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 MINING RECORDER
 MAYO, Y.T.
 I.A. & N.D.

Office of the Supervising Mining Recorder
 NOV 25 1980
 WHITEHORSE
 Yukon Territory

Geological Evolution
 This report has been
 forwarded to the Commission
 as a representation
 of the work under
 consideration for
 registration of
 claims under
 the Mining Act
 of the Yukon
 Territory

Commissioner of Yukon Territory

GEOLOGICAL REPORT

ANDY 1-32 CLAIMS
 N.T.S. 105-0-6
 63°17'W, 131°07'N

By: C. L. SMITH, P.Eng.

August 15-20, 1980

090833

090833

This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of

\$ 3,650.00

R. Dubicki

Resident Geologist or
Resident Mining Engineer

A. Reg. Geol.

June 19 18

08912
Considered as representation work under
Section 53 (4) Yukon Quartz Mining Act.

Commissioner of Yukon Territory

FROM: Mining Recorder at MAYO

TO: Supervising Mining Recorder at Whitehorse, Y.T.

FOR ACTION ARE:

NEW APPL'N for PLACER LEASE to PROSPECT: Name:

RENEWAL APPL'N PLACER LEASE to PROSPECT: Name: Lease No.

AFFIDAVIT of EXPENDITURE on PLACER LEASE. Name: Lease No.

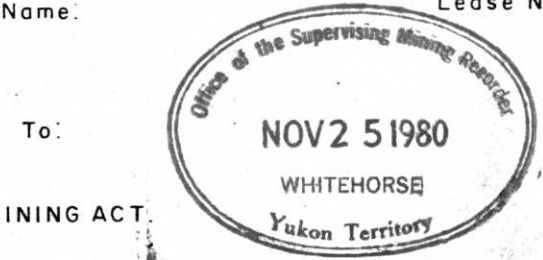
ASSIGNMENT of PLACER LEASE No.
From: To:

GROUPING APPL'N UNDER SEC. 52(2) PLACER MINING ACT.
Owner:

DIAMOND DRILL LOGS:
Claims: Claim sheet no:

QUARTZ ASSESSMENT REPORT:
Claims: "ANDY" 1-32 Claim sheet no. 105-0-6
Type of report: GEO. Submitted by: VENTURES WEST MINERALS LTD

Cls. work performed on: "ANDY" 1-32 \$ Reg. for ren. application \$3650⁰⁰



[Signature]
Signature

REPLY ACTION:

Date Ret.

090833

Signature

The stratigraphic section is possibly correlative with the Road River group and Canol formation of the Macmillan Pass area.

Beds strike eastwest and dips are steep to overturned.

Barite occurs as beds several feet thick in silvery weathering carbonaceous shale. The barite beds are massive to finely laminated in texture.

No lead-zinc mineralization was observed.

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LIST OF ILLUSTRATIONS

Figure 1. Andy 1. - 32 Claim Map	Pocket
Figure 2. Geological Map of Andy Claims Scale 1:5000	Pocket

I. Introduction

During the period August 15 - 20, 1980, the area of the Andy property was geologically mapped on a scale of 1:5000. A topographic base map was sketched from N.T.S. sheet 105-0-6 and mapping was conducted on air photographs.

Interest in the property developed as a result of previous work by another company in 1978. The company allowed their claims to expire and they were subsequently acquired by Ventures West Minerals Ltd. who currently holds the Andy 1-32 claims. The previous company discovered high lead and zinc geochemical silt valves in a small creek draining the central property area.

