Office of the Supervising Mining Recorder
DEC 11 1979
WHITEHORSE
Yukon Territory

GEOCHEMICAL AND GEOPHYSICAL REPORT

ON THE

NOR CLAIM GROUP

N.T.S. 106 L-3, 106 L-6
Dawson Mining District, Yukon Territory
Latitude: 66°15'N; Longitude: 135°23'W

RECEIVED
DEC 4 1979
MINING RECORDER
LAND AGENT
DAWSON, Y.T.
I.A. & N.D.

RECEIVED
DEC 11 1979
INSPECTOR'S OFFICE
WHITEHORSE, Y.T.

FOR

GETTY MINERALS COMPANY, LIMITED
Suite 600 - 10 King Street East
Toronto, Ontario M5C 1C3

BY

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
M. H. SANGUINETTI

M. H. Sanguinetti, P.Eng.

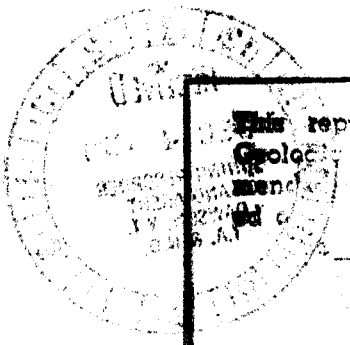
CORDILLERAN ENGINEERING
1418 - 355 Burrard Street
Vancouver, B.C. V6C 2G8

NOVEMBER, 1979

Claims	Grant Numbers
NOR # 1 - 24	YA10244 - YA10267
NOR #25 - 56	YA31705 - YA31736

WORK PERIOD: June 5, 1979 to August 22, 1979.

090515



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P... Engineer

Cons... ...ation work under
Section ... Mining Act.

R. R. BAXTER
Supervising Mining Recorder

Commissio... ... Territory

GEOCHEMICAL AND GEOPHYSICAL REPORT

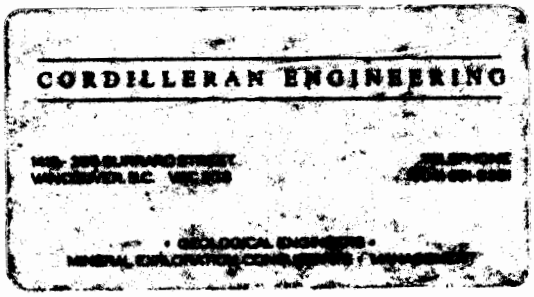
ON THE NOR CLAIM GROUP

Dawson Mining District, Y.T. NTS: 106-L-3,-6
Lat. 66°15'N; Long 135°23'W

090515

FOR: Getty Minerals Company, Limited
By: Cordilleran Engineering

November, 1979



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INTRODUCTION

This report describes the results of exploration for uranium mineralization on the NOR 1-56 claim group during the 1979 field season. The program included grid preparation, a ground spectrometer survey, soil geochemistry and a Track Etch survey. The results of the Track Etch survey are appended.

This work was carried out between June 5 and August 22, 1979 by field crews of Cordilleran Engineering. Logistical support was provided by a contract Bell 47G3-B2 helicopter.

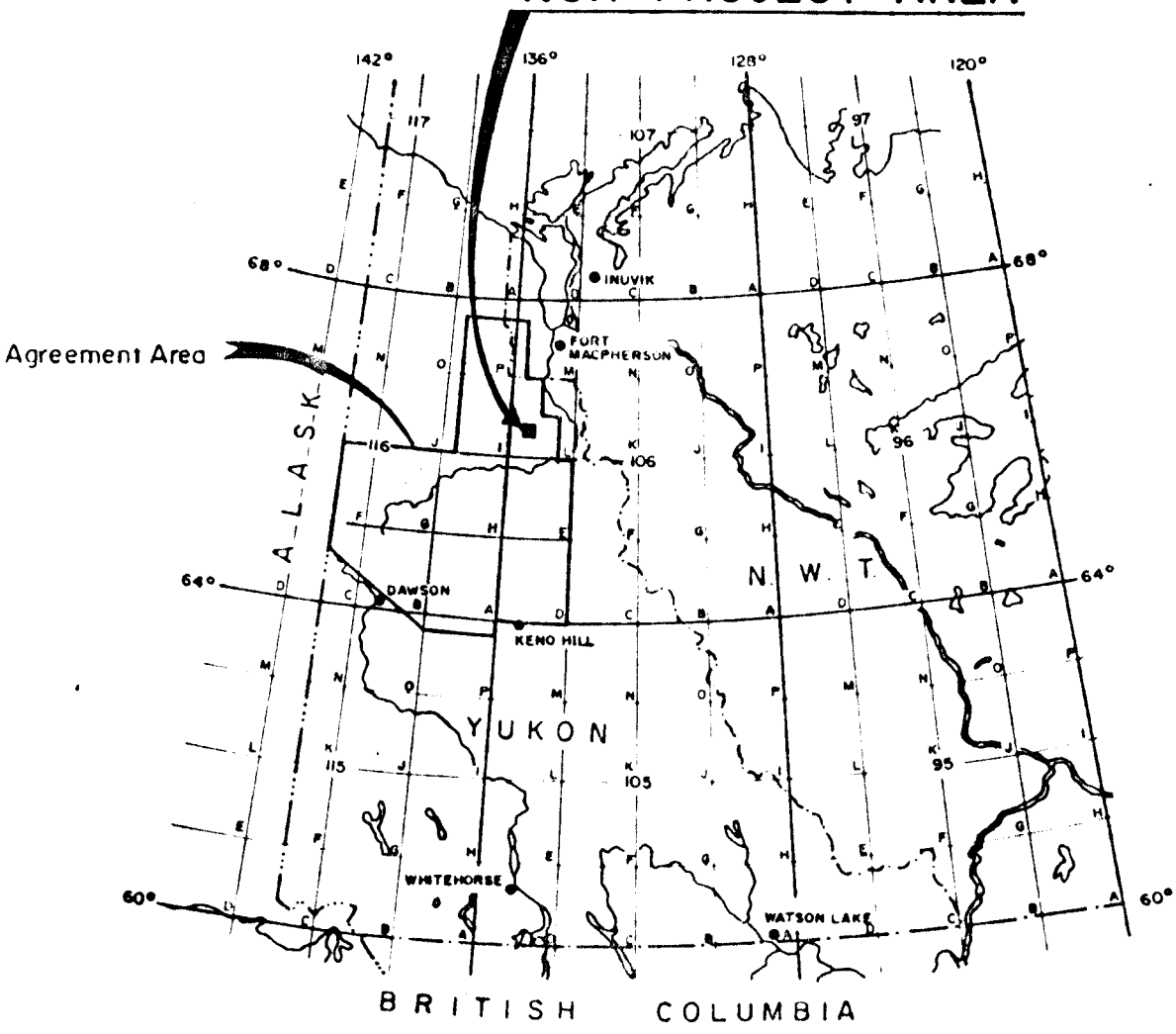
LOCATION AND ACCESS

(Figure 1)

The NOR property is located 17 miles south of the Arctic Circle on the eastern flank of the Southern Richardson Mountains, Yukon Territory, at latitude 66°15'N and longitude 135°23'W. This is approximately 205 air miles north-northeast of Dawson, Y.T., and 195 air miles north of Mayo, Y.T. Caribou (Lusk) Lake, which is suitable for all float-equipped aircraft, lies 8 miles to the north-northeast.

Access to the property was by helicopter, either from Mile 241 on the Dempster Highway (35 miles to the west) or from Caribou Lake.

