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This report has been examined by
the Geological Evaluation Unit.
Approved as to technical worth by:

D.C. Yindla
RESIDENT GEOLOGIST

Approved as to cost in the amount
of: \$ 1,308.¹⁶

R. J. Bellan
RESIDENT MINING ENGI. EER

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

[Signature]
COMMISSIONER OF YUKON Administration

019098

CASINO SILVER MINES LTD. (N.P.L.)

WHITEHORSE, YUKON TERRITORY

Phone 667-4161

P.O. Box 130

INTRODUCTION TO REPORT

The aeromagnetic survey was conducted with a Twin Engined Aero-Commander Aircraft, using a Barringer 1 Gamma Nuclear Precision Magnetometer No. AM-101A, Digital Printer, Strip Chart Recorder, Computer, 35 mm Strip camera for flight path recovery, radio altimeter and standard navigational instruments.

The contract was flown NE - SW at 500' altitude and 1760' line spacing by pilot Kozystko and operator Thompson. The computer data and flight line recordings c/w film rolls were sent to Aero Photo Inc., Head Office in Quebec, for compilation into the enclosed Aeromagnetic Survey Map.

The aeromagnetic map was interpreted by Dr. S.S. Szetu, Ph.D., Consulting Geologist. Dr. Szetu holds a B.Sc. in Geology, 1941, from National Sun Yat Sen University, China, and a Degree of Ph.D. in Geology, 1954, University of Toronto. He is also a Fellow of the Geological Association of Canada, Member of the Mineralogical Association of Canada, the American Geophysical Union and the Canadian Institute of Mining and Metallurgy.

Respectfully submitted,


C.D.N. Taylor, P. Eng.

1

CANA EXPLORATION CONSULTANTS LIMITED

SUITE 427
12 RICHMOND STREET EAST
TORONTO 1, ONTARIO

DR. S. S. SZETU
CONSULTING GEOLOGIST

December 31, 1965

TELEPHONE
364-2845

Mr. C. D. N. Taylor, P. Eng.
3943 Locarno Lane
Victoria, B. C.

Dear Sir:

Re: Casino Creek Area,
Yukon

As requested, I have made an interpretation on the aeromagnetic map produced by Aero Photo Inc. for Nordex Exploration.

The aeromagnetic map does not show any high magnetic anomaly which is outstanding and could not be accounted for by hornblende granite observed by government geologists in the area. It is tentatively inferred that aeromagnetic contours of from 57,800-58,200 gammas are indications of approximate areas mostly underlain by hornblende granite to hornblende-rich granite, plus some topographic effects. The contours between 57,500 to 57,800 gammas are indications of areas mostly underlain by various acidic rocks, such as the medium grained granite and other types of granite and/or porphyry.

The magnetic "lows" and depressions in the area are partly due to weak di-pole effects and topography and some due to apparent fault or shear structures which are marked on the plan. There are, however, two outstanding magnetic depressions marked as "A" and "B", located at the west part of the area. These magnetic depressions are not related to any magnetic high or located along an indicated regional structure.

Mr. C. D. N. Taylor, P. Eng.

December 31, 1965

"A" is located immediately to the east of the Bomber showing and its north-arm strikes north-westerly parallel to the known mineralized veins, which are described in Paper 64-36, G. S. C.

I tentatively infer that the vein systems at Helicopter and Bomber showings are subsidiary to an east-westerly minor fault and the said two magnetic depressions are composite effects of acidic rock types and structures related to the mineralization. Because of the fact that the claims staked up-to-date covered only part of "A", I recommend (A) to stake an additional 40 claims to cover the area of "A" and (B) 48 claims to cover area "B".

The indication at Victor Creek is weak; however, because of the fact that a float is reported to be from these Vic group of claims, it appears advisable to stake 4 more claims adjoining the east of the Vic group of claims to cover a weak magnetic depression.

The indications at the Ray and Dip groups of claims are weak and I cannot see any justification of adding more claims there at this time.

Ground geophysical survey is best to be carried out in the summer so that geological prospecting can use the line grid to be cut for the geophysical survey. Except at the showing area, the picket lines should be cut at 400 foot intervals to cover the property.

The cost for a program of combined magnetic and electromagnetic survey, excluding linecutting, is in the order of \$175.00 to \$200.00 per line-mile, depending on the size of the property to be surveyed, plus transportation of two senior operators from the east and the supply of one helper on the property. A preliminary topographic sketch will be given by the operators based on what they noted along the picket lines. The direction of the picket lines should be more or less perpendicular to trends to be tested, and in this case you may have to divide the property into several blocks or all at a north-easterly direction.

