERIAL SAMPLED: ROCK - OUTCROP <input checked="" type="checkbox"/> SILT <input type="checkbox"/> SOIL <input type="checkbox"/> OTHER _____ - FLOAT <input type="checkbox"/>					
ROCK SAMPLE TYPE: GRAB <input type="checkbox"/> CHIP <input checked="" type="checkbox"/> CHANNEL <input type="checkbox"/> (SAMPLE WIDTH ~25 cm)					
OCCURRENCE SIZE:					
ROCK NAME: Manganese					
SAMPLE DESCRIPTION: (If Rock, Include Colour, Texture, Rock Forming Minerals, Mineralization, and Etc.) Unconsolidated Manganese Rich Bed.					
DESCRIPTION BY: [Signature]					
ANALYSES:	Au	Ag	As	Cu	<u>Other</u>
Geochemical	_____	_____	_____	_____	_____
Assay	_____	_____	_____	_____	_____

VMT PROPERTY EXAM PROJECT () : ROCK SAMPLE DESCRIPTION

SAMPLE NO.: <i>24660</i>	TRAVERSE NO. AND/OR COLLECTOR: G. ATHER B. DOWNING	LOCATION: <i>VAD CLAIMS</i> <i>ON ROAD NEAR CULVERT 490m</i>	DATE COLLECTED: <i>Sept. 26/92</i>		
MATERIAL SAMPLED: ROCK - OUTCROP [<input checked="" type="checkbox"/>] SILT [<input type="checkbox"/>] SOIL [<input type="checkbox"/>] OTHER _____ - FLOAT [<input type="checkbox"/>]					
ROCK SAMPLE TYPE: GRAB [<input checked="" type="checkbox"/>] CHIP [<input type="checkbox"/>] CHANNEL [<input type="checkbox"/>] (SAMPLE WIDTH _____)					
OCCURRENCE SIZE:					
ROCK NAME: <i>Phyllitic Wacke!</i>					
SAMPLE DESCRIPTION: (If Rock, Include Colour, Texture, Rock Forming Minerals, Mineralization, and Etc.) <i>fine grained strongly foliated medium to dark grey rock</i> <i>Bit to sericite + quartz are major minerals with 10-15% of</i> <i>exposed surface covered by iron carbonate stain.</i>					
DESCRIPTION BY:					
ANALYSES:	Au	Ag	As	Cu	<u>Other</u>
Geochemical	_____	_____	_____	_____	_____
Assay	_____	_____	_____	_____	_____

VMT Property, Gram PROJECT () : ROCK SAMPLE DESCRIPTION

SAMPLE NO.:	TRAVERSE NO. AND/OR COLLECTOR:	LOCATION:	DATE COLLECTED:
24660A	G. Allen B. Downing	VAD Claims	Sept. 26/92
MATERIAL SAMPLED:			
ROCK - OUTCROP [<input checked="" type="checkbox"/>] SILT [] SOIL [] OTHER _____			
- FLOAT []			
ROCK SAMPLE TYPE:			
GRAB [<input checked="" type="checkbox"/>] CHIP [] CHANNEL [] (SAMPLE WIDTH _____)			
OCCURRENCE SIZE:			
ROCK NAME: <i>Phyllitic Argillite</i>			
SAMPLE DESCRIPTION: (If Rock, Include Colour, Texture, Rock Forming Minerals, Mineralization, and Etc.)			
<i>A very fine grained charcoal grey rock, strongly foliated with a strong phyllitic lustre. The rock contains ≈ 2% iron carbonate (?) found as ≤ 1 mm rusty weathering cherts or less often as thin 2-5 mm long lenses parallel to foliation</i>			
DESCRIPTION BY: 			
ANALYSES: Au Ag As Cu <u>Other</u>			
Geochemical	_____	_____	_____
Assay	_____	_____	_____



GEOCHEMICAL ANALYSIS CERTIFICATE



Granges Inc. PROJECT VMT-CRYSTAL 92-1 File # 92-3482
 2300 - 885 W. Georgia St., Vancouver BC V6C 3E8 Submitted by: GORDON ALLEN

