



Department
of Northern Affairs
and National Resources Resource Development
Branch

Ministère
du Nord canadien et
des Ressources nationales Direction du développement
des ressources

017577

*THE ATTACHED REPORT IS
CONFIDENTIAL*

*FILE
C-88509*

Box 2703,
WHITEHORSE, YT
12 Jan 1966.

our file / notre dossier M.I. M-252
your file / votre dossier

Mining Recorder,
WATSON LAKE, YT

Re: Geological and Geophysical Investi-
gation of the Ron, McBean, Marie and
Louise Claims - By A.F. Reeve, P. Eng.

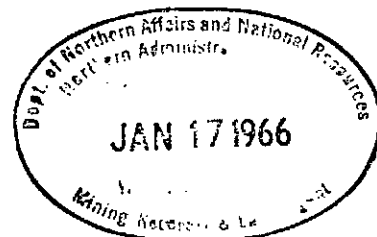
Dear Sir:

On the recommendation of the Resident Geologist and the Mining Inspector, I authorize you to accept the above mentioned report prepared by Albert F. Reeve, P. Eng. as representation work for the value of \$3,200.00.

A copy of the recommendation of the Resident Geologist and the Resident Mining Inspector along with a copy of this authorization should be placed on the claim file. Would you please see that a copy of this report and copies of the recommendations are sent to the Geological Evaluation Unit in Ottawa and to Central Mining Records, Whitehorse.

ADO/wt
Encl.

G.R. Cameron
(G.R. CAMERON)
Commissioner



Box 2703,
WHITEHORSE, YT
12 Jan 1966.

M.I. M-252

Commissioner.

Re: Geological and Geophysical
Investigation of the Ron,
McBean, Marie and Louise Claims, -
by A.F. Reeve, P. Eng.

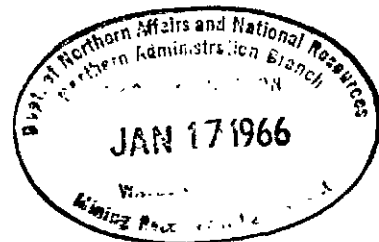
Dear Sir:

The enclosed report is recommended for acceptance
as representation work at a value of \$3,200.00.

- Attached is a copy of the recommendation of the
Resident Geologist.

AGO/wt
Encl.

(A.D. OLIVER)
Mining Inspector.



Box 969,
Whitehorse, Y.T.,
Dec. 17, 1965.

Mr. G.R. Cameron,
Commissioner of the Yukon,
P.O. Box 2703,
Whitehorse, Y.T.

Re: Geological and Geophysical
Investigation of the Ron,
McBean, Marie and Louse Claims -
By A.F. Reeve, P. Eng.

Dear Sir:

In my opinion, this report is acceptable as representation
work under Section 53 (4) of the Yukon Quartz Mining Act.

Yours truly,

L.H. Green,
Resident Geologist.



GEOLOGICAL AND GEOPHYSICAL INVESTIGATION OF THE
RON, McBEAN, MARIE AND LOUISE CLAIMS

Located at latitude $61^{\circ} 27'$, Longitude $128^{\circ} 31'$
on Claim Sheet 105-4-7, YUKON TERRITORY
June 22 - July 3, 1965, July 12-15, 1965, August 13-20, 1965

by
Albert F. Reeve, P.Eng.
November 19, 1965

GEOLOGICAL AND GEOPHYSICAL INVESTIGATION

of the

RON, McBEAN, MARIE AND LOUISE CLAIMS

Located at latitude 61° 27'
 longitude 128° 31'

On Claim Sheet 105-4-7

YUKON TERRITORY -

-

June 22 to July 3, 1965
July 12 to July 15, 1965
August 13 to August 20, 1965

017577

by

Albert F. Reeve, P.Eng.
Geological Engineer

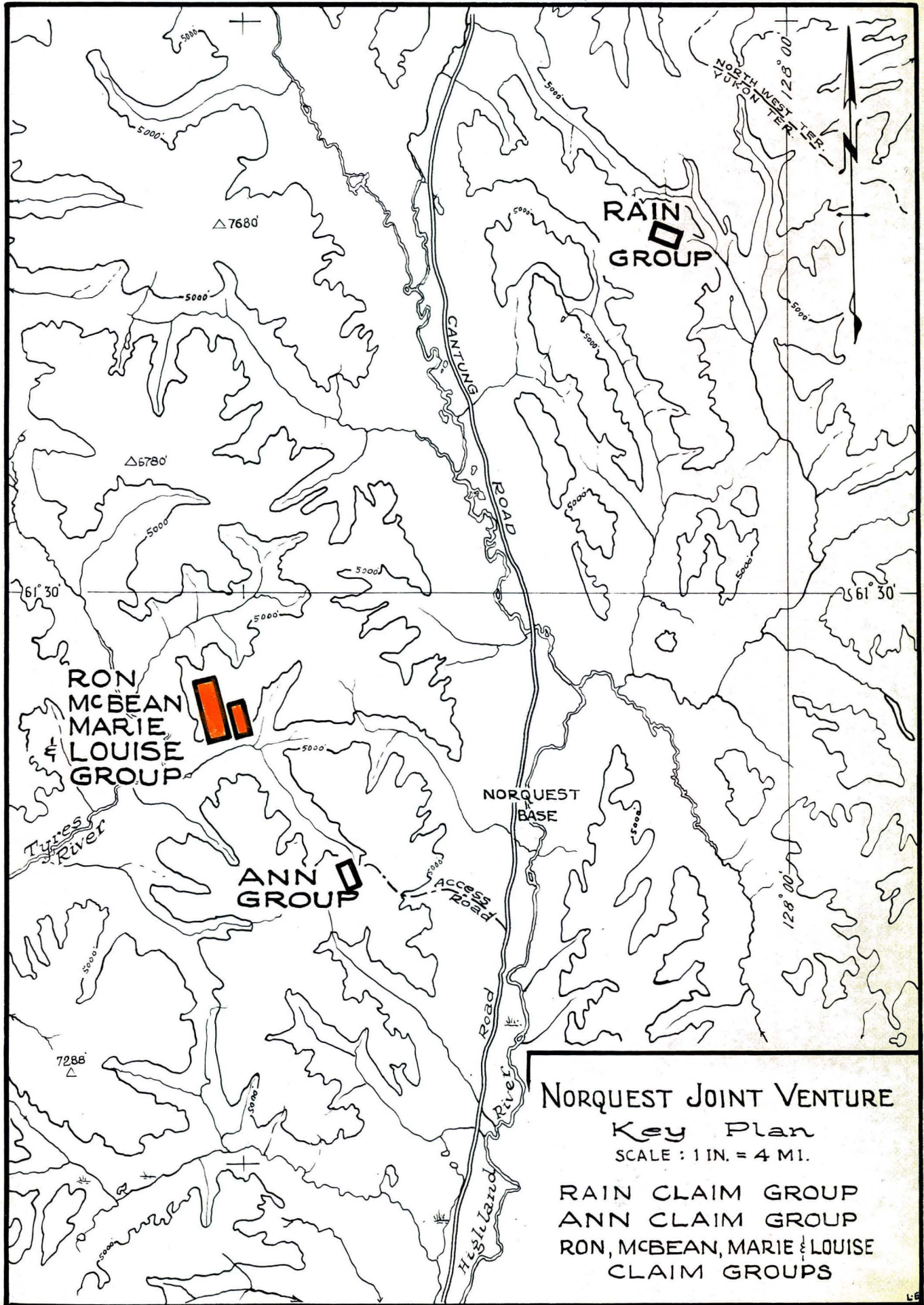
November 19, 1965

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M A P S

Key Map	1" = 4 miles	front
Recon. Magnetometer Traverses (Ron)	1" = 400'	
Magnetic Recon. Plan (Louise)	1" = 400'	
Magnetic profiles (Louise)	1" = 100'	
Magnetic profiles (Louise)	1" = 100'	
Magnetic Detail "A"	1" = 50'	
Magnetic Detail "B"	1" = 50'	
Magnetic Detail "C"	1" = 100'	
Typical cross section	1" = 400'	
Geology plan (showing magnetic results)	1" = 400'	back flap