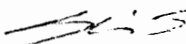
Mr. C. D. N. Taylor, P. Eng.

December 31, 1965

I trust that this report will give you enough information for the time being and we can discuss more details about the follow-up work after the staking has been completed.

Best wishes for the New Year.

Yours very truly,



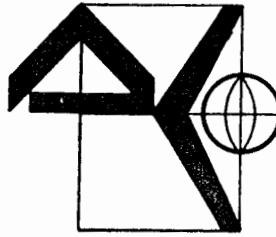
S. S. Szetu, Ph. D.
Consulting Geologist



SSS:rk

- Enclosures: 1 only, Whiteprints showing the isomagnetic lines as plotted by Aero Photo Inc., for Nordex Exploration.
- 1 only, Sepia of the above.
 - 1 only, Claim Map Sheet No. 115-J-10.
 - 1 only, Claim Map Sheet No. 115-J-15.
 - 1 only, Locational Map, Snag, Y. T. 115 J & 115 K (E 1/2)

4.



AÉRO PHOTO INC.

1975, ouest, boul. CHAREST, STE-FOY, QUEBEC 10, CANADA, tél.: 418/683-4459

Casino Silver Mines Ltd

Nordex Explorations Ltd.,
P.O. Box 264
WHITEHORSE, Yukon.
Attn. Mr. L. Proctor

FACTURE NO: N° 1963

MODE DE PAIEMENT:

| VOTRE COMMANDE: | NOTRE SOUMISSION: | | | |
|--|---|--|-------------|------------|
| DATE EXPÉDITION: | VIA: | | LIC. PROV.: | |
| QUANTITÉ | DESCRIPTION | | PRIX | MONTANT |
| | RE: <u>Aeromag dated november 13, 1965.</u> | | | |
| | 200 miles à \$15.00 per mile | | \$3,000.00 | |
| | 68.9 miles à \$14.00 per mile | | 964.60 | |
| | Fed. Tax 11% de 10% | | 3,964.60 | |
| | Less deposit, | | 43.56 | |
| | | | 4,008.16 | |
| | | | 1,500.00 | |
| | | | | \$2,508.16 |
| <p><i>Not Atty Audit Jan 19/66</i></p> <p><i># 156</i></p> <p><i>\$2508.16</i></p> <p><u>Affidavit</u></p> <p>To my knowledge the above expenditure is correct.</p> <p><i>[Signature]</i> Sworn before me at Whitehorse on August 9th, 1966</p> <p><i>[Signature]</i> C.D.N. Taylor P.Eng.</p> | | | | |

CANA EXPLORATION CONSULTANTS LIMITED

SUITE 427
12 RICHMOND STREET EAST
TORONTO 1, ONTARIO

DR. S. S. SZETU
CONSULTING GEOLOGIST

December 31, 1965

TELEPHONE
364-2845

Invoice No. 132

Casino Silver Mining Ltd.

Mr. C. D. N. Taylor, P. Eng.
3943 Locarno Lane
Victoria, B. C.