NOR PROJECT AREA



GETTY MINERALS LIMITED

NOR CLAIM GROUP

LOCATION MAP

DAWSON MINING DISTRICT, YUKON TERRITORY

APPROX. SCALE: 1" = 160 MILES

BY

CORDILLERAN ENGINEERING
1418 - 355 BURRARD STREET
VANCOUVER, B C V6C 2G8

OCTOBER, 1978

FIGURE 1

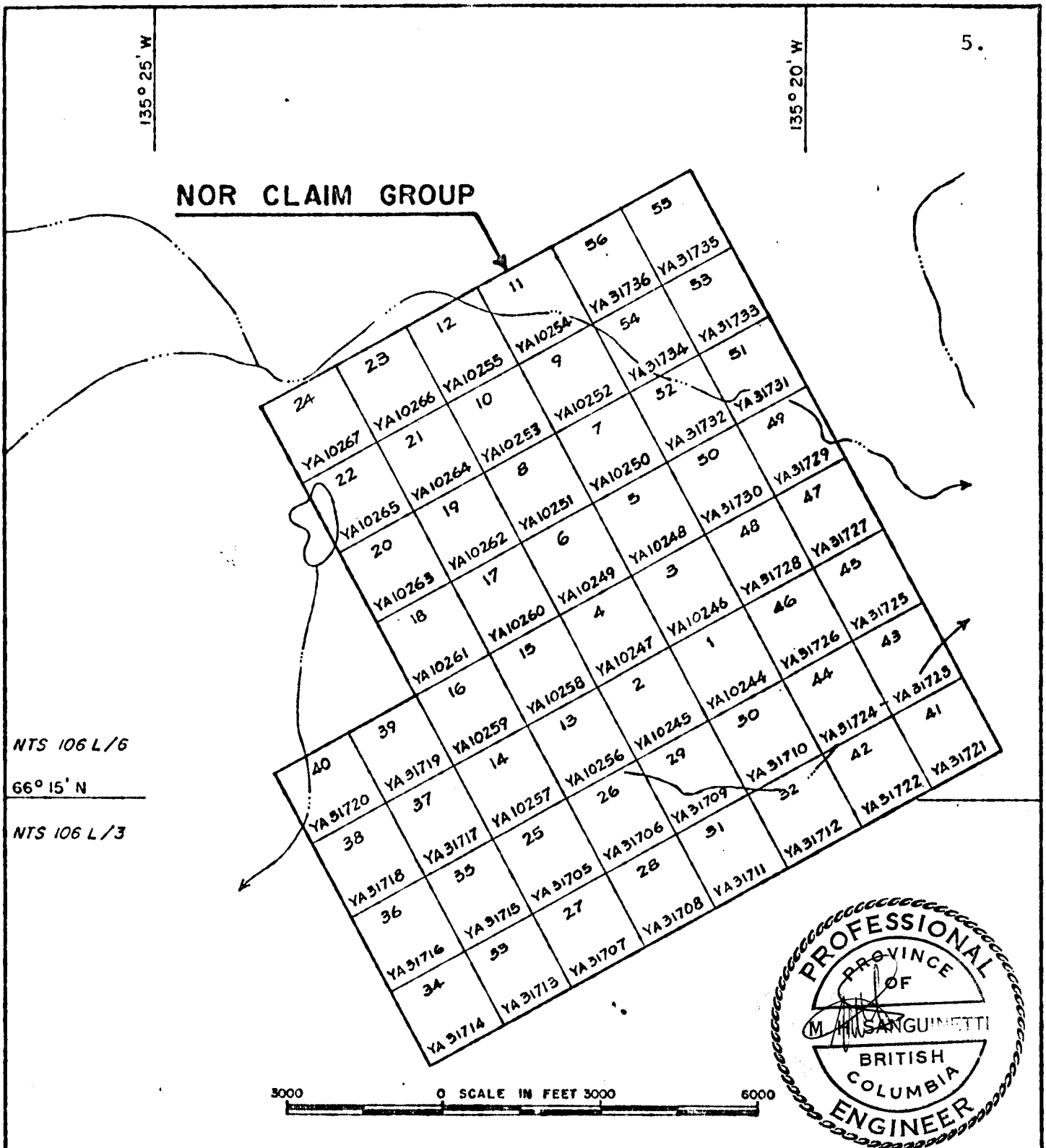
C L A I M S

(Plate 1, Figure 2)

The property is in the Dawson Mining District and consists of the NOR 1 to NOR 56 mineral claims as follows:

CLAIM	GRANT NUMBER	EXPIRY DATE
NOR 1-24 Incl.	YA10244 - YA10267	June 14, 1984
NOR 25-56 Incl.	YA31705 - YA31736	Aug. 30, 1980

These claims are shown on claim maps 106-L-3 and 106-L-6; title is held by Getty Minerals Company, Limited.



PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
M. SANGUINETTI

GETTY MINERALS LIMITED

NOR CLAIM GROUP

DAWSON MINING DISTRICT, YUKON TERRITORY

NTS 106 L/3, L/6

CORDILLERAN ENGINEERING
1418 - 355 BURRARD STREET
VANCOUVER B.C. V6C 2G8

November, 1979

FIGURE 2

GEOLOGY

Paleozoic sediments of the Richardson Trough are exposed in the core of the Richardson Anticlinorium, a fault block structure formed by differential movement on the bounding north-northwest trending transcurrent faults. The faults have been active since early Paleozoic times as "growth faults" and have influenced Paleozoic and subsequent sedimentation. The western Deception Fault and eastern Trevor Fault define the Paleozoic margins (hinge-lines) of the trough (Norris, 1976, 1977, pers.comm.). Major stratigraphic omissions on adjacent fault blocks and deeply incised drainages are evidence of recurrent movement. The Richardson Trough is throught to represent a Paleozoic intracratonic basin (Jeletzky, 1962) or a continuation of the Arctic Franklin Geosyncline (Miall, 1973).

The NOR claims cover a diatreme (heterolithic breccia body) which intrudes (?) a fault-bounded outlier of Precambrian lithologies (Hl) on the east flank of the Southern Richardson Mountains. Enclosing lithologies consist of Middle

GEOLOGY (cont'd)

Cambrian clastics (Unit €wr) to the west, Lower Cambrian clastics (Unit €l) and Devonian siliceous argillites (Unit Dca [Canol Formation]) to the east. Black, non-calcareous, non-siliceous €wr clastics conformably (?) overlie the Precambrian rocks within the fault-block outlier.

The NOR claims are underlain by three principal lithologic units; a diatreme of heterolithic breccia (hBx), limy siltstone (P€l) and phyllitic siltstone (P€2). The diatreme is entirely enclosed by these Precambrian lithologies.

On the northeast side of the claims and in fault contact with the Precambrian units, is a small wedge of Cambrian limestone (€ls). Enclosing fault-bounded lithologies lying outside the claim block are Middle Cambrian clastics (€wr), Lower Cambrian clastics (€l) and Devonian argillites (Dca).

Heterolithic breccia (hBx) occurs as an oval shaped (800 x 1800 m) 'intrusive (?)' occupying the central part of the claims. It is a blocky, mauve-grey weathering rock containing many features typical of heterolithic breccias found in the Quartet Lakes area to the south (Bell, R.T., pers.comm., 1977, 1978). Some of the features are:

- fluidization structures

GEOLOGY (cont'd)

- rudite textures, with clasts of <1mm to >1m.
- clasts of pink quartzite, bedded siltstone, greenstone (?), jasper, and both massive and bedded (disseminated) specular hematite.
- massive, non-bedded, quartz-chlorite-calcite matrix with specular hematite content varying from <1% to 90%.

Silicified zones, containing up to 50% magnetite and hematite, occur erratically within the breccia body.