INTRODUCTION

Between June 22 and August 20, 1965, an investigation of the Ron, McBean, Marie and Louise Claims was carried out by the following employees of Norquest Joint Venture, 320, 355 Burrard Street, Vancouver, B. C.

J.M. Dawson, Geologist, 1066 Harwood Street,
Vancouver, B.C.

G.A. Leamy, Geophysical Technician,
c/o Bralorne Pioneer Mines Ltd.,
320, 355 Burrard Street,
Vancouver, B.C.

P.J. Colbert, Field Assistant,
1066 Harwood Street,
Vancouver, B.C.

J.H. Heal, Field Assistant,
Box 329,
Oliver, B.C.

M. Davenport, Labourer, 725 Greenwood,
West Vancouver, B.C.

Supervision was done by the writer.

(certificate enclosed)

WORK DONE

1. Geology - 32 claims and adjacent areas were mapped at 1" = 400'.

 2. Geophysics -
 - a) 31,500 line feet reconnaissance magnetic observations were taken at 25' and 50' intervals on variably spaced lines.

 - b) 8000 line feet of detailed magnetic observations were taken at 25' intervals on lines 50 and 100' apart.

 3. Control -
 - a) 47,000 feet of grid lines were laid out and surveyed by compass and tape.

 - b) All claim lines were surveyed by compass and tape.

 - c) A topographic base map was prepared from air photographs by V. Zay Smith Associates of Calgary.
-

PROPERTY (32 Claims)

<u>Claim Name</u>	<u>Record No.</u>	<u>Record Date</u>	<u>Owner</u>
Louise #1 to #8	88555 to 88562	Oct. 7/63	Bralorne Pioneer Mines Ltd.
Marie #1 to #8	88579 to 88586	Oct.16/63	Victor A. Niedolin
McBean #1 to #8	88587 to 88594	Oct.16/63	Merl J. Cloutier
Ron #1 to #8	88509 to 88516	Sept.26/63	Bralorne Pioneer Mines Ltd.

Note: These claims are referred to collectively in the Text and on some maps as the "Ron" Group

GEOLOGYTable of Formations

Meta Sedimentary Rocks - of Cambrian or
Early Precambrian Age

1. Upper Unit - Mainly biotite schist.
 2. Siliceous - Calcareous Unit - quartzite,
feldspar quartz biotite
gneiss, limestone, skarn.
 3. Lower Unit - Quartz feldspar gneiss,
biotite schist and
amphibolite.
- Injections - pegmatitic and aplitic
bodies of monzonite and
diorite (mafic poor)

The claim group is largely occupied by the siliceous-calcareous unit which is about 2000 stratigraphic feet thick in this area. It is a portion of a metamorphic belt which is oriented NW - SE and extends for a distance of about 14 miles. It is of principal interest because locally it is the exclusive carrier of mineralization. The three units appear to be concordant. The upper and lower members are not exposed across their full stratigraphic range and do not contain any mineralized horizons in the visible portions.

Irregular masses and dike-like bodies of pegmatitic and aplitic material cut all three metasedimentary units. Locally these injections occupy about 35% of the rock volume in the siliceous-calcareous horizon. They are approximately similar to the siliceous-calcareous unit in composition and are suspected to be internal remobilized products of thermal metamorphism.

GEOLOGY (cont'd.)

All of the foliated rocks have a SE trend and dip moderately to the NW. A few steeply dipping cross faults displace all rock types to a maximum of a few tens of feet. In general, the meta sediments are regularly homoclinal, with very little drag folding or local disruption of the overall trend.

MINERALIZATION

Galena, sphalerite and minor chalcopyrite occur in concordant bands of green, siliceous skarn in the siliceous-calcareous unit. Mineralized skarn is exposed intermittently along strike for a distance of three miles and from the top to the bottom of the siliceous-calcareous horizon. (2000 stratigraphic feet)

Mineralization was found at about thirty locations. On the average, it consists of isolated lenses 25' - 30' in length and 3' to 4' thick, containing not more than 3 per cent sulphides. In many cases the mineralized bands are cut by pegmatite and aplite bodies.

Chip samples were taken across two sections of average and better than average mineralization.

	<u>W^o</u>	<u>Au.</u>	<u>Ag.</u>	<u>Pb.</u>	<u>Zn.</u>	<u>Cu.</u>	<u>Cd.</u>
70276	10 ^o	Tr.	.1	.65	.89	Tr.	.01
70277	10 ^o	Tr.	.6	.35	2.68	.01	.01

GEOPHYSICS

Method

Magnetic reconnaissance traverses were run in selected drift covered areas. This was followed by detailed magnetic surveys in areas where anomalies were detected on reconnaissance lines.

Traverses were looped together in groups, at average time intervals of one hour and corrected internally for diurnal variation. Individual loops were not tied together.

Magnetic observations were made with a "Sharpe MF-1R" flux-gate magnetometer to the nearest 10 gammas.

It is estimated that this method maintained a relative profile reliability of 30 gammas.

Sample calculation for a traverse loop -

<u>Station</u>	<u>Reading</u>	<u>Diurnal Correction</u>	<u>Result</u>	<u>Time</u>
Base	250	-30	220	8 A.M.
1	270	-30	240	
2	280	-20	260	
3	280	-20	260	
4	270	-10	260	
5	260	-10	250	
6	250	- 0	250	
base	220	- 0	220	9 A.M.

GEOPHYSICS (cont'd.)

Results

The targets sought were inclined skarn beds mineralized with sphalerite galena and pyrrhotite.

Test work over known zones of this type showed that a narrow, sharply irregular magnetic disturbance is caused by the contained pyrrhotite. Buried sources yield broader, smoother profile relief. Background "noise" is exceptionally low.

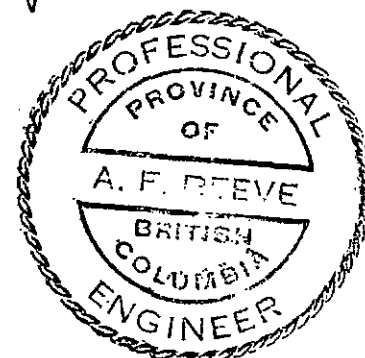
All magnetic results and traverses are keyed to the 1" - 400' scale geology plan. Two magnetic disturbances showed significant continuity. One is 350' long and lies on Ron #6 claim (mag. detail "A"), the other is about 1100' in length on Louise #3 claim (mag. detail "C"). Both demonstrate roughly linear configurations, suggesting that the sources are magnetic beds which might carry Pb-Zn sulphides.