Re: Casino Creek Area

Dr. S. S. Szetu -

Professional services..... \$300.00

919

Paid Jan 10/66

CBC #148

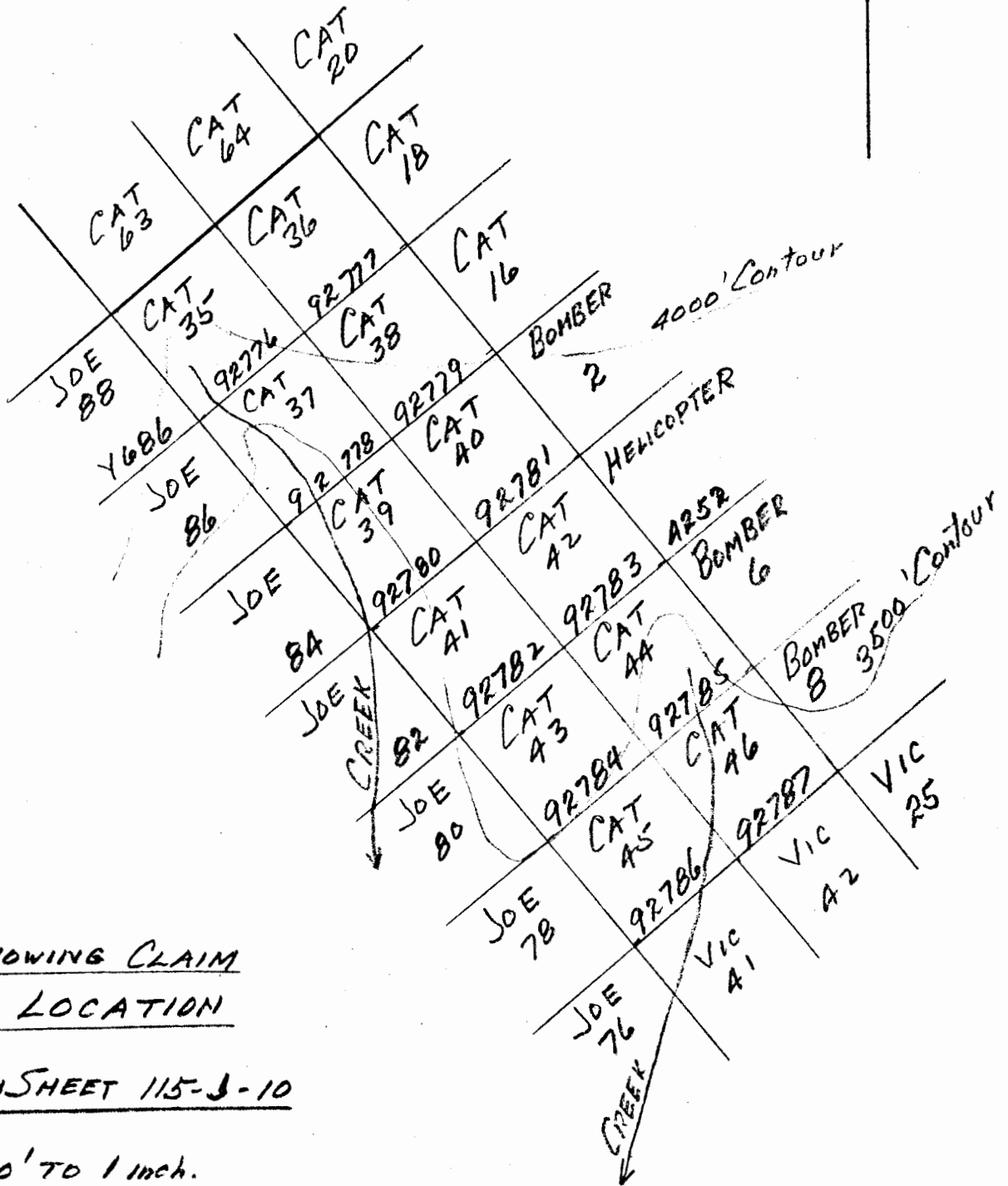
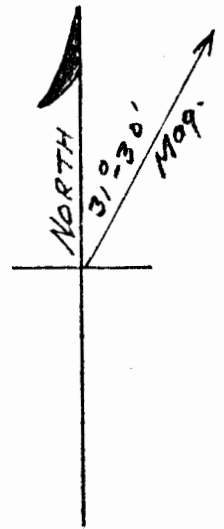
300.00

Affidavit.

To my knowledge the above expenditure is correct.

[Signature]
Sworn before me at
Whitehorse on August
9th, 1966.