The enclosing Precambrian units, Pɛ1 and Pɛ2, appear to be essentially the same lithology but differ in that Pɛ2 is altered, presumably by the action of the diatreme. Unit Pɛ1 is principally grey to brown, thin-bedded limy siltstone, varying to silty limestone. Minor sandstone, argillite and shale horizons are interbedded. Unit Pɛ2 is green, white, brown and grey chloritic phyllite with interbedded siliceous siltstone and local quartz and chlorite-rich zones. Both units show areas of intense deformation and local brecciation. Unit Pɛ1 weathers a light, brown-grey colour whereas Pɛ2 weathers medium to dark grey.

FIELD PROGRAM - 1979

Field work on the NOR property was conducted during the period from June 5 to September 9, 1979 and included:

GRID PREPARATION

A total of 84,750 metres of grid was secant chained and picketed at 25 metre stations using an orthophoto base map (1:5,000) for control. The two principal areas of interest on the property (Areas A and B) were covered by lines spaced at 25 metre intervals. The balance of the claim group was covered by lines spaced at 100 and 200 metre intervals. Detailed 5 metre square grids were chained and flagged over Areas A and B in preparation for a later surficial geology - boulder tracing program. An area of 150 by 350 metres was covered in Area A in addition to an area of 50 by 75 metres in Area B.

SOIL GEOCHEMISTRY (Plate 2)

A total of 430 reconnaissance soil samples were collected at 25 or 50 metre spacings along 17.25 kilometres of grid line. The lines sampled are spaced at 400 metre intervals except for intermediate 200 metre lines across Areas A and B.

FIELD PROGRAM - 1979 (Cont'd)

SPECTROMETER SURVEY (Plates 3 to 8)

A ground spectrometer survey was conducted along 76.8 kilometres of grid line using an Urtec UG-135 differentiating spectrometer with a 4 cubic inch detector crystal. Results for the total count (TC-1) and uranium (U) channels are plotted.

TRACK ETCH SURVEY (Plate 9, Appendix "D")

A total of 250 Terradex Track Etch detector cups were emplaced at 50 or 100 metre stations along 7 reconnaissance lines spaced at 400 metre intervals. The results of this survey are summarized in an appended report by Dr. H. Ward Alter of Terradex Corporation.

RESULTS OF 1979 EXPLORATION PROGRAM

I. SOIL GEOCHEMISTRY (Plate 2)

A total of 430 reconnaissance soil samples were collected from the B horizon (or equivalent) along 17.25 kilometres of flagged and picketed grid line. The depth of sample, colour, type of material, slope and radioactivity were recorded at each site. Each sample was placed in a numbered gusseted kraft sample bag and dried before shipment to the North Vancouver laboratory of Bondar Clegg and Company, Ltd. The analytical procedure for uranium consisted of seiving each sample to the minus 80 mesh fraction, weighing, dissolving in hot nitric acid and analyzing by the fluorimetric method.

On the basis of previous orientation surveys the following statistical categories for uranium were derived:

Background	0 - 1.0 ppm
Above Background	1.1 - 2.0 ppm
Anomalous	2.1 - 3.0 ppm
Strongly Anomalous	above 3.0 ppm

RESULTS OF 1979 EXPLORATION PROGRAM
Soil Geochemistry (cont'd)

Five significant uranium anomalies are noted in the results.

a) On line 8+00S, from 4+50E to 7+00E. Six anomalous samples lie immediately downslope from and subparallel to a northeast trending fault which cuts Pɛ1 and Pɛ2 limy siltstone, sandstone and green chloritic phyllite. No uranium mineralization or heterolithic breccia was found. This geochemical anomaly is coincident with spectrometer anomalies for both TC-1 and U channels.

b) On line 2+00S from 7+00E to 8+00E and line 4+00S from 4+50E to 6+00E. These anomalies are downslope from known uranium mineralization at Area A and may be a direct reflection of it.

c) On line 2+00N from 1+25E to 9+00E. These anomalous samples are directly downslope from the mineralized outcrop and boulders of Area A and are presumed to reflect this occurrence.

d) On line 8+00N from 3+50W to 4+50W and line 10+00N from 4+25N to 7+00W. These anomalous samples reflect known mineralized outcrop and float over Area B.

e) On line 12+00N from 3+25N to 5+00E. These anomalous samples are partially underlain by the northern diatreme-Pɛ2 contact as well as a projected major north-northeast trending fault cutting Pɛ2 phyllite. Five coincidentally anomalous Track Etch sites occur along this line.

RESULTS OF 1979 EXPLORATION PROGRAM (cont'd)

II. SPECTROMETER SURVEY (Plate 3 to 8 inclusive)

A total of 76.8 kilometres of grid line was surveyed using an Urtec UG-135 differentiating spectrometer. This instrument has a 4 cubic inch Na I (Ti) detector crystal. Readings were taken in consistent 8 inch deep holes to overcome shielding by wet moss. Two energy levels have been plotted; Total Count 1 (TC-1), all energy above 0.08 MeV, and Uranium (U), that energy between 1.66 and 1.86 MeV levels. The spectrometer results were evaluated by contouring the TC-1 data at the 200, 250 and 300 cps intervals and the U data at the 1, 1.5 and 2 cps intervals.

Detailed results of TC-1 readings are shown on Plates 3 and 4 and are summarized on Plate 5. A cluster of small discontinuous anomalies lies in the vicinity of Area A between line 0+00N and 4+00N and from 0+00E baseline to 5+00E. In addition, three larger anomalies and several smaller ones exist on the southern part of the grid. These appear to lie in a crude arcuate trend from 15S-3W in the southwest to 6S-6E in the northeast.

Detailed results of U readings are shown on Plates 6 and 7 and are summarized on Plate 8. Two large anomalies, coincident with the TC-1 anomalies, lie in the southern part of the grid

RESULTS OF 1979 EXPLORATION PROGRAM
Spectrometer Survey (cont'd)

between 15S and 6S. In addition, a large number of small scattered anomalies occur in three generalized locations as follows: over Area B (6N to 12N; 3W to 8W), near the camp (5N to 11N; 0BL to 7E), and over the centre of the claim group south of Area A and extending to the northwest of it (5S to 3N; 6E to 6W).

A comparison of the TC-1 and U results emphasizes the coincident anomalies on the southern part of the claim group as well as a definite lack of coincidence between anomalies over Areas A and B. The southern part of the claim group is underlain by PЄ1 and PЄ2 units comprised of limy siltstone, sandstone, and green chloritic phyllite. No uranium mineralization has been found within the area of these southern anomalies. The centre of the claim group, underlying Area A and much of Area B, covers the heterolithic breccia of the diatreme. Mineralization observed to date, both as float and in outcrop, has been located within Areas A and B in close proximity to the diatreme/PЄ1-PЄ2 contact.

RESULTS OF 1979 EXPLORATION PROGRAM (Cont'd)

III. TRACK ETCH SURVEY (Plate 9, Appendix "D")

The presence of buried uranium mineralization can be detected by measuring radon gas concentrations in near surface soil. Track Etch cups are designed to measure the equilibrium radon concentrations in soil gas (Terradex Corporation, Handling Instructions for Track Etch Service Cups, 1978). Radon 222, with a half-life of 3.8 days, is the gaseous radon isotope produced by uranium 238. Radon 220 (or thoron), with a half-life of 55 seconds, is the gaseous isotope produced by thorium. In the Track Etch method, special alpha particle sensitive detector strips are attached to the inside base of plastic cups. Alpha particles produced by radon leave track-like images on the detector strips. These strips are processed by a special technique and the number of tracks are recorded for each cup. The number of alpha tracks represents the average radon level in the sampling hole during the exposure period. Because of irregular high concentrations of thorium in the Nor mineralization, a special plastic membrane 'Thoron Filter' was attached to each cup.

The reconnaissance Track Etch survey consisted of 250 Terradex Track Etch cups. These were emplaced at 50 or 100 metre

RESULTS OF 1979 EXPLORATION PROGRAM
Track Etch Survey (cont'd)

stations over the central part of the property. Stations were marked with pickets showing grid location and with special flagging indicating each Track Etch cup number.