CONCLUSIONS

1. Numerous mineralized localities were observed on the property; however, none of these demonstrated encouraging strength in terms of lateral dimensions or grade. Many are well enough exposed so that their lense-like character is clearly apparent. In many cases, the mineralized zones are terminated by barren injections of granodioritic material.
2. It has been conservatively estimated that over 30 per cent of the favourable stratigraphic horizon (siliceous-calcareous sequence) is occupied by barren pegmatites and aplites. The presence of such a high proportion of injected material in the area renders the possibility of developing a mineralized zone of substantial continuity very remote.
3. A number of magnetic anomalies varying in length from 100' to several 10's of feet were detected. It can be reasonably assumed that these represent mineralized skarn bands. However, it is the writer's opinion that a zone of several thousand feet along a single horizon, or series of horizons, would be required to provide a feasible exploration target.

RECOMMENDATIONS

No further work is recommended.



A P P E N D I X

NORQUEST JOINT VENTURERON, McBEAN, MARIE AND LOUISE CLAIMSSTATEMENT OF EXPENDITURESWages

Geologist 16/30 x \$600	-	\$ 320.00
Geophysical Technician 12/30 x \$500	-	200.00
2 Field Assistants 2x 14/30 x \$350	-	326.65
1 Labourer 12/30 x \$250	-	100.00

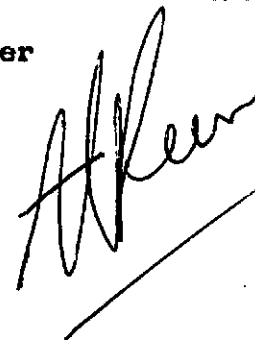
Services

Field supervision drafting and report writing 6/30 x \$1000	-	200.00
Magnetometer rental 12/30 x \$220	-	88.00
Printing and stenographer	-	26.00
Preparation of topographic base map		365.70
Helicopter 13-1/2 hours @ \$106.50	-	1,437.75

Supplies

Food 70 man days @ \$4.25	-	297.50
Office and miscellaneous	-	<u>16.00</u>
Total:		<u>\$3,377.60</u>

Note: Only \$3200.00 to be applied to cover one year's assessment requirements.



Canada

~~PROVINCE OF BRITISH COLUMBIA~~
YUKON TERRITORY

To Wit:

In the Matter of

**Expenditures respecting exploration
of the
RON, McBEAN, MARIE AND LOUISE CLAIMS**

I, ALBERT F. REEVE, of 400, 837 W. Hastings St.
Vancouver in the Province of British Columbia.

Do Solemnly Declare that

1. I, am retained as project manager in Norquest Joint Venture of 320, 355 Burrard Street, Vancouver, B. C.
2. The attached Statement of Expenditures is true.

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

Declared before me

at **Vancouver**

in the Province of British Columbia.

this 23 day of

November A.D. 19 65

ALBERT F. REEVE, P.ENG.
GEOLOGICAL ENGINEER

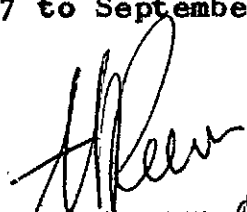
ASSOCIATE
RONALD A. GRANGER

TELEPHONE: RE 6-7073

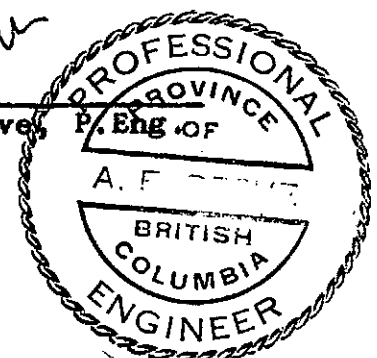
CERTIFICATE

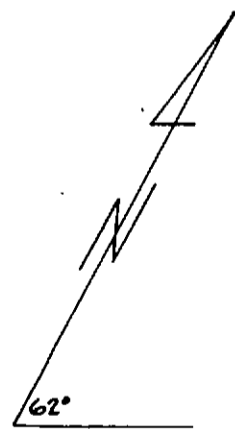
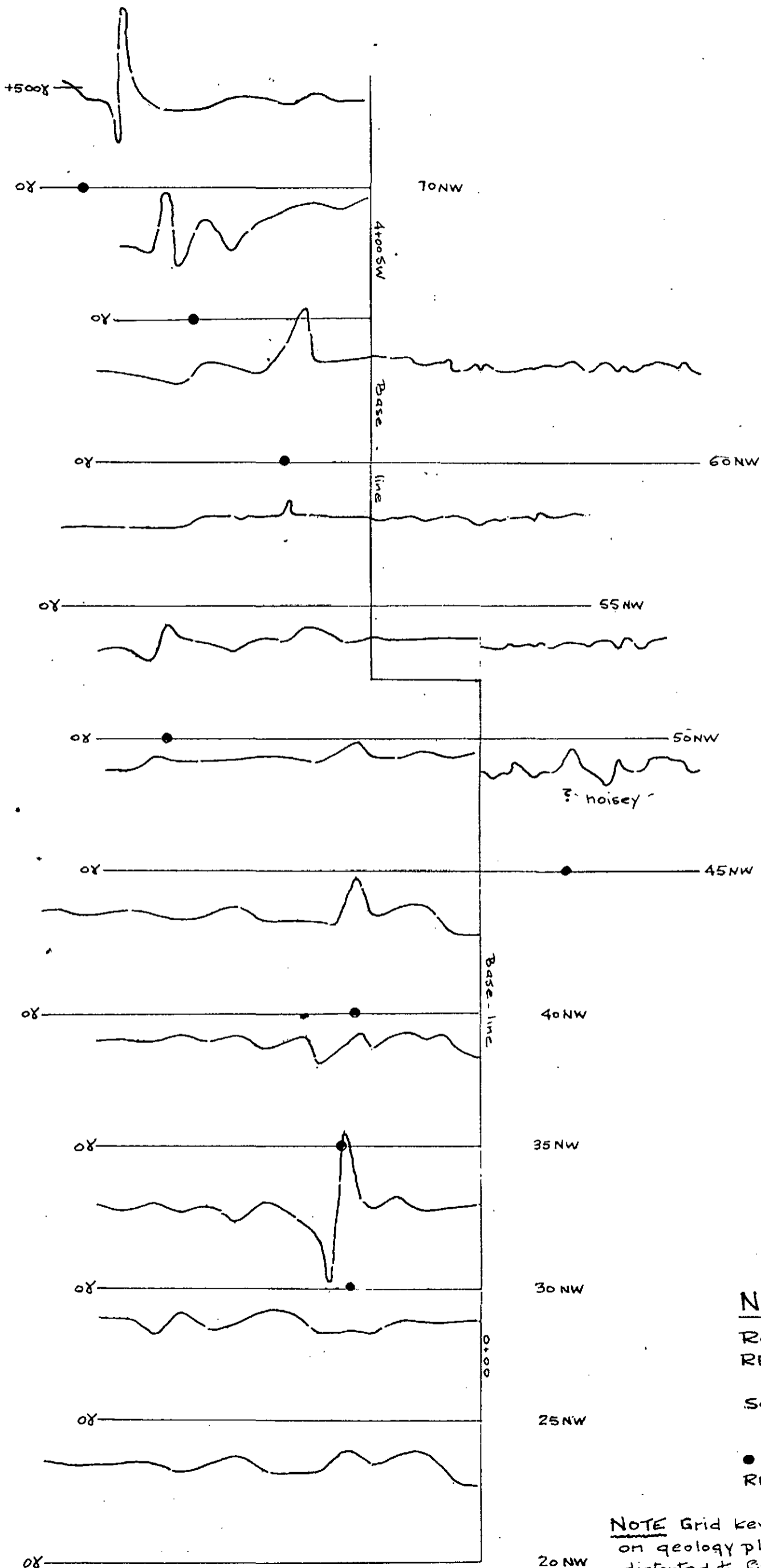
I, Albert F. Reeve, of Vancouver, B.C.,
hereby certify that:

1. I am a geological engineer residing at 2267 West 2nd Ave., with an office at 400, 837 West Hastings Street.
2. I am a graduate of the Provincial Institute of Mining, Haileybury, Ontario (1958) and of Michigan College of Mining and Technology, Houghton, Michigan (B.Sc. 1961).
3. I am a certified member of the Association of Professional Engineers of British Columbia and Ontario.
4. I am retained by Norquest Joint Venture of 320, 355 Burrard Street, Vancouver, B.C. as Project Manager.
5. This report is based on an exploration programme carried out by Norquest Joint Venture, in the Yukon Territory, under my supervision during the period of June 7 to September 23, 1965.


Albert F. Reeve, P. Eng.

November 10, 1965.





NORQUEST JOINT VENTURE

RON CLAIM GROUP
 RECON. MAGNETOMETER
 TRAVERSES

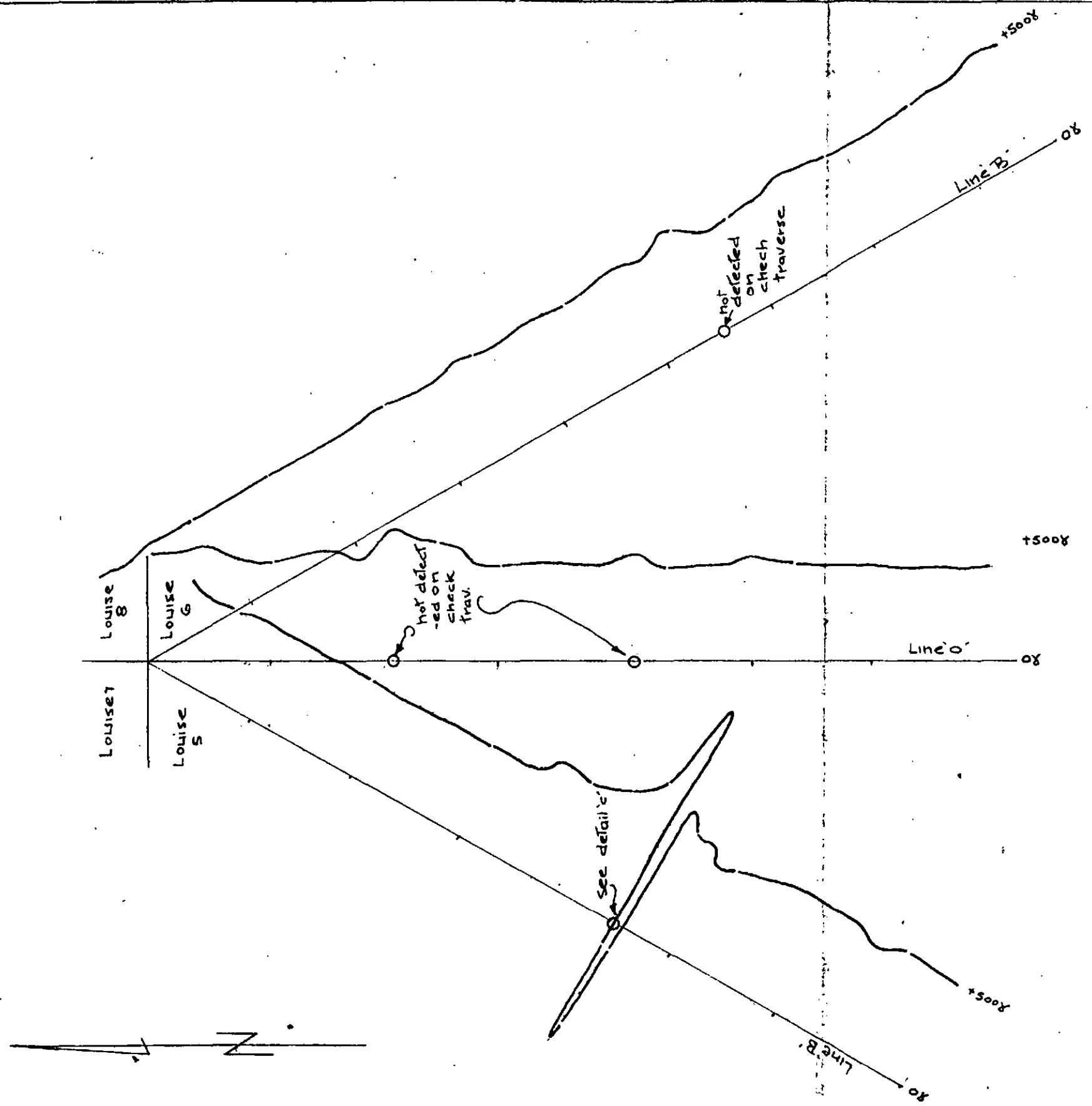
SCALES; 1" = 400'
 PROFILES 1" = 500γ

● MAG. ANOMALIES
 READINGS @ 50' & 25' INTERVALS

NOTE Grid key
 on geology plan
 distorted to fit
 topo base.

G. Leamy Aug '65

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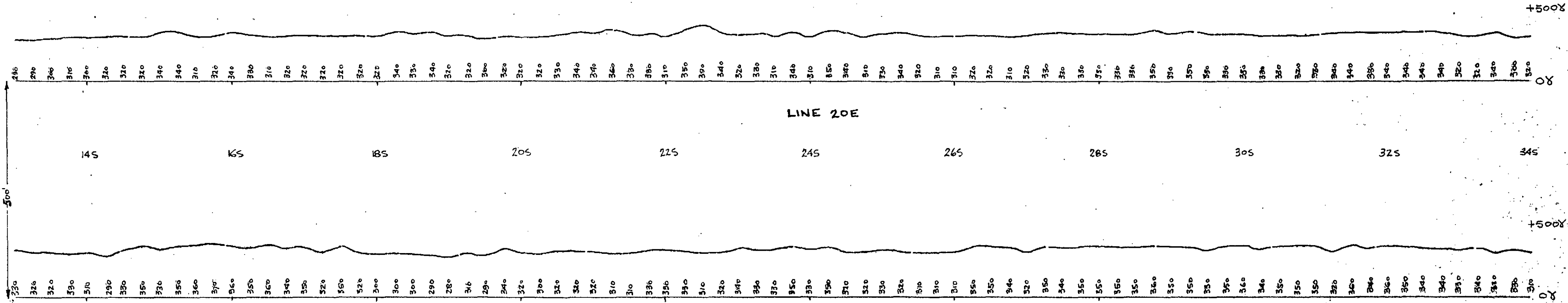