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb	Hg ppb
24650-X Congl.	1	9	165	216	2	25	9	710	2.18	1477	5	ND	4	61	11.0	3	2	2	1.96	.013	3	25	.66	76	.01	3	.15	.01	.08	1	26	450
24651-X	2	111	1583	1487	17.3	49	20	4529	12.73	1205	5	ND	7	7	7.1	63	22	3	.03	.051	10	5	.03	35	.01	5	.18	.01	.11	36	220	95
24652-X	1	331	7557	23906	31.5	47	30	6337	5.14	350	5	ND	4	64	211.2	190	2	2	5.49	.011	2	3	2.00	18	.01	2	.17	.01	.10	1	120	80
24653-X	4	182	714	271	10.3	14	1	133	4.72	889	5	ND	1	4	2.3	75	10	1	.07	.005	2	21	.01	21	.01	2	.03	.01	.01	607	170	40
RE 24658-X Mn	1	396	11567	783	41.9	47	17	7012	7.43	794	5	ND	5	29	8.1	1014	2	3	.98	.401	7	1	.05	24	.01	2	.25	.01	.09	400	-	60
24654-X	1	14241	24468	7779	310.4	1	1	273	3.19	22069	5	22	1	12	145.4	22872	2	1	.05	.003	2	1	.01	14	.01	2	.02	.01	.01	1	8390	2500
24655-X	1	3692	2764	666	261.2	8	3	238	6.57	2340	5	3	1	3	12.4	2785	8	1	.01	.010	2	2	.01	6	.01	2	.05	.01	.02	35	820	350
24656-X Congl	1	34	157	204	2.1	29	8	374	2.70	41	5	ND	9	3	11.8	25	2	4	.06	.013	8	7	.23	11	.01	2	.43	.02	.05	1	11	50
24657-X	1	15	931	65	17.9	11	2	20	1.99	477	5	ND	3	2	2	85	2	1	.01	.005	7	26	.01	14	.01	2	.16	.01	.09	4	49	5
24658-X Mn	1	383	11249	762	40.6	45	17	6710	7.17	759	5	ND	5	29	8.1	987	2	3	.95	.389	7	1	.04	23	.01	2	.24	.01	.09	387	140	50
24659-X Mn	2	32	143	2528	1.8	451	196	64134	11.96	127	11	ND	8	106	29.8	9	2	1	.44	.190	16	9	.05	138	.01	2	.21	.01	.09	1	10	45
24660-X	1	45	22	107	2	68	20	384	5.21	83	6	ND	10	6	3	2	2	4	.07	.018	12	10	.09	15	.01	2	.27	.03	.12	1	1	10
24660A	1	62	261	131	3.8	65	10	591	4.79	34	5	ND	11	8	5	30	2	11	.42	.011	6	41	1.15	25	.01	2	1.91	.02	.10	1	8	20
STANDARD C/AU-R	18	59	38	131	7.6	71	31	1044	3.96	42	16	7	40	52	18.8	14	20	57	.50	.086	39	60	.94	182	.09	35	1.88	.06	.14	11	460	1400

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
 - SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. HG ANALYSIS BY FLAMELESS AA.
 Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: OCT 2 1992 DATE REPORT MAILED: *Oct 9/92* SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

OCT-09-1992 16:32

FROM HONE ANALYTICAL

TO GRANGES INC. VHN

P. 002/002

To: MR. JIM ADAMSON,
 539 - 47th Avenue S.W.,
 Calgary, Alberta
 T2J 1C5

File No. 35853
 Date June 15, 1993
 Samples Rock/Soil



Certificate of Assay LORING LABORATORIES LTD.