At each cup site a 40 cm (15 inches) deep trench was dug and a soil sample collected. A spectrometer reading was taken and then the Track Etch cup placed in the bottom of the trench. A plastic sheet was laid over each cup and the trench backfilled. The cups were retrieved after a six week exposure period, packaged and sent to Terradex Corporation for processing and interpretation. A copy of the processed data and interpretation by qualified Terradex personnel is contained in Appendix "D".

Correlation of anomalous Track Etch cups with soil geochemistry and spectrometer readings indicates five coincidentally anomalous soil-Track Etch sites on line 12+00N between 3+50W and 2+00E and two coincident sites on line 12+00S at 4+00W and 5+00W, No significant correlation is apparent upon comparing results of the Track Etch with the Spectrometer survey.

SUMMARY AND CONCLUSIONS

Getty Minerals Company, Limited is the recorded owner of the NOR 1 to 56 mineral claims in the Dawson Mining District, Yukon Territory. These claims are located on the eastern flank of the Southern Richardson Mountains. Access was by contract helicopter from Mile 241 on the Dempster Highway or from Caribou Lake, 8 miles north-northeast of the property. Logistical support was by float-equipped aircraft from Mayo or Dawson to Caribou Lake, or by truck along the Dempster Highway which lies 35 miles to the west.

The claims cover a diatreme which intrudes (?) a fault-bounded outlier of Precambrian rocks. Three principal lithologic units have been mapped; the diatreme of heterolithic breccia (hBx), limy siltstone (PЄ1) and phyllitic siltstone (PЄ2). Uranium mineralization in the form of brannerite occurs in altered hBx 'syenitic' float boulders and in calcareous siltstone (PЄ1-PЄ2) outcrops.

SUMMARY AND CONCLUSIONS (cont'd)

The 1979 exploration program was conducted by crews of Cordilleran Engineering and included grid preparation, soil geochemistry, a ground spectrometer survey and a Track Etch survey.

A total of 84.75 kilometres of grid line was secant chained and picketed at 25 metre stations. The two principal areas of interest (A and B) were covered by lines spaced at 25 metre intervals, the balance of the property was covered by lines spaced at 100 and 200 metre intervals. In addition, detailed 5 metre square grids, covering portions of Areas A and B, were flagged in preparation for a later surficial geology-boulder tracing program.

A total of 430 reconnaissance soil samples was collected along 17.25 kilometres of line. The results of uranium analyses indicate five anomalies, three of which may be explained by known mineralization. Of the remaining two, one, on line 8+00W, is adjacent to a fault cutting P€1 limy siltstone and P€2 chloritic phyllite and the other, on line 12+00N, is underlain by the northern contact of the diatreme with P€2 phyllite.

SUMMARY AND CONCLUSIONS (cont'd)

A total of 76.8 kilometres of line was surveyed using a Urtec UG-135 differentiating spectrometer. The results from two channels were plotted; Total Count 1 (TC-1), which measures all energy above 0.08 MeV and Uranium (U), which measures that energy between 1.66 and 1.86 MeV. Large coincident TC-1-U anomalies occur on the southern part of the claim group in an arcuate trend from 15S-3W to 6S-6E. These may represent a segment of high uranium background PЄ1-PЄ2 sediments adjacent to southwest-northeast faulting. Minor TC-1 anomalies occur over Area A. In addition, several minor U anomalies occur north of the camp, over Area B and over the centre of the property. These minor TC-1 and U anomalies are not coincident.

A reconnaissance Track Etch survey was completed over the claim group. It consisted of 250 cups laid out at 50 or 100 metre stations along seven lines spaced at 400 metre intervals. Coincidentally anomalous Track Etch and soil sites occur on lines 12+00N (5 sites) and 12+00S (2 sites). No significant correlation is apparent between the Track Etch and the spectrometer surveys.

From the results of the 1979 field program it is concluded that continued exploration is warranted. Detailed follow-up should be conducted over anomalous areas in the southern

SUMMARY AND CONCLUSIONS (cont'd)

part of the claim group in addition to over the coincident soil geochemical-Track Etch anomalies.

Respectfully submitted

CORDILLERAN ENGINEERING

M. H. Sanguinetti, P.Eng.

MHS/z
November, 1979
Vancouver,B.C.

APPENDIX "A"

STATUTORY DECLARATION

APPENDIX "A"

CANADA)
) In the matter of a geochemical and geophysical report on behalf of Getty Minerals Company, Limited
TO WIT :)

I, M. H. Sanguinetti, Agent for Getty Minerals Company, Limited of the city of Vancouver in the Province of British Columbia do solemnly declare, -

line cutting and grid preparation, geochemical soil sampling, a spectrometer survey and a Track Etch survey were conducted on the NOR 1-56 mineral claims, Dawson Mining District, Y.T., during the period June 5, 1979 to August 22, 1979 to the value of at least $22,600.

Expenditures for this work include:

Salaries and Benefits	$15,768.58
Aviation and Truck Fuel	8,229.83
Food	5,008.96
Helicopter	26,046.65
Fixed-Wing Aircraft	9,309.00
Geochemistry	1,072.35
Geophysical Rental	4,802.28
Track Etch Service	7,230.31
Rentals, services	1,765.86
Equipment	1,859.92
Travel, hotel, meals	3,369.03
Shipping	865.96
Management	9,225.80
	$94,554.53

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 British Columbia this)
28th day of November 1979

M. H. Sanguinetti

Anthony J. Pasick
A notary Public in and for the
Yukon Territory

APPENDIX "B"

PERSONNEL

PERSONNEL

Name and Address	Position
M. H. Sanguinetti, P.Eng. 1418 - 355 Burrard St. Vancouver,B.C.	Geologist
G. L. Wesa, B.Sc. 1836 Parker Street Vancouver, B.C.	Operator/Sampler
B. W. Goodacre, B.Sc., 1895 San Juan Ave. Victoria, B.C.	Operator/Sampler
K. M. Botto 235 E. 11th Street North Vancouver, B.C.	Sampler
P. R. Meidal 1815 Rosebery Ave. West Vancouver, B.C.	Sampler
M. I. Simpson 3657 Dartmouth Place Victoria, B.C.	Cook, Sampler
H.Eric Ewen 3239 Ganymede Dr. Burnaby, B.C.	Prospector
A. Muss 37 Lewis Blvd Whitehorse, Y.T.	Cook

APPENDIX "C"

WRITER'S CERTIFICATE

CORDILLERAN ENGINEERING

1418 MARINE BUILDING, 355 BURRARD STREET, VANCOUVER, BRITISH COLUMBIA V6C 2G8 TEL: (604) 681-8381

WRITER'S CERTIFICATE

I, Michael H. Sanguinetti of Vancouver, British Columbia hereby certify that:

1. I am a geologist residing at 2208 West 35th Avenue, and employed by Cordilleran Engineering of 1418 - 355 Burrard Street, Vancouver, B.C.

2. I am a graduate of the University of British Columbia, B.Sc., in 1965, and have practiced by profession since that time.

3. I am a member of the Association of Professional Engineers of the Province of British Columbia.

4. I am the author of this report which is based on the results of a field program conducted by Cordilleran Engineering during the period June 5 - August 22, 1979.

5. Field work for this program was done under my direct supervision.

CORDILLERAN ENGINEERING

M. H. Sanguinetti, B.Sc., P.Eng.
Geologist

MHS/z
November, 1979
Vancouver, B.C.