NORQUEST JOINT VENTURE
 RON GROUP - LOUISE CLAIMS
 MAGNETIC RECON. PLAN
 SCALES; 1"=400'
 PROFILES 1"=500'

NOTE Pace & compass control

O ANOMALLY G. Leamy July '65

A. Revere



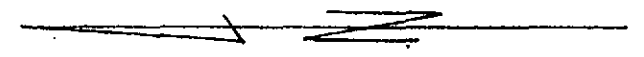
LINE 20E

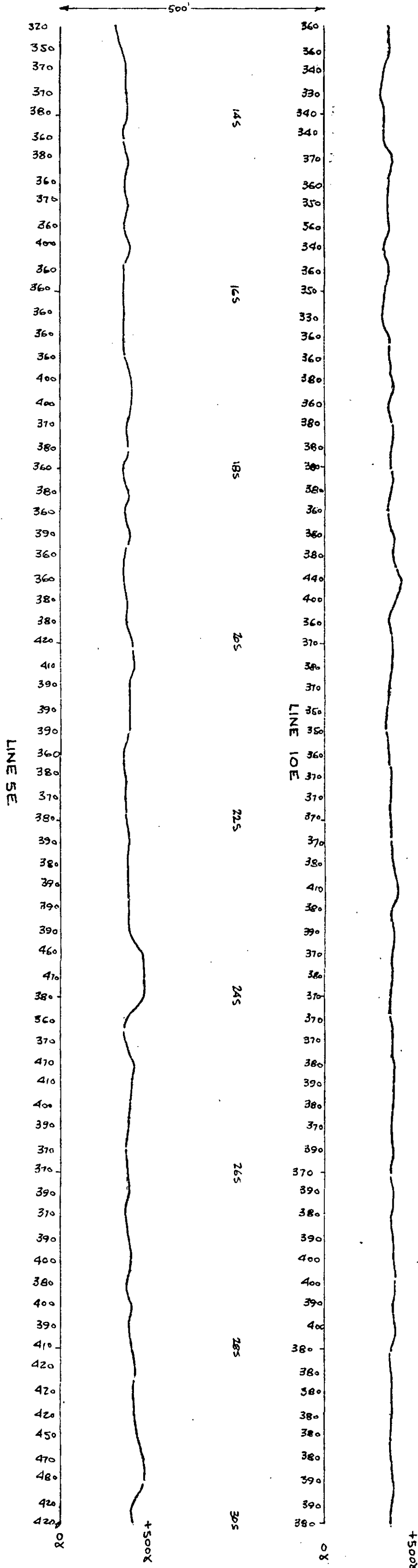
LINE 15E

NORQUEST JOINT VENTURE
 RON GROUP - LOUISE CLAIMS
 MAGNETIC PROFILES
 SCALES: 1"=100'
 PROFILES 1"=500'

G. Leamy Aug 65

A. Reine



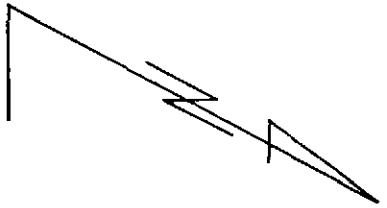
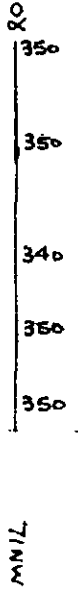
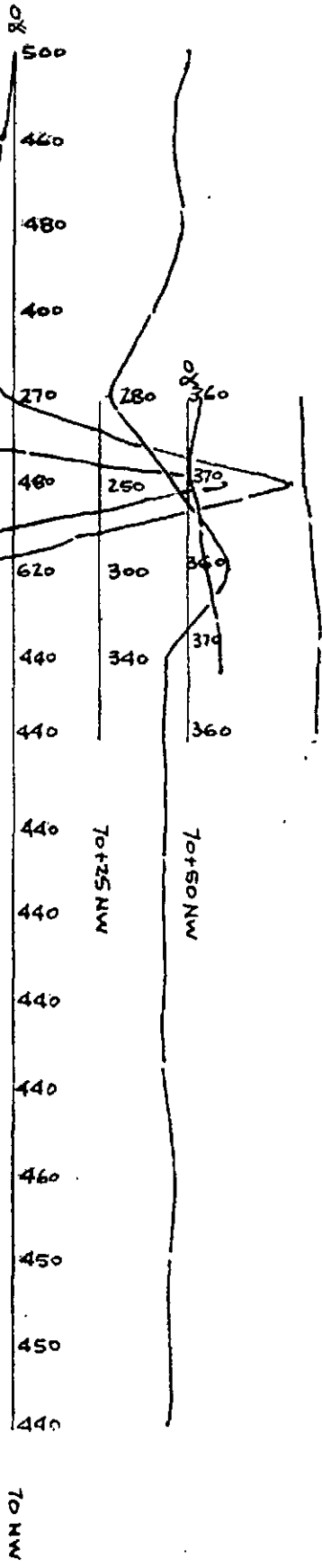
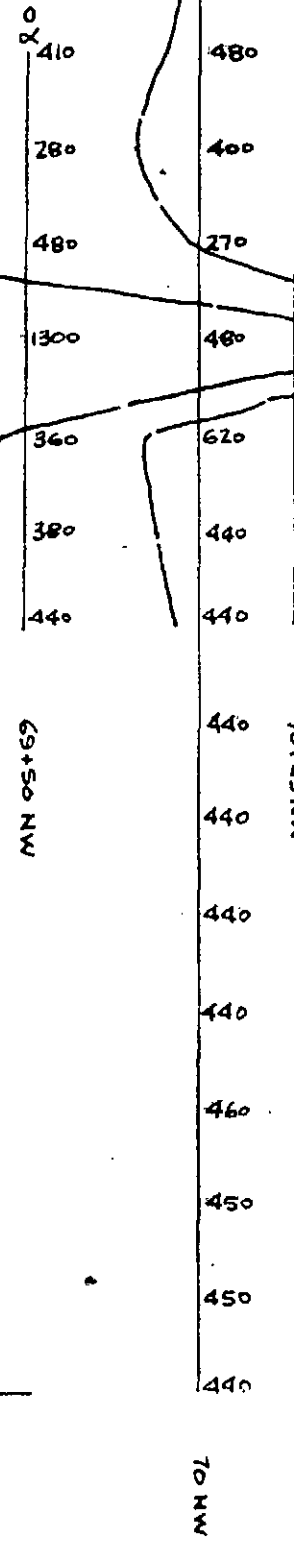
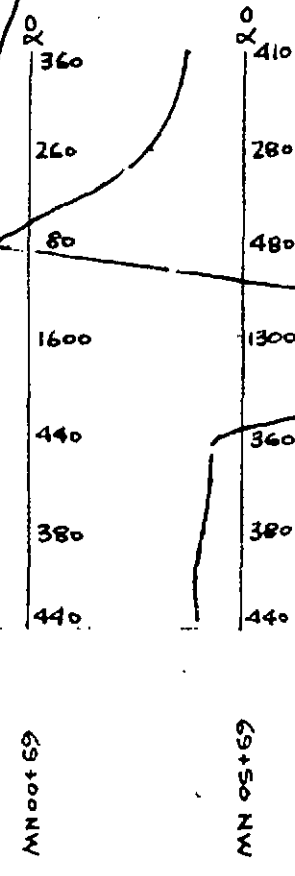
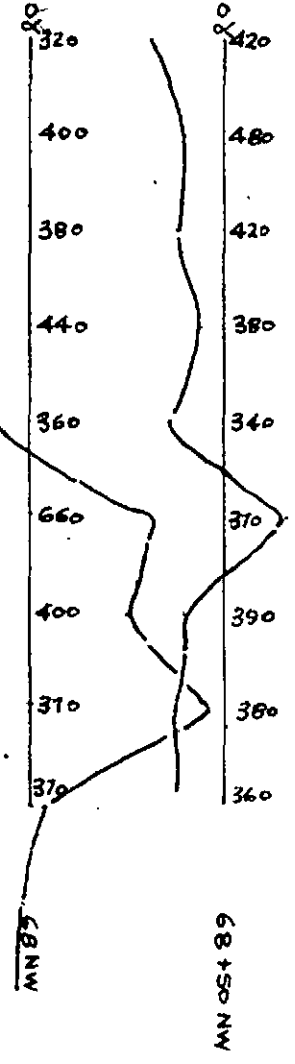
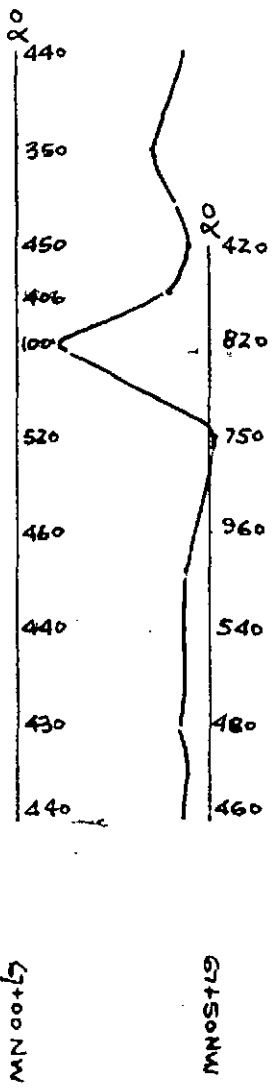
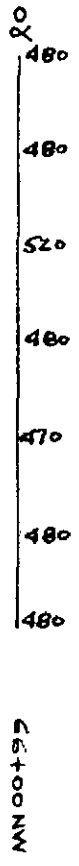
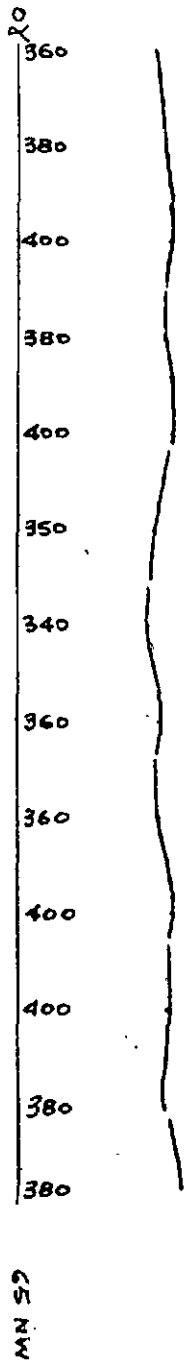