Page # 1

SAMPLE NO.	PPM Ag	PPM Pb	PPM Zn
------------	-----------	-----------	-----------

Geochemical Analysis

VAD CHANNEL 1100S
 EAST TO WEST

WO- 2 M E	2.5	411	544
WO- 2 4 E	9.4	1512	2040
WO- 4 - 6 E	25.1	3370	410
WO- 6 - 8.2 E	28.2	1085	658
WO- 8.2-10 E	2.4	292	280
WO-10 -13.8 E	0.8	73	249
WO-13.8-16.9 E	2.0	233	545
WO-16.9-19.6 E	8.6	828	1525
WO-19.6-22 E	17.2	606	2400
WO-22 -24.2 E	5.4	369	4160
WO-24.2-26.4 E	38.9	1554	3910
WO-26.4-28.1 E	9.2	1066	3070
WO-28.1-31.1 E	0.6	39	755

I Hereby Certify that the above results are those
 assays made by me upon the herein described samples....

Rejects retained one month.
 Pulps retained one month
 unless specific arrangements
 are made in advance.


 Assayer

To: MR. JIM ADAMSON,
539 - 47th Avenue S.W.,
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T2J 1C5

File No. 35853
Date June 15, 1993
Samples Rock/Soil



Certificate of Assay LORING LABORATORIES LTD.

Page # 2

SAMPLE NO.	PPM Ag	PPM Pb	PPM Zn
------------	-----------	-----------	-----------

Geochemical Analysis

VAD WEST CLAIM LINE
0-330

0-S	1.9	20	52
15-S	0.1	36	97
30-S	0.2	20	47
45-S	<0.1	32	92
60-S	0.2	44	98
75-S	<0.1	20	85
90-S	0.6	12	83
105-S	0.6	23	69
120-S	1.3	12	45
135-S	0.5	20	39
150-S	3.0	28	79
165-S	0.6	21	65
180-S	1.8	54	56
195-S	5.6	120	158
210-S	4.5	212	465
225-S	0.6	38	102
240-S	0.2	27	104
225-S F Thummoe			
Hell Cl. Post Fit			
92-X	0.3	15	131
270-S	0.5	21	47
285-S	0.7	75	103
300-S	0.6	98	91
315-S	0.4	60	113
330-S to 1100S Line	0.4	73	148

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Certificate of Assay LORING LABORATORIES LTD.

Page # 3

SAMPLE NO.	PPM Ag	PPM Pb	PPM Zn
------------	-----------	-----------	-----------

biochemical Analysis

SOUTH SWITCH

No. 1 250M S Switch	9.4	6900	2390
No. 1 257M S Switch	0.4	35	56
No. 1 262M S Switch	0.1	31	58

I Hereby Certify that the above results are those assays made by me upon the herein described samples....

Objects retained one month.
Slips retained one month
unless specific arrangements
are made in advance.



Assayer

To: MR. JIM ADAMSON,
539 - 47th Avenue S.W.,
Calgary, Alberta
T2J 1C5

File No. 35853

Date June 15, 1993

Samples Rock/Soil



Certificate of Assay LORING LABORATORIES LTD.

Page # 4

SAMPLE NO.

PPM
Ag

PPM
Pb

PPM
Zn

Geochemical Analysis

0.7 MILES FROM ACCESS ROAD

0 -E Rd.	0.9	49	95
30M-E Rd.	0.2	49	106
60M-E Rd.	<0.1	14	48
90M-E Rd.	0.1	34	81
120M-E Rd.	0.1	18	86
150M-E Rd.	<0.1	16	70
180M-E Rd.	<0.1	13	200
210M-E Rd.	<0.1	14	131
240M-E Rd.	0.2	11	80

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Assayer

To: MR. JIM ADAMSON,
539 - 47th Avenue S.W.,
Calgary, Alberta
T2J 1C5

File No. 35853
Date June 15, 1993
Samples Rock/Soil



Certificate of Assay LORING LABORATORIES LTD.

Page # 1

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Pulps retained one month
unless specific arrangements
are made in advance.


Assayer

To: A & B RESOURCES,

539 - 47th Avenue S.W.,

Calgary, Alberta T2J 1C5

ATTN: Jim Adamson

File No. 35659

Date February 25, 1993

Samples Soil



Certificate of Assay LORING LABORATORIES LTD.