APPENDIX "D"

TRACK ETCH SERVICE PROGRAM

FOR NOR AREA

BY

TERRADEX CORPORATION

TRACK ETCH® SERVICE PROGRAM

FOR

NOR AREA

TERRADEX

TERRADEX CORPORATION

460 N. Wiget Lane
Walnut Creek, CA 94598, U.S.A
(415) 938-2545 • Telex 33-7793

October 1, 1979

Mr. M. H. Sanguinetti
Cordilleran Engineering
1418 - 355 Burrard St.
Vancouver, B.C. B6C 2G8
Canada

Dear Mr. Sanguinetti,

I am enclosing two sets of final tabulated data from your recent 250 cup Thoron Filtered Track Etch survey of the NOR Area. The Improved System Track Etch cups were utilized for this survey. The Track Etch readings are reported in units of tracks per square millimeter (T/sq.mm) and they are normalized to equivalent 30 day exposures. The data have been tabulated in two different ways for easy use; firstly by ascending Track Etch readings and secondly, by ascending serial numbers. The readings ranged from 3.0 to 415.8 T/sq.mm and the mean of the background distribution for the area was 35.8 T/sq.mm. The standard deviation of the background mean was 21.5 T/sq.mm or 60%. All statistics on the program are also included on the attached statistics sheet.

The background mean and its standard deviation are related to shallow mineralization of uranium at ppm levels. For this survey the background mean is slightly lower than the Canadian average.

High ranking points may be expressed in terms of "Z", the number of standard deviations above background. Rudimentary statistics imply that values with Z greater than three have a very low probability of belonging to the background distribution and hence are anomalous. The range of "Z" for the high ranking points in your survey are shown below together with the more conventional ratio to background.

Range of Z	# of Points	Range of T/sq.mm	Range of Ratio to Background
2 - 3	20	79.4 - 99.8	2.2 - 2.8
3 - 4	13	101.5 - 121.2	2.8 - 3.4
4 - 5	3	122.9 - 136.4	3.4 - 3.8
Over 5	11	143.4 - 415.8	4.0 - 11.6

It is highly improbable that points with Z greater than 3 are part of the background distribution; hence they are almost certainly anomalous. In this survey 27 points have a Z greater than 3, or 10.8% of the total.

This, in our experience, is a higher than average percentage and represents a good potential for mineralization, particularly if there is strong spatial clustering of high ranking points. The relatively low magnitude of the high ranking points is also not too encouraging, unless the mineralized horizon is deep or beneath relatively gas-impermeable overburden.

No base grid map was supplied but we can process it when received. It is not necessary to send us other maps or geochemical results.

It has been a pleasure to work with you on this program and we look forward to serving you again in the future.

Sincerely,

H. Ward Alter
President

HWA/kem
Enclosures

APPENDIX "E"

GEOCHEMICAL LAB REPORTS

BY

BONDAR-CLEGG AND COMPANY LTD.

BONDAR-CLEGG & COMPANY LTD.
130 PEMBERTON AVE., NORTH VANCOUVER, B.C. PHONE: 985-0681 TELEX: 04-352667

Geochemical Lab Report

Extraction Hot HNO_3 Report No. 29 - 2414 PROJECT: NOR

Method Fluorimetric From Cordilleran Engineering Ltd.

Fraction Used Date November 12, 1979

SAMPLE NO.	U ppm				SAMPLE NO.	U ppm			
2+00N - 0+00E	2				2+00N - 7+50E	4			
0+25E	0.6				7+75E	2			
0+50E	0.6				8+00E	4			
0+75E	0.6				8+25E	2			
1+00E	0.8				8+50E	4			
1+25E	8				8+75E	4			
1+50E	2				9+00E	3			
1+75E	2				2+00S - 0+00E	3			
2+00E	2				0+25E	2			
2+25E	3				0+50E	0.4			
2+50E	2				0+75E	0.4			
2+75E	3				1+00E	1			
3+00E	2				1+25E	0.6			
3+25E	2				1+50E	0.2			
3+50E	3				1+75E	0.6			
3+75E	2				2+00E	0.6			
4+00E	2				2+25E	0.4			
4+25E	2				2+50E	0.4			
4+50E	3				2+75E	0.8			
4+75E	3				3+00E	0.6			
5+00E	2				3+25E	0.6			
5+25E	1				3+50E	0.4			
5+50E	2				3+75E	0.6			
5+75E	2				4+00E	0.6			
6+00E	3				4+25E	1			
6+25E	1				4+50E	1			
6+50E	2				4+75E	2			
6+75E	2				5+00E	1			
7+00E	2				5+00E	1			
7+25E	1				5+25E	4			

BONDAR-CLEGG & COMPANY LTD.

Geochemical Lab Report

Report No. 29 - 2414

SAMPLE NO.	U ppm
2+00S - 5+50E	2
5+75E	2
6+00E	1
6+25E	2
6+50E	1
6+75E	2
7+00E	2
7+25E	3
7+50E	22
7+75E	6
8+00E	3
8+25E	1
8+50E	0.4
8+75E	0.4
9+00E	0.8
9+25E	0.4
9+50E	1
9+75E	1
10+00E	1
10+25E	0.4
10+50E	1
10+75E	0.8
11+00E	0.8
11+25E	0.8
11+50E	0.4
11+75E	1
12+00E	1
12+25E	0.8
12+50E	0.2
12+75E	1
13+00E	0.6
13+25E	1
13+50E	0.4
13+75E	0.6
14+00E	1

SAMPLE NO.	U ppm
2+00S - 14+25E	0.6
14+50E	0.6
14+75E	0.6
15+00E	0.4
8+00S - 0+50E	1
1+00E	2
1+50E	2
2+00E	1
2+50E	0.6
3+00E	2
3+00E	2
4+00E	2
4+50E	3
5+00E	3
5+50E	9
6+00E	9
6+50E	3
7+00E	3
7+50E	2
8+00E	2
8+50E	2
9+00E	2
0+00W	1
0+50W	1
1+00W	2
1+50W	1
2+00W	2
2+50W	1
3+00W	0.8
3+50W	0.8
4+00W	0.6
4+50W	1
5+00W	2
5+50W	1
6+00W	2

BONDAR-CLEGG & COMPANY LTD.

Geochemical Lab Report

Report No. 29 - 2414

SAMPLE NO.	U ppm				SAMPLE NO.	U ppm			
8+00S - 6+50W	0.8				10+00N - 8+25W	2			
7+00W	0.4				8+50W	1			
10+00N - 0+00W	3				8+75W	2			
0+25W	2				9+00W	4			
0+50W	1				9+25W	2			
0+75W	1				9+50W	1			
1+00W	0.6				9+75W	1			
1+25W	2				10+00W	1			
1+50W	2				10+50W	2			
1+75W	1				11+00W	2			
2+00W	1				11+50W	1			
2+25W	0.4								
2+50W	0.4								
2+75W	0.4								
3+00W	3								
3+25W	1								
3+50W	1								
3+75W	1								
4+00W	1								
4+25W	2								
4+50W	1								
4+75W	2								
5+00W	4								
5+25W	4								
5+50W	3								
5+75W	2								
6+00W	1								
6+25W	1								
6+50W	3								
6+75W	2								
7+00W	2								
7+25W	2								
7+50W	2								
7+75W	1								
8+00W	1								

BONDAR-CLEGG & COMPANY LTD.
1500 PEMBERTON AVE., NORTH VANCOUVER, B.C. PHONE: 985-0681 TELEX: 04-54554

Geochemical Lab Report

Extraction Hot HNO_3 Report No. 29 - 1215 PROJECT: NOR #2

Method Fluorimetric From Cordilleran Engineering Ltd.