The list of claims is as follows:

<u>Grant Number(s)</u>	<u>Claim Name(s)</u>
YA - 41392	Andy No. 1
YA - 41393	Andy No. 2
YA - 41394	Andy No. 3
YA - 41395	Andy No. 4
YA - 41396	Andy No. 5
YA - 41397	Andy No. 6
YA - 41398	Andy No. 7
YA - 41399	Andy No. 8
YA - 41400	Andy No. 9
YA - 41401	Andy No. 10
YA - 41402	Andy No. 11
YA - 41403	Andy No. 12
YA - 41404	Andy No. 13
YA - 41405	Andy No. 14
YA - 41406	Andy No. 15
YA - 41407	Andy No. 16
YA - 41408	Andy No. 17
YA - 41409	Andy No. 18
YA - 41410	Andy No. 19
YA - 41411	Andy No. 20
YA - 41412	Andy No. 21
YA - 41413	Andy No. 22
YA - 41414	Andy No. 23
YA - 41415	Andy No. 24
YA - 41416	Andy No. 25
YA - 41417	Andy No. 26
YA - 41418	Andy No. 27
YA - 41419	Andy No. 28
YA - 41420	Andy No. 29
YA - 41421	Andy No. 30
YA - 41422	Andy No. 31
YA - 41423	Andy No. 32

Claims are held by Ventures West Minerals Ltd., # 619 - 475 Howe St. Vancouver, B.C. and the work reported herein was done for that company.

II. General Geology

Work conducted consisted of outcrop mapping, the results of which are shown on Figure 2.

The table of geological formations is as follows:

Devonian - Mississippian

3B"	Massive quartzose sandstone
3B'	Tan - weathering shale
3B	Silvery - weathering carbonaceous shale: interbedded black chert; minor barite
2	Chert pebble conglomerate

Ordovician - Silurian - Lower Devonian

RR'	Carbonaceous black shale
RR	Black shale; black fossiliferous limestone

The RR formation is believed to be correlative with Road River group strata which outcrop to the south in the Macmillan Pass area. The formation consists of pyritic fissile black shale, black carbonaceous shale, cherty shale and black fossiliferous limestone. Beds are massive and graptolites and other fossils are common in some locales.

The RR' formation consists of dark gray to black calcareous shale, cherty shale and black limestone. The formation lies stratigraphically above RR.

Unit 2 is massive chert pebble conglomerate which outcrops in steep bluffs on the south side of the property. The formation correlates with an extensive unit of distinct lithology which may be traced for several miles to the west and south of the property area. This unit is a marker bed in the Canol formation of the Macmillan Pass area.

Unit 3B is composed mainly of silvery-weathering carbonaceous black shale with interbedded black chert. The unit closely resembles the formation which is host to the important lead-zinc-barite mineralization at the Jason and Tom deposits near Macmillan Pass.

Unit 3B' is tan-weathering shale which appears to be less carbonaceous than 3B, which has a higher argillaceous content and which is distinguished by fine silt laminae.

Formation 3B" is massive bedded quartzose sandstone of light gray colour which crops out along the north side of the property. This unit resembles similar sandstones mapped as upper unit 3B in the Canol formation in the Macmillan Pass area.

The stratigraphic section described above has been tentatively correlated with the Road River group and the Canol formation of the Macmillan Pass area, and unit designations have been made which are believed reliable within the section.

Beds strike generally east-west and dips are steep to overturned. The cross-section in Figure 2, shows the structural interpretation. A prominent thrust fault appears to have brought unit 2 conglomerates onto the Road River formations along the south side of the map area.

Previous geochemical sampling showed a lead-zinc high in stream silts in the westerly flowing creek draining the area of unit 3B. The barite occurrence noted on Figure 2. may in some way be related to this anomalous drainage. The barite bed is several feet thick, is massive to finely laminated in texture, and appears to be conformable with bedding. The relationship between the geochemical high and the barite suggests the possibility of lead-zinc mineralization. Outcrop in the area is poor and no mineralization was seen. The exploration model should be that of the Jason and Tom deposits, where barite-hosted lead-zinc ore occurs in unit 3B - type black shales of the Canol formation.