NORQUEST JOINT VENTURE
 RONGROUP - LOUISE CLAIMS
 MAG. PROFILES
 SCALES: 1"=100'
 PROFILES 1"=500X

G. Leamy Aug '65

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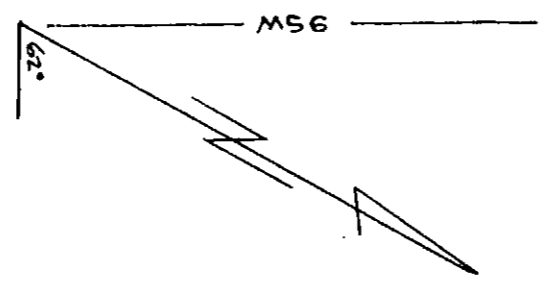
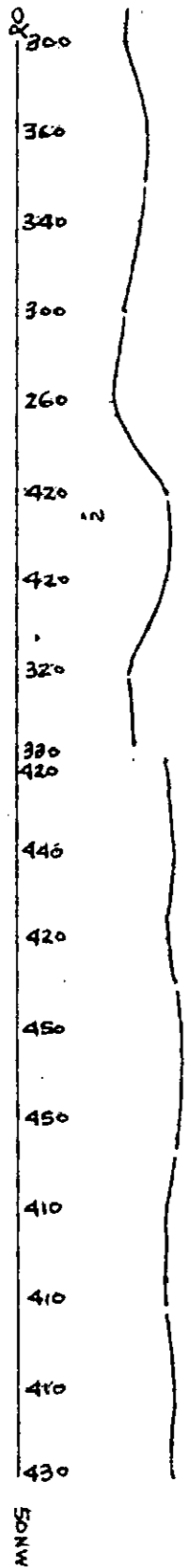
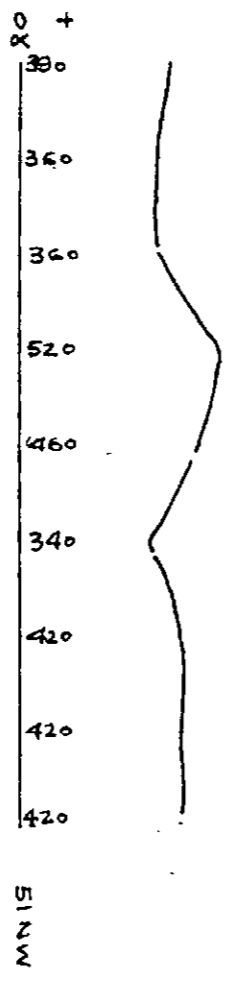
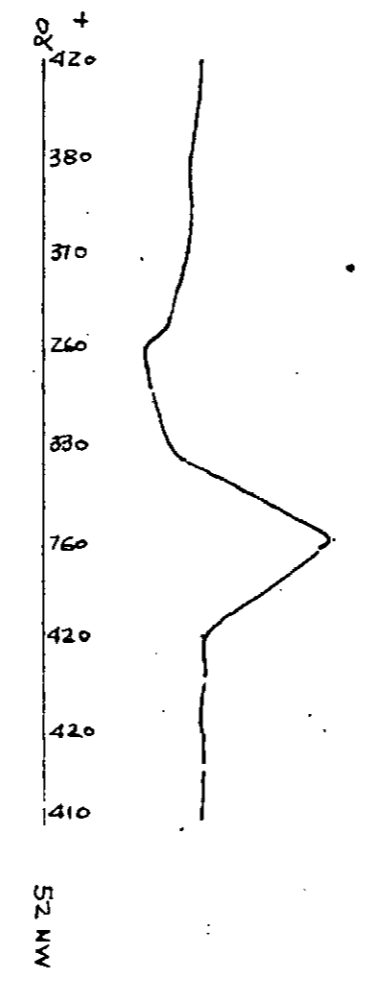
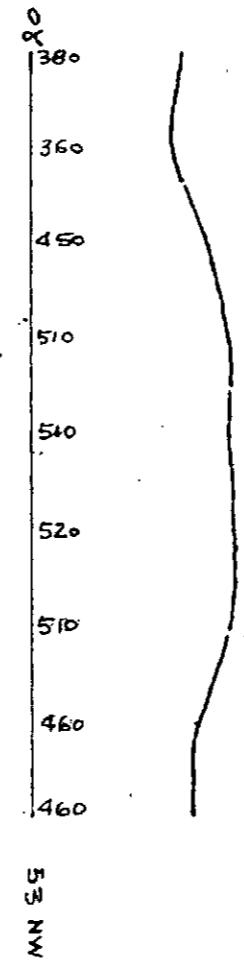
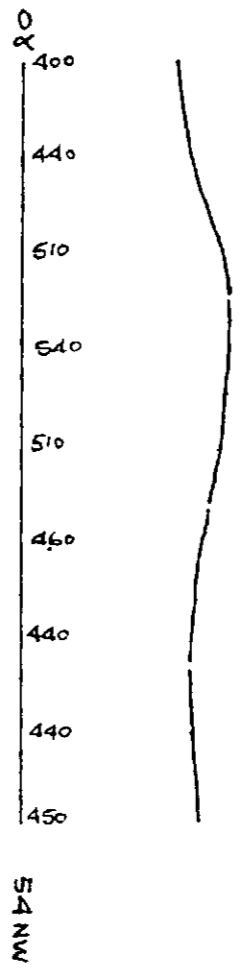
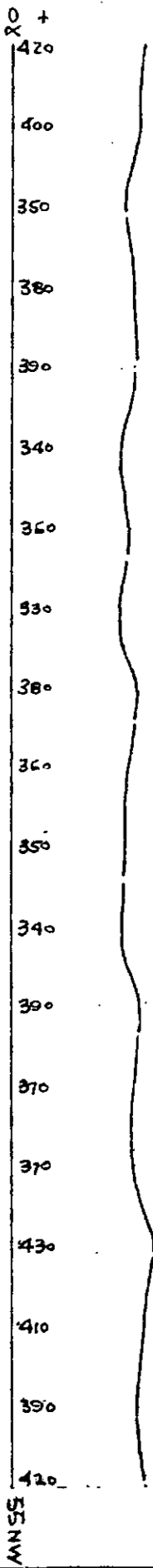
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NORQUEST JOINT VENTURE
 RON CLAIM GROUP
 MAGNETIC DETAIL 'A'
 SCALES: 1" = 50'
 PROFILES 1" = 500'