Fraction Used Date August 13 1979

SAMPLE NO.	U ppm				SAMPLE NO.	U ppm			
L12+00N - 11+00W	1				L12+00N - 1+00E	1			
10+50W	1				1+50E	1			
10+00W	1				2+00E	3			
9+50W	1				2+50E	3			
9+00W	1				3+00E	3			
8+50W	1				3+50E	4			
8+00W	1				4+00E	3			
7+50W	1				4+50E	4			
7+00W	0.8				5+00E	3			
6+50W	1				5+50E	1			
6+00W	0.8				6+00E	1			
5+50W	0.8				L 8+00N - 11+00W	0.8			
5+00W	3				10+50W	0.8			
4+50W	0.8				10+00W	0.8			
4+00W	1				9+50W	2			
3+50W	2				9+00W	2			
3+00W	3				8+50W	0.8			
2+75W	1				8+00W	2			
2+50W	3				7+50W	2			
2+25W	5				7+00W	2			
2+00W	4				6+50W	1			
1+75W	3				6+00W	1			
1+50W	2				5+50W	1			
1+25W	4				5+00W	1			
1+00W	2				4+50W	5			
0+75W	5				4+00W	4			
0+50W	3				3+50W	2			
0+25W	5				3+00W	1			
0+00	3				2+50W	2			
0+50E	4				2+00W	2			

BONDAR-CLEGG & COMPANY LTD.

Geochemical Lab Report

Report No. 29 - 1215 Page No. 2

SAMPLE NO.	U ppm				SAMPLE NO.	U ppm			
L 8+00N - 1+50W	2				L 4+00N - 4+00W	1			
1+00W	1				3+50W	2			
0+50W	1				3+00W	2			
0+00	0.8				2+50W	2			
0+50E	1				2+00W	1			
1+00E	1				1+50W	1			
1+50E	1				1+00W	0.6			
2+00E	1				0+50W	0.8			
2+50E	1				0+00	1			
3+00E	1				0+00 A	0.6			
3+50E	0.6				0+50E	4			
4+00E	0.4				1+00E	1			
4+50E	1				1+50E	2			
5+00E	2				2+00E	2			
5+50E	2				2+50E	2			
6+00E	1				3+00E	0.8			
6+50E	1				3+50E	0.8			
7+00E	1				4+00E	0.8			
7+50E	1				4+50E	0.6			
8+00E	0.8				5+00E	0.6			
8+50E	0.8				5+50E	1			
9+00E	1				6+00E	3			
9+50E	1				6+50E	1			
10+00E	1				7+00E	0.6			
L 4+00N - 9+50W	2				7+50E	1			
9+00W	2				8+00E	2			
8+50W	0.8				8+50E	2			
8+00W	2				9+00E	0.6			
7+50W	3				9+50E	2			
7+00W	1				10+00E	0.8			
6+50W	2				10+50E	2			
6+00W	2				11+00E	1			
5+50W	2				11+50E	1			
5+00W	2				12+00E	1			
4+50W	0.6				L 0+00N - 10+00W	1			

BONDAR-CLEGG & COMPANY LTD.

Geochemical Lab Report

Report No. 29 - 1215

SAMPLE NO.	U ppm				SAMPLE NO.	U ppm			
L 0+00N - 9+50W	1				L 0+00N - 8+00E	0.8			
9+00W	2				8+50E	1			
8+50W	2				9+00E	1			
8+00W	5				9+50E	1			
7+50W	2				10+00E	1			
7+00W	2				10+50E	2			
6+50W	2				11+00E	0.8			
6+00W	2				11+50E	1			
5+50W	2				12+00E	2			
5+00W	2				L 4+00S - 7+00W	1			
4+50W	2				6+50W	1			
4+00W	2				6+00W	2			
3+50W	2				5+50W	2			
3+00W	2				5+00W	2			
2+50W	0.6				4+50W	1			
2+00W	0.4				4+00W	0.8			
1+50W	0.4				3+50W	1			
1+00W	0.6				3+00W	0.8			
0+50W	0.6				2+50W	0.6			
0+00	<0.2				2+00W	2			
0+50E	0.4				1+50W	0.6			
1+00E	3				1+00W	0.8			
1+50E	0.8				0+50W	2			
2+00E	1				0+00	0.8			
2+50E	0.8				0+50E	0.8			
3+00E	0.4				1+00E.	1			
3+50E	0.4				1+50E	2			
4+00E	0.6				2+00E	2			
4+50E	0.4				2+50E	2			
5+00E	0.4				3+00E	2			
5+50E	0.6				3+50E	1			
6+00E	0.4				4+00E	2			
6+50E	1				4+50E	3			
7+00E	0.8				5+00E	2			
7+50E	1				5+50E	6			

BONDAR-CLEGG & COMPANY LTD.

Geochemical Lab Report

Report No. 29 - 1215 Page No. 4

SAMPLE NO.	U ppm				SAMPLE NO.				
L 4+00S - 6+00E	3								
6+50E	2								
7+00E	2								
7+50E	2								
8+00E	2								
8+50E	1								
9+00E	2								
9+50E	1								
10+00E	3								
L12+00S - 6+00W	0.8								
5+00W	7								
4+00W	3								
3+00W	2								
2+00W	2								
1+00W	1								
0+00	3								
1+00E	2								
2+00E	2								
3+00E	0.8								
4+00E	0.6								
5+00E	0.6								
6+00E	1								
7+00E	1								

CORDILLERAN ENGINEERING NOR 9-28-79

DETECTOR READING (T/SQ. MM.)	CUP SERIAL NUMBER	FIELD NOTES AND DATA		
74.8	70199.	4000	0400S0300E	
75.2	70063.	1800	1200N0350E	
75.9	70103.	2000	0400N0700W	
79.4	70052.	2100	1200N0200W	
80.1	70260.	3200	1200S0700E	PE2
80.2	70104.	2200	0400N0750W	
80.6	70193.	1600	0400S0700W	
81.0	70126.	2200	0400N0850E	
83.2	70169.	2600	0000N0750E	
84.6	70133.	1000	0400N1200E	
85.5	70254.	3000	1200S0100E	
86.0	70108.	1300	0400N0950W	
88.1	70015.	2000	0800N0200W	
90.8	70211.	1800	0400S0800E	
90.8	70225.	1900	0800S0550W	
91.1	70099.	2500	0400N0500W	HBXFLT
96.2	70019.	1500	0800N0400W	HBX
96.2	70061.	2700	1200N0250E	
96.2	70085.	2400	0800N0850E	PE2FLT
96.7	70141.	3400	0000N0350W	PE2FLT
98.2	70043.	3000	1200N0650W	PE2
99.2	70020.	1700	0800N0450W	HBXPE2
99.8	70151.	2400	0000N0850W	
101.5	70224.	2800	0800S0500W	
101.5	70171.	2800	0000N0850E	
102.5	70092.	2000	0400N0150W	
102.9	70244.	3000	0800S0800E	
104.3	70049.	2200	1200N0350W	
104.5	70057.	1000	1200N0050E	
109.0	70248.	2600	1200S0100W	PE2FLT
111.3	70131.	1100	0400N1100E	
111.3	70077.	3100	0800N0450E	PE2FLT
112.2	70251.	1800	1200S0400W	
115.4	70078.	3300	0800N0500E	PE2FLT
120.2	70226.	2600	0800S0600W	
121.2	70056.	2000	1200N0000E	
122.9	70217.	3300	0800S0150W	
136.2	70219.	2400	0800S0250W	PE2FLT
136.4	70168.	2900	0000N0700E	PE2FLT
143.4	70180.	2000	0400S0050W	
155.9	70179.	2900	0400S0000E	
159.8	70170.	2100	0000N0800E	
176.3	70223.	1900	0800S0450W	
180.0	70041.	3200	1200N0750W	
192.3	70148.	2800	0000N0700W	PE2FLT
213.7	70252.	2400	1200S0500W	
242.5	70060.	2700	1200N0200E	
292.6	70059.	1700	1200N0150E	
304.5	70210.	3000	0400S0850E	
415.8	70233.	3200	0800S0250E	