Page # 1

SAMPLE NO.	PPM Pb	PPM Zn	PPM Mn
------------	-----------	-----------	-----------

Geochemical Analysis

Spur Rd. to Crk.
From Parked Trucks

5M	46	99	358
Lower Spur Rd. 40M	44	25	374
Lower Spur Rd. 93M 1M Wide	15	119	1398
Lower Spur Rd. 104M	50	52	681
Lower Spur Rd. 112M Slates	66	70	604
Lower Spur Rd. 116M Slates	37	63	3000
L-140M	332	605	540
L-150M	116	58	151
L-160M	57	30	124
L-170M	432	252	321
L-180M	98	145	314
L-190M	231	82	170
L-200M	94	88	70
L-210M	386	269	354
L-220M	122	611	237
L-230M	40	127	276
L-240M	24	103	347
L-250M	21	110	181
L-260M	27	30	73
L-270M	37	61	418
L-280M	83	105	546
L-290M	44	58	358
L-300M	52	101	250
L-310M	74	66	457
L-320M	56	67	315

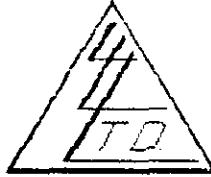
I Hereby Certify that the above results are those
assays made by me upon the herein described samples....

Samples retained one month.
Slips retained one month
unless specific arrangements
are made in advance.


Assayer

To: A & B RESOURCES,
539 - 47th Avenue S.W.,
Calgary, Alberta T2J 1C5

File No. 35659
Date February 25, 1993
Samples Soil



ATTN: Jim Adamson

Certificate of Assay LORING LABORATORIES LTD.

Page # 2

SAMPLE NO.	PPM Pb	PPM Zn	PPM Mn
L-330M	36	78	254
L-340M	70	49	459
L-350M	43	65	370
L-360M	69	73	298
L-370M	50	71	258
L-380M	47	78	608
L-382M	46	75	352
L-383M	41	63	737
L-384M	24	36	1320
L-385M	28	111	862
L-386M	29	21	2716
L-387M	53	71	+10000
Sample #1 Adit End of Road 389M	34	68	3650
Adit #1 End of Road 389M	286	65	3710
L Sp. Rd. L 392	32	96	3590
L Sp. Rd. L 395	45	128	8100

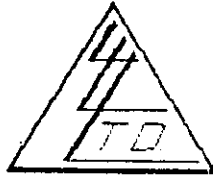
I Hereby Certify that the above results are those
assays made by me upon the herein described samples....

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Pulps retained one month
unless specific arrangements
are made in advance.


Assayer

To: MR. JIM ADAMSON,
539 - 47th Avenue S.W.,
Calgary, Alberta
T2J 1G5

File No. 35406
Date September 22, 1992
Samples Soil/Chip
VAD Claims



Certificate of Assay LORING LABORATORIES LTD.

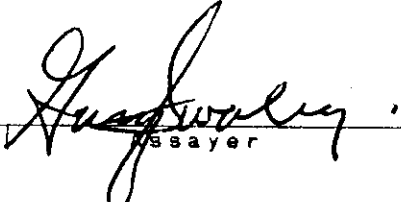
SAMPLE NO.	PPM Pb	PPM Zn	PPM Mn	PPM Cu
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Geochemical Analysis