III. Conclusions and Recommendations

The Andy property shows geological similarities with the Jason and Tom lead-zinc deposits at Macmillan Pass. Lead-zinc geochemical silt anomalies have been reported on a creek draining unit 3B. Unit 3B appears to be correlative with a similar formation which is host to mineralization at Macmillan Pass; mineralization there is barite-hosted and the presence of a bedded barite occurrence on the Andy property emphasises the importance of the prospect.

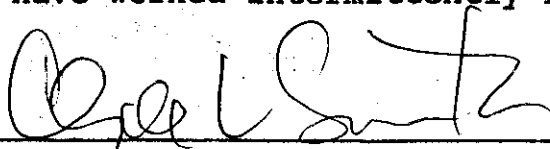
A geochemical soil grid should be run across the property and detailed geological mapping and prospecting should be undertaken.

IV. Personnel

Geologist - Clyde L. Smith,
5354 6th Avenue, Delta B.C.;
employed for five days.

V. Qualifying Statement

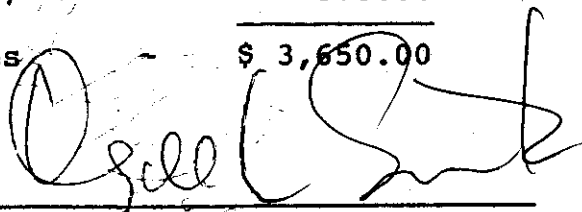
I, Clyde L. Smith, am a registered professional engineer with the Association of Professional Engineers of British Columbia. I am a graduate of Carleton College (B.A.), The University of British Columbia (M.Sc.) and the University of Idaho (Ph.D.). I have been a practicing geologist for 20 years and have worked intermittently in the Yukon Territory since 1966.



Clyde L. Smith, Ph.D., P. Eng.

VI. List of Expenditures

Geological mapping in field, office map work and report writing ... @ \$500.00/day	-	\$ 2,500.00
Helicopter trip to property (Aug.17)	-	575.00
Helicopter trip to property (Aug.18)	-	575.00
Total expenditures	-	<u>\$ 3,650.00</u>



Clyde L. Smith, Ph.D., P. Eng.



MESSAGE FORM

FORMULE DE MESSAGE

TO: À R. Ronaghan Mining Recorder Mayo	FROM: DE Blake Baxter Branch S.M.R. Direction Whitehorse Division	Not to be included in Message: A ne pas comprendre dans le message File No. Dossier n°
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Telex Phone No. (if available) Numéro de téléphone telex (si on le sait)	PRIORITY (Check whichever is applicable) For Dispatch Within 1 hr. <input type="checkbox"/> Within 3 hrs <input checked="" type="checkbox"/> By 8:30 A.M. Tomorrow <input type="checkbox"/> À transmettre D'ici 1 h D'ici 3 h Au plus tard à 8h30 demain matin	Délai (pointer le délai voulu)
---	--	--------------------------------

PLEASE PRINT PLAINLY OR TYPE MESSAGE BELOW
 PRIÈRE D'ÉCRIRE EN MOULE OU DE DACTYLOGRAPHIER LE MESSAGE DANS L'ESPACE CI-DESSOUS

CODE NO - N° DE CODE	
Originator's - Envoyeur	Addressee's - Destinataire

Several months ago a telex was sent requesting more information concerning the report by Ventures West Minerals Ltd. on the ANDY claims, 105 0 6, before assessment credit could be awarded. Information requested was as follows:

Section 6(a) (iii) of Schedule of Representation Work indicates that receipts, certified statements, etc. may be requested to support claims for assessment credit. Geology Section requires

1. receipts supporting helicopter costs
2. an indication - such as a fee schedule from the Association of Professional Engineers of British Columbia - that the \$500.00 per diem rate charged by the author of the report is reasonable. It is far in excess of anything ever charged on previous assessment reports.

Was anything ever received by you w.r.t. this? Could you please follow up with another request to determine whether the company wants to apply for assessment credit with this report? Please forward any information to R. Debicki, Geology Section.