CORDILLERAN ENGINEERING NOR 9-28-79

TRACK ETCH SURVEY RESULTS AND STATISTICS

VALUES GIVEN IN T/SQ. MM. NORMALIZED TO 30 DAY EXPOSURE

NO. USEFUL PTS : 250

HIGH (T/SQ. MM.): 415.8

LOW (T/SQ. MM.): 3.0

BACKGROUND MEAN (T/SQ. MM.): 35.8

STD. DEVIATION OF BKG. MEAN (T/SQ. MM.): 21.5

RELATIVE STD. DEVIATION (PERCENT): 60.1

HIGH RANKING POINTS

RANGE OF Z	NO. OF PTS.	RANGE OF T	RANGE OF RATIO TO BACKGROUND
2 - 3	20	79.4 - 99.8	2.2 - 2.8
3 - 4	13	101.5 - 121.2	2.8 - 3.4
4 - 5	3	122.9 - 136.4	3.4 - 3.8
OVER 5	11	143.4 - 415.8	4.0 - 11.6

NO. OF PTS. ABOVE Z = 3: 27

PERCENT OF TOTAL PTS. : 10.8

(Z IS THE NUMBER OF STD. DEVIATIONS ABOVE BKG. MEAN)

CORDILLERAN ENGINEERING NOR 9-28-79

CUP SERIAL NUMBER	DETECTOR READING (T/SQ. MM.)	FIELD NOTES AND DATA		
70011.	36. 1	2000	0800N0000E	
70012.	36. 1	1500	0800N0050W	
70013.	68. 1	1900	0800N0100W	
70014.	48. 1	3000	0800N0150W	
70015.	88. 1	2000	0800N0200W	
70016.	40. 1	1500	0800N0250W	
70017.	15. 6	2200	0800N0300W	HBX
70018.	16. 0	2500	0800N0350W	HBX
70019.	96. 2	1500	0800N0400W	HBX
70020.	99. 2	1700	0800N0450W	HBXPE2
70021.	36. 8	1500	0800N0500W	HBXPE2
70022.	71. 6	2700	0800N0550W	HBXPE2
70023.	13. 5	2700	0800N0600W	PE2
70024.	16. 0	2600	0800N0650W	PE2
70025.	73. 6	3200	0800N0700W	?PE2
70026.	14. 7	3000	0800N0750W	?PE2
70027.	53. 2	3800	0800N0800W	?PE2
70028.	51. 6	1500	0800N0850W	
70029.	16. 0	1000	0800N0900W	
70030.	24. 5	0900	0800N0950W	
70031.	30. 7	1000	0800N1000W	
70032.	49. 1	1000	0800N1050W	
70033.	28. 6	1200	0800N1100W	
70034.	32. 7	0700	1200N1100W	
70035.	20. 5	0400	1200N1050W	
70036.	11. 0	0700	1200N1000W	
70037.	49. 1	1500	1200N0950W	
70038.	16. 0	1000	1200N0900W	
70039.	39. 3	1000	1200N0850W	
70040.	57. 3	1300	1200N0800W	
70041.	180. 0	3200	1200N0750W	
70042.	63. 4	3500	1200N0700W	PE2
70043.	98. 2	3000	1200N0650W	PE2
70044.	43. 0	1500	1200N0600W	PE2
70045.	32. 7	1000	1200N0550W	?PE2
70046.	52. 2	2500	1200N0500W	PE2
70047.	28. 6	2500	1200N0450W	HBXPE2
70048.	24. 5	1400	1200N0400W	MSHEHBX
70049.	104. 3	2200	1200N0350W	
70050.	63. 1	2500	1200N0300W	HBXFLT
70051.	43. 9	1700	1200N0250W	
70052.	79. 4	2100	1200N0200W	
70053.	12. 5	1400	1200N0150W	
70054.	20. 9	2100	1200N100W	
70055.	54. 3	0600	1200N0050W	
70056.	121. 2	2000	1200N0000E	
70057.	104. 5	1000	1200N0050E	
70058.	66. 9	0500	1200N0100E	
70059.	292. 6	1700	1200N0150E	
70060.	242. 5	2700	1200N0200E	

CORDILLERAN ENGINEERING NOR 9-28-79

CUP SERIAL NUMBER	DETECTOR READING (T/SQ. MM.)	FIELD NOTES AND DATA			
70061.	96. 2	2700	1200N0250E		
70062.	32. 6	1600	1200N0300E		
70063.	75. 2	1800	1200N0350E		
70064.	33. 4	1600	1200N0400E		
70065.	37. 6	3000	1200N0450E		
70066.	30. 1	1200	1200N0500E		
70067.	37. 6	1000	1200N0550E		
70068.	54. 3	1200	1200N0600E		
70069.	41. 8	1300	0800N0050E		
70070.	8. 4	2200	0800N0100E		
70071.	45. 5	1400	0800N0150E		
70072.	40. 5	1300	0800N0200E		
70073.	7. 6	1600	0800N0250E		
70074.	44. 0		0800N0300E		PE2FLT
70075.	13. 7		0800N0350E		
70076.	35. 4	3200	0800N0400E		
70077.	111. 3	3100	0800N0450E		PE2FLT
70078.	115. 4	3300	0800N0500E		PE2FLT
70079.	30. 4	2600	0800N0550E		PE2FLT
70080.	10. 6	3100	0800N0600E		PE2FLT
70081.	22. 8	2600	0800N0650E		PE2FLT
70082.	21. 3	2600	0800N0700E		PE2FLT
70083.	12. 1	2500	0800N0750E		PE2FLT
70084.	33. 4	2500	0800N0800E		PE2FLT
70085.	96. 2	2400	0800N0850E		PE2FLT
70086.	6. 1	1800	0800N0900E		
70087.	65. 8	1700	0800N0950E		
70088.	58. 8	1500	0800N1000E		
70089.	16. 7	2300	0400N0000E		PE1FLT
70090.	15. 2	3800	0400N0050W		PE2FLT
70091.	15. 2	2200	0400N0100W		PE2FLT
70092.	102. 5	2000	0400N0150W		
70093.	65. 8	2600	0400N0200W		
70094.	62. 6	2300	0400N0250W		
70095.	65. 8	2400	0400N0300W		
70096.	25. 8	2600	0400N0350W		HBX
70097.	45. 5	2500	0400N0400W		HBXFLT
70098.	4. 6	2300	0400N0450W	RDGRT	PE2FLT
70099.	91. 1	2500	0400N0500W		HBXFLT
70100.	7. 6	2000	0400N0550W		
70101.	54. 7	1700	0400N0600W		PE2FLT
70102.	25. 3	1500	0400N0650W		
70103.	75. 9	2000	0400N0700W		
70104.	80. 2	2200	0400N0750W		
70105.	41. 0	1900	0400N0800W		
70106.	36. 4	900	0400N0850W		
70107.	50. 6	1600	0400N0900W		
70108.	86. 0	1300	0400N0950W		
70109.	18. 2	1700	0400N1000W		
70110.	3. 0	4300	0400N0050E		