C.D.N. Taylor
C.D.N. Taylor P. Eng



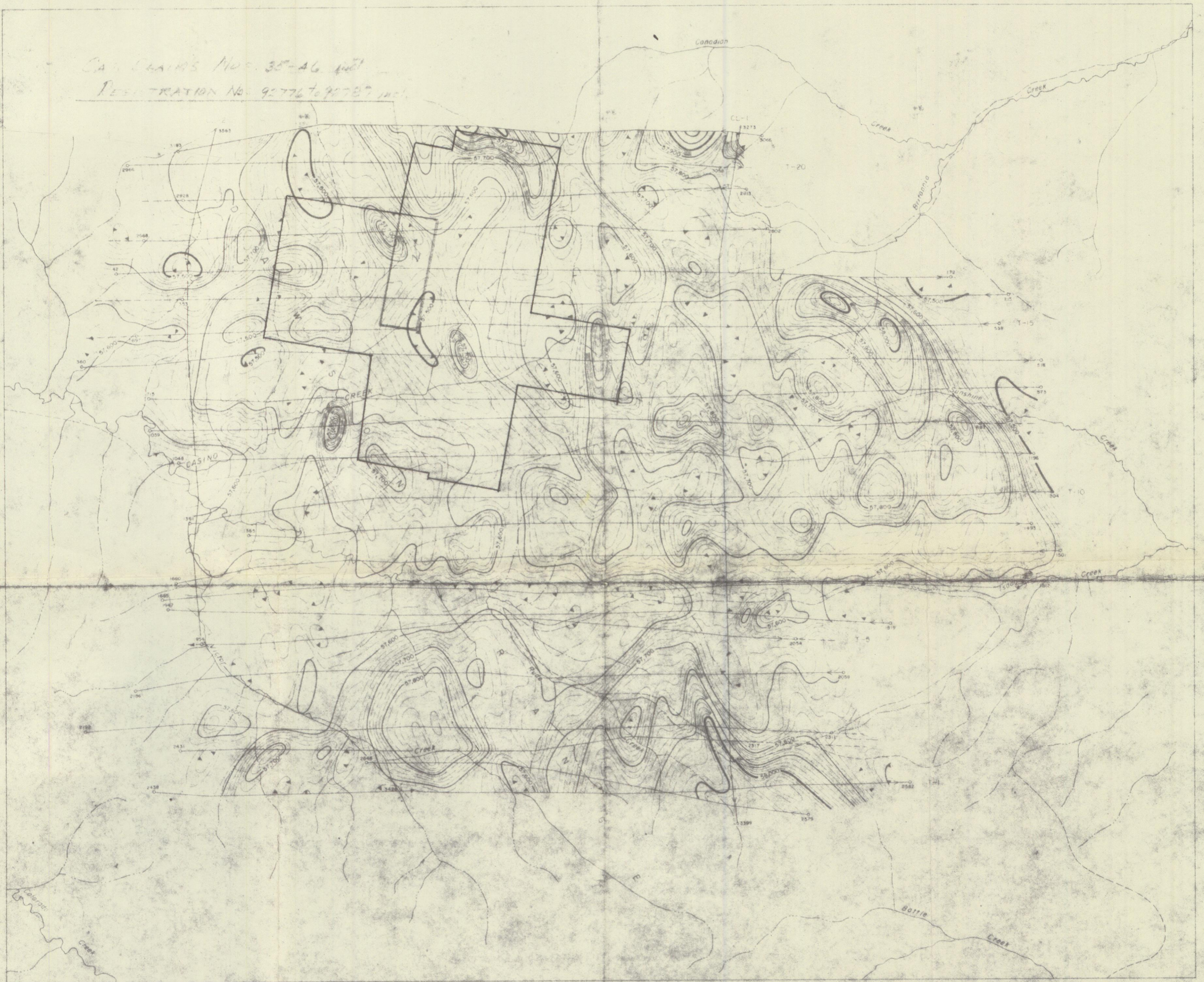
SKETCH SHOWING CLAIM
GROUP LOCATION

REF. CLAIM SHEET 115-J-10

SCALE: 1760' TO 1 inch.

CRIMT.

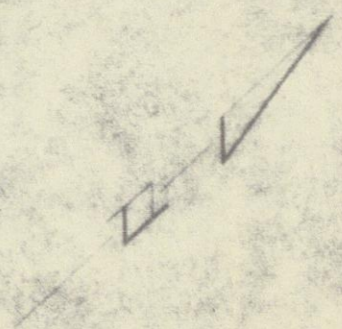
CAS CLAIMS Nos. 35-46 incl
 REGISTRATION No. 92776 to 92787 incl.



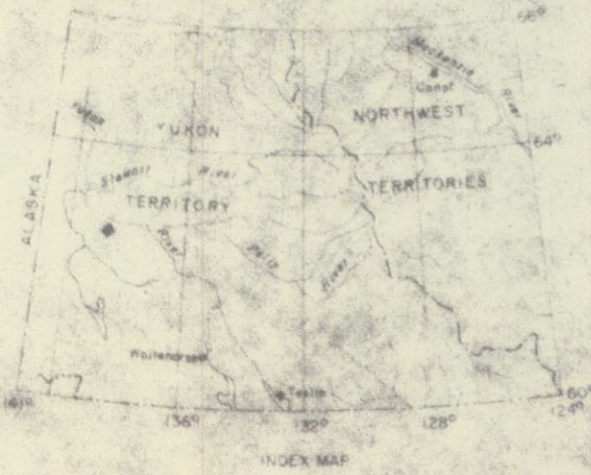
CASINO CREEK AREA
 YUKON TERRITORY

ISOMAGNETIC LINES (absolute total field)
 500 gammas
 100 gammas
 20 gammas
 10 gammas
 Magnetic depression
 Flight lines
 Flight altitude: nominally 500 feet above
 ground level, where terrain permitted.

SCALE ONE INCH TO ONE MILE
 0 1/2 1 1 1/2 2 2 1/2 3 3 1/2 4 4 1/2 5



AIRBORNE MAGNETIC SURVEY, NOVEMBER-DECEMBER
 1965 BY AERD PHOTO INC. FOR NORDEX EXPLORATION LTD.
 NO CORRECTION HAS BEEN MADE FOR REGIONAL VARIATION
 BASE MAP REDRAWN FROM EXISTING 1:250,000 MAP



No MAP# Doc# 019098 (391)