If further space is required please use a second page - Si cet espace est insuffisant, priere d'utiliser une deuxieme feuille.

The following information must be supplied but will not be sent with the above message. Prière de fournir les renseignements suivants qui, toutefois, ne feront pas partie du message ci-dessus.			
Message Prepared by-- Rédigé par--	Telephone No.: Numéro de téléphone:	Date	Signature of Person Authorizing Message: Signature de la personne autorisant l'envoi du message:

VENTURES WEST MINERALS LTD.

619 - 475 HOWE STREET
VANCOUVER, B.C. V6C 2B3

(604) 689-3923

March 10, 1981.

Mr. R.A. Ronaghan,
Mining Recorder,
Mayo Mining District,
P.O. Box 10,
Mayo, Yukon.
Y0B 1M0



Dear Mr. Ronaghan:

RE: ANDY Claims, 105-O-6

I have asked that the helicopter bill supporting the assessment credits on the ANDY property be sent directly to you from Mr. Rick Bailes at Pan Ocean in Calgary.

Regarding my consulting charges, they are in keeping with charges that I have made to clients for examination of stratiform lead-zinc properties over the last couple of years. The \$500/day includes travel to and from Macmillan Pass from Vancouver as well as accommodation and meal charges, drafting and map expenses, and is not excessive.