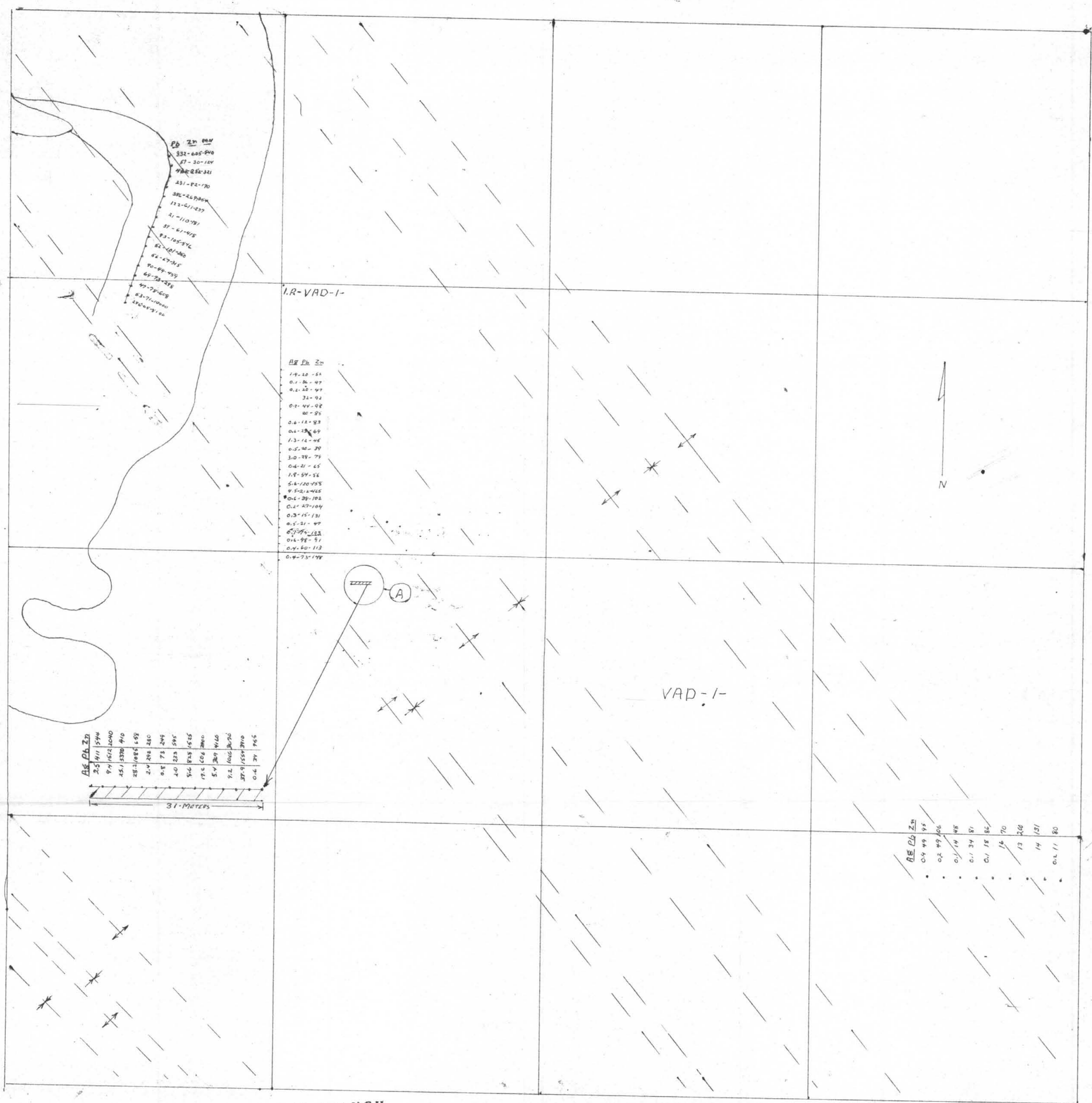
Sp. Rd 30 M End of Rd. Large Vein	16	56	735	33
L Sp. Rd Channel Sample 118-121 M	9	32	1930	17
Line 130 Left of Channel 10 M	11	63	790	20

I Hereby Certify that the above results are those assays made by me upon the herein described samples....

Reagents retained one month.
Pulps retained one month
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are made in advance.



Assayer



GEOLOGICAL BRANCH
ASSESSMENT REPORT
22,986

100 M

1 VAD MINERAL GROUP - GEO-CHEM 1992-3
 2 CHANNEL SAMPLE 1100S - 125W-TO-225W - (A)
 3 ANTI-CLINE-SYNCLINE STRUCTURES SHOWN ARE EXTENSIONS OF DATA FROM GEOLOGICAL MAPS PAST AND PRESENT.