G. Leamy - Aug. 65

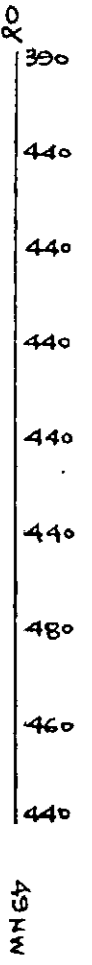
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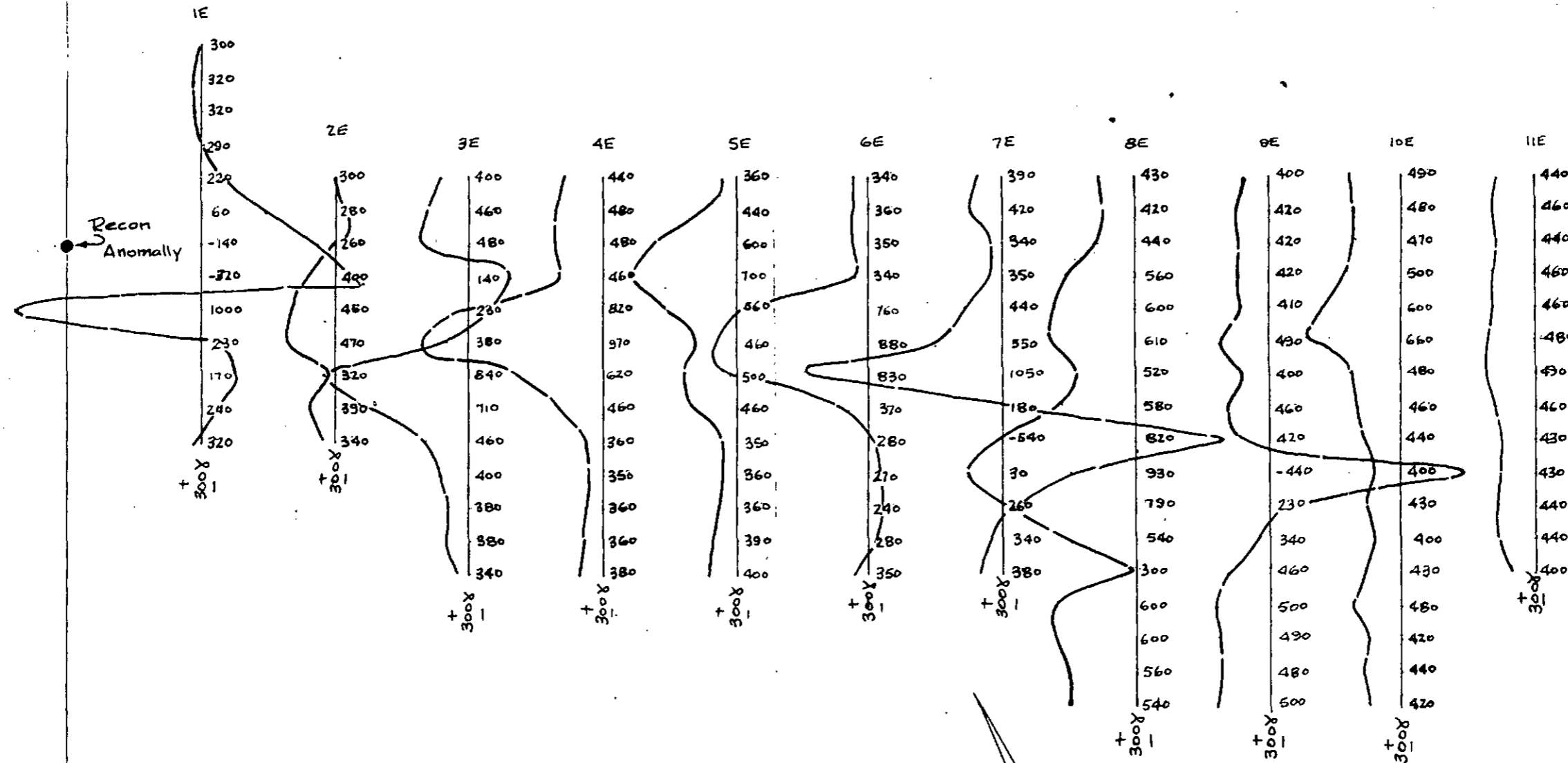
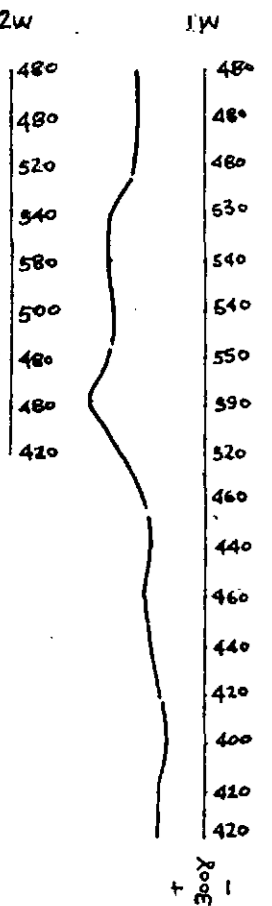
11 W 12 W 13 W 14 W 15 W 16 W 17 W