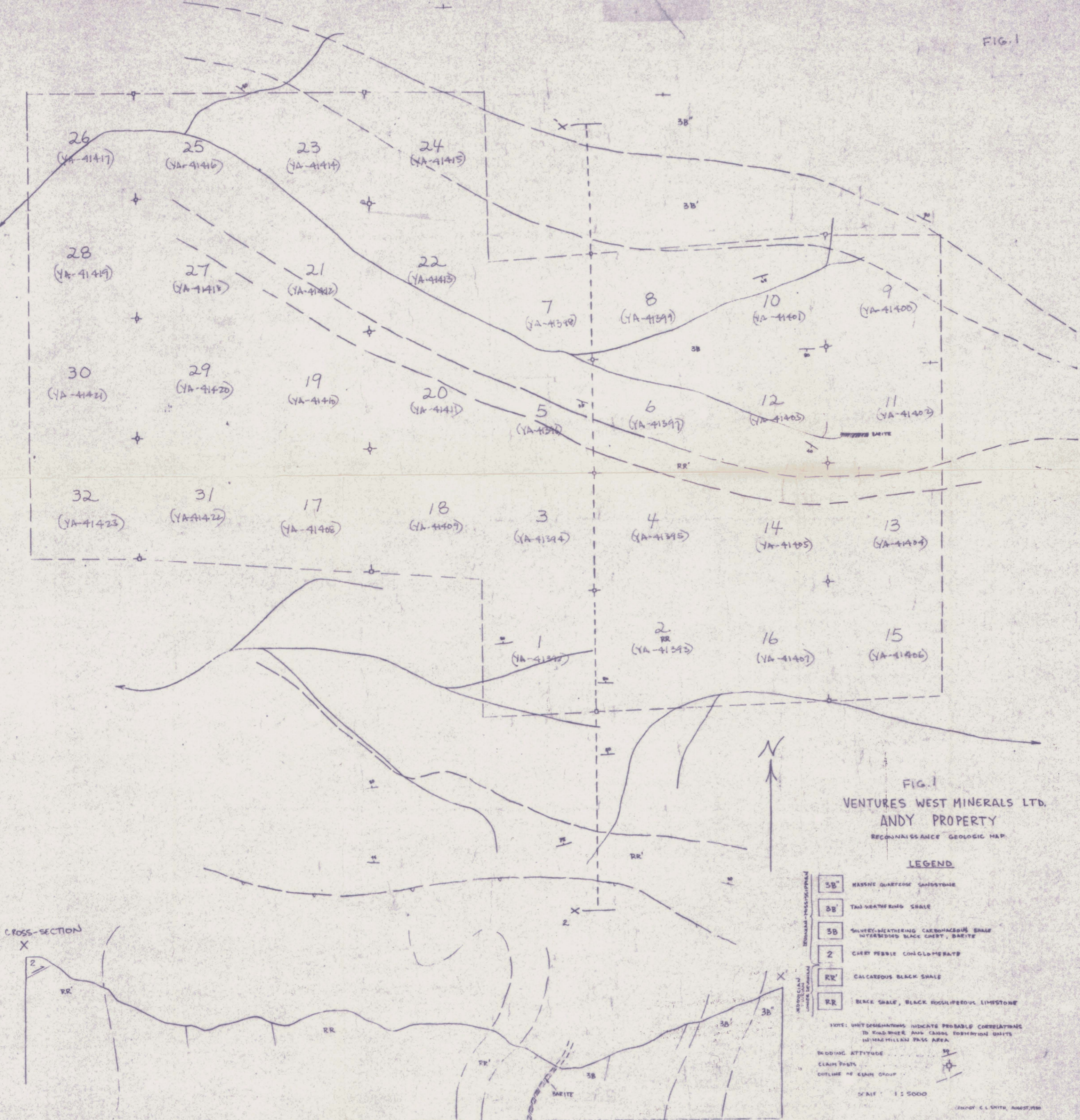
Yours truly,

VENTURES WEST MINERALS LTD.

A handwritten signature in cursive script, appearing to read "Clyde L. Smith".

Clyde L. Smith, P. Eng.,
Vice President, Exploration

CLS/dh



CROSS-SECTION
X

FIG. 1
VENTURES WEST MINERALS LTD.
ANDY PROPERTY
RECONNAISSANCE GEOLOGIC MAP

LEGEND

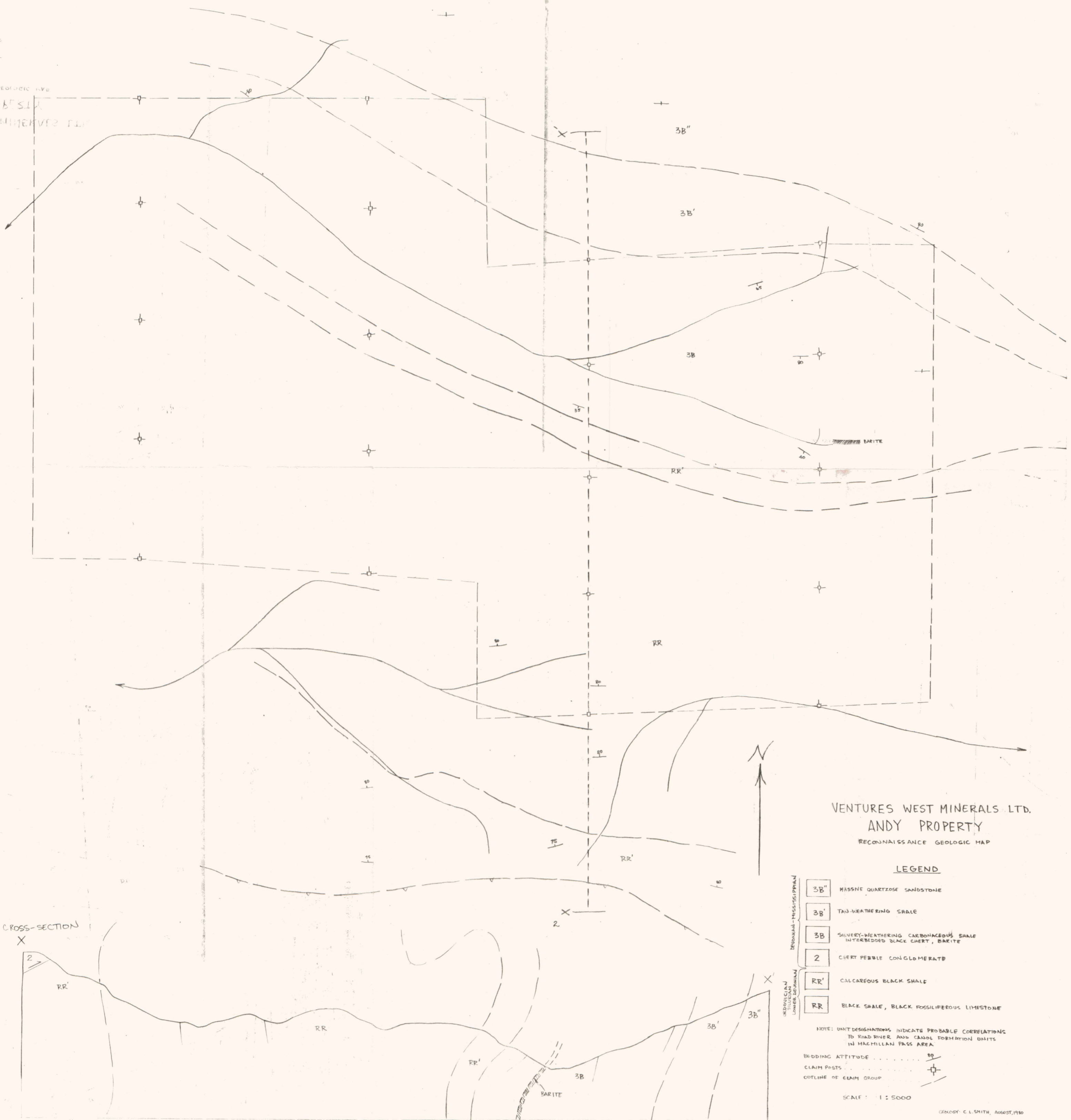
- | | |
|------|---|
| 3B'' | MASSIVE QUARTZOSE SANDSTONE |
| 3B' | THIN WEATHERING SHALE |
| 3B | SILVERY-WEATHERING CARBONACEOUS SHALE INTERBEDDED BLACK CHERT, BARITE |
| 2 | CHERT PEBBLE CONGLOMERATE |
| RR' | CALCAREOUS BLACK SHALE |
| RR | BLACK SHALE, BLACK FOSSILIFEROUS LIMESTONE |

NOTE: UNIT DESIGNATIONS INDICATE PROBABLE CORRELATIONS TO KADABER AND CASSE FORMATION UNITS IN THE MILLAN PASS AREA.

- BEDDING ATTITUDE
- CLAIM POSTS
- OUTLINE OF CLAIM GROUP

SCALE 1 : 5000

REID
 RECONNAISSANCE GEOLOGIC MAP
 1800 FT. STR.
 21 MINERALS LTD.



VENTURES WEST MINERALS LTD.
 ANDY PROPERTY
 RECONNAISSANCE GEOLOGIC MAP

LEGEND

DEVONIAN - MISSISSIPPIAN	3B''	MASSIVE QUARTZOSE SANDSTONE
	3B'	TAN WEATHERING SHALE
	3B	SILVERY-WEATHERING CARBONACEOUS SHALE INTERBEDDED BLACK CHERT, BARITE
	2	CHERT PEBBLE CONGLOMERATE
ORDOVICIAN LOWER DEVONIAN	RR'	CALCAREOUS BLACK SHALE
	RR	BLACK SHALE, BLACK FOSSILIFEROUS LIMESTONE

NOTE: UNIT DESIGNATIONS INDICATE PROBABLE CORRELATIONS
 TO ROAD RIVER AND CASOL FORMATION UNITS
 IN MACMILLAN PASS AREA

BEDDING ATTITUDE 30
 CLAIM POSTS
 OUTLINE OF CLAIM GROUP

SCALE : 1 : 5000