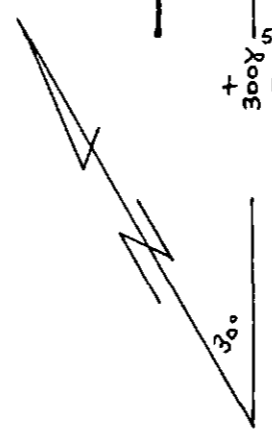
NORQUEST JOINT VENTURE
 RON CLAIM GROUP
 MAGNETIC DETAIL 'B'
 SCALES: 1" = 50'
 MAG. PROFILES 1" = 500'

G. Leamy Aug 65
[Signature]





Line 'B'



NORQUEST JOINT VENTURE
 RON GROUP - LOUISE CLAIMS
 MAGNETIC DETAIL 'C'

SCALES; 1"=100'
 PROFILES 1"=500'
 G Leamy Aug '65

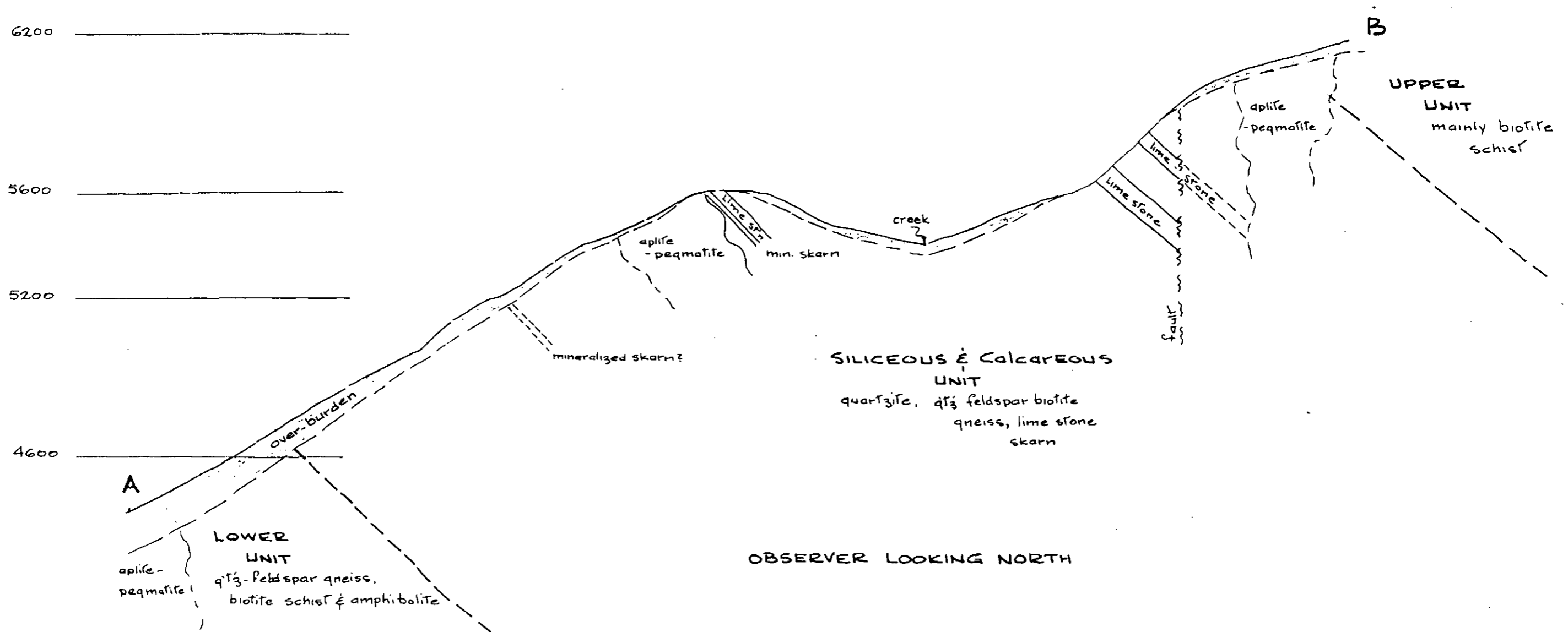
A. Rowe

NORQUEST JOINT VENTURE

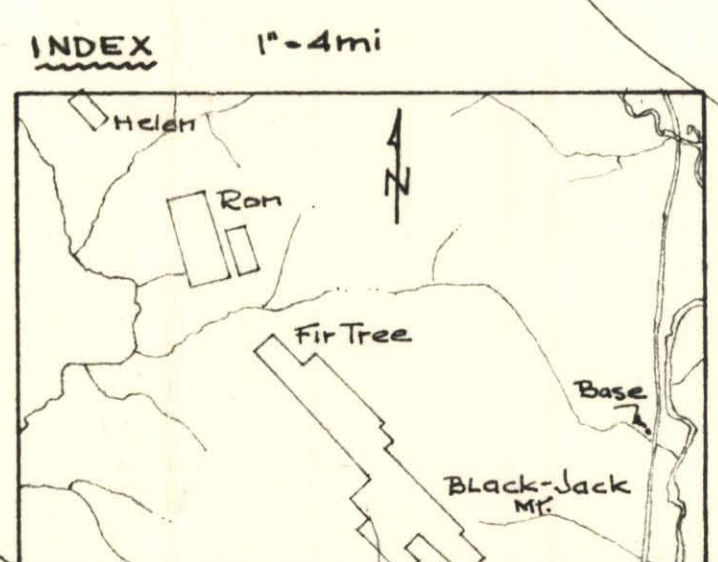
'RON' CLAIM GROUP

TYPICAL GEOLOGICAL CROSS SECTION

SCALE 1" = 400'



OBSERVER LOOKING NORTH



Note - all magnetic traverses keyed to this Plan.

Note - old base line "refreshed" in some areas to coincide with topo base.

NORQUEST JOINT VENTURE
RON CLAIM GROUP
GEOLOGY PLAN - SCALE 1"=400'

	Slate schist, biotite feldspar gneiss, minor slate & phyllite
	Gillieson & calcareous series - quartzite, feldspathic gneiss, kullinimelone, skarn
	Limestone
	Quartz feldspar gneiss, biotite schist & amphibolite
	Injections - monzonitic & dioritic, pegmatitic & apitic texture
	Mineralization - disseminated arsenic & sphalerite in skarn
	Mineralized flow
	Magnetic anomalies

J.M. Dawson July 68

017579