CORDILLERAN ENGINEERING NOR 9-28-79

CUP SERIAL NUMBER	DETECTOR READING (T/SQ. MM.)	FIELD NOTES AND DATA		
70111.	15.2	4200	0400N0100E	PE1FLT
70112.	45.5	3800	0400N0150E	
70113.	10.1	5200	0400N0200E	
70114.	10.6	4300	0400N0250E	PE1FLT
70115.	10.6	4400	0400N0300E	
70116.	35.4	4100	0400N0350E	
70117.	18.2	4600	0400N0400E	PE2FLT
70118.	25.3	3200	0400N0450E	
70119.	24.3	3500	0400N0500E	PE2
70120.	28.8	2600	0400N0550E	
70121.	65.8	3200	0400N0600E	
70122.	35.4	3200	0400N0650E	
70123.	15.2	3100	0400N0700E	
70124.	65.8	2200	0400N0750E	
70125.	44.0	2300	0400N0800E	
70126.	81.0	2200	0400N0850E	
70127.	53.1	1400	0400N0900E	
70128.	40.5	1900	0400N0950E	
70129.	38.0	1500	0400N1000E	5MSEOFSTREAM
70130.	34.9	1700	0400N1050E	
70131.	111.3	1100	0400N1100E	
70132.	10.6	1600	0400N1150E	
70133.	84.6	1000	0400N1200E	
70134.	20.8	2100	0000N0000E	HBX
70135.	15.6	2200	0000N0050W	
70136.	31.2	2700	0000N0100W	
70137.	14.0	3000	0000N0150W	PE2FLT
70138.	14.0	3600	0000N0200W	
70139.	17.2	3400	0000N0250W	PE2FLT
70140.	36.4	2900	0000N0300W	PE2FLT
70141.	96.7	3400	0000N0350W	PE2FLT
70142.	31.2	2700	0000N0400W	
70143.	10.4	2100	0000N0450W	PE2FLT
70144.	31.2	2600	0000N0500W	PE2FLT
70145.	52.0	3200	0000N0550W	PE2FLT
70146.	31.2	2300	0000N0600W	
70147.	29.6	2500	0000N0650W	
70148.	192.3	2800	0000N0700W	PE2FLT
70149.	46.8	2200	0000N0750W	
70150.	57.2	2300	0000N0800W	
70151.	99.8	2400	0000N0850W	
70152.	41.6	1400	0000N0900W	
70153.	62.4	2300	0000N0950W	
70154.	45.2	3200	0000N1000W	
70155.	26.0	2200	0000N0050E	HBXFLT
70156.	15.6	3100	0000N0100E	HBXFLT
70157.	10.9	2800	0000N0150E	
70158.	14.0	3500	0000N0200E	
70159.	5.2	3500	0000N0250E	
70160.	10.9	3500	0000N0300E	PE2FLT

CORDILLERAN ENGINEERING NOR 9-28-79

CUP SERIAL NUMBER	DETECTOR READING (T/SQ. MM.)	FIELD NOTES AND DATA		
70161.	31.2	3700	0000N0350E	
70162.	52.0	3800	0000N0400E	
70163.	14.0	2600	0000N0450E	
70164.	26.0	3200	0000N0500E	
70165.	31.2	3200	0000N0550E	
70166.	46.8	2900	0000N0600E	PE2FLT
70167.	62.4	3000	0000N0650E	
70168.	136.4	2900	0000N0700E	PE2FLT
70169.	83.2	2600	0000N0750E	
70170.	159.8	2100	0000N0800E	
70171.	101.5	2800	0000N0850E	
70172.	43.3	800	0000N0900E	
70173.	53.4	1800	0000N0950E	
70174.	32.1	2000	0000N1000E	
70175.	46.5	1600	0000N1050E	
70176.	36.9	900	0000N1100E	
70177.	65.7	1200	0000N1150E	
70178.	69.4	1000	0000N1200E	
70179.	155.9	2900	0400S0000E	
70180.	143.4	2000	0400S0050W	
70181.	20.8	2500	0400S0100W	
70182.	18.7	2100	0400S0150W	PE2
70183.	34.3	3000	0400S0200W	
70184.	20.3	2600	0400S0250W	
70185.	15.6	2400	0400S0350W	
70186.	31.2	2000	0400S0350W	PE2FLT
70187.	12.5	3200	0400S0400W	
70188.	62.4	3000	0400S0450W	
70189.	18.7	2400	0400S0500W	PE2FLT
70190.	28.1	2500	0400S0550W	
70191.	26.0	2300	0400S0600W	
70192.	57.2	1900	0400S0650W	
70193.	80.6	1600	0400S0700W	
70194.	64.1	2600	0400S0050E	
70195.	14.4	3600	0400S0100E	
70196.	26.7	4200	0400S0150E	
70197.	37.4	3200	0400S0200E	
70198.	37.4	3800	0400S0250E	
70199.	74.8	4000	0400S0300E	
70200.	35.3	3800	0400S0350E	PE2FLT
70201.	12.0	3000	0400S0400E	PE2FLT
70202.	48.1	2900	0400S0450E	PE2FLT
70203.	21.4	2700	0400S0500E	
70204.	9.6	2400	0400S0550E	
70205.	21.4	3600	0400S0600E	
70206.	16.0	3500	0400S0650E	
70207.	16.0	4000	0400S0700E	PE2FLT
70208.	12.8	3200	0400S0750E	PE2FLT
70209.	32.1	2700	0400S0800E	PE2FLT
70210.	304.5	3000	0400S0850E	

CORDILLERAN ENGINEERING NOR 9-28-79

CUP SERIAL NUMBER	DETECTOR READING (T/SQ. MM.)	FIELD NOTES AND DATA	
70211.	90. 8	1800 0400S0800E	
70212.	21. 4	1400 0400S0850E	
70213.	24. 0	1600 0400S0900E	
70214.	37. 4	3400 0800S0000E	
70215.	26. 7	3500 0800S0050W	
70216.	32. 1	2800 0800S0100W	PE2FLT
70217.	122. 9	3300 0800S0150W	
70218.	53. 4	2100 0800S0200W	
70219.	136. 2	2400 0800S0250W	PE2FLT
70220.	14. 4	2600 0800S0300W	MSHE
70221.	9. 6	1700 0800S0350W	PE2FLT
70222.	17. 6	2200 0800S0400W	
70223.	176. 3	1900 0800S0450W	
70224.	101. 5	2800 0800S0500W	
70225.	90. 8	1900 0800S0550W	
70226.	120. 2	2600 0800S0600W	
70227.	17. 6	2600 0800S0650W	
70228.	42. 7	2200 0800S0700W	PE2
70229.	45. 2	1500 0800S0050E	PE2FLT
70230.	10. 4	3100 0800S 0100E	
70231.	18. 7	3700 0800S0150E	
70232.	21. 8	4000 0800S0200E	
70233.	415. 8	3200 0800S0250E	
70234.	12. 5	3900 0800S0300E	
70235.	46. 8	4700 0800S0350E	
70236.	31. 2	4600 0800S0400E	
70237.	9. 4	4800 0800S0450E	
70238.	31. 2	4500 0800S0500E	
70239.	52. 0	4700 0800S0550E	
70240.	23. 4	4400 0800S0600E	
70241.	46. 8	4200 0800S0650E	
70242.	52. 0	3800 0800S0700E	
70243.	34. 3	4100 0800S0750E	
70244.	102. 9	3000 0800S0800E	
70245.	18. 7	2700 0800S0850E	
70246.	36. 4	3200 0800S0900E	
70247.	58. 8	3400 1200S0000E	
70248.	109. 0	2600 1200S0100W	PE2FLT
70249.	10. 7	4300 1200S0200W	
70250.	43. 3	3800 1200S0300W	
70251.	112. 2	1800 1200S0400W	
70252.	213. 7	2400 1200S0500W	
70253.	26. 7	1400 1200S0600W	
70254.	85. 5	3000 1200S0100E	
70255.	19. 2	2800 1200S0200E	
70256.	8. 0	3400 1200S0300E	PE2FLT
70257.	21. 4	3000 1200S0400E	PE2FLT
70258.	17. 6	3400 1200S0500E	
70259.	10. 7	3400 1200S0600E	PE2FLT
70260.	80. 1	3200 1200S0700E	PE2

CORDILLERAN ENGINEERING NOR 9-28-79

DETECTOR READING (T/SQ. MM.)	CUP SERIAL NUMBER	FIELD NOTES AND DATA		
3.0	70110.	4300	0400N0050E	
4.6	70098.	2300	0400N0450W RDGRT	PE2FLT
5.2	70159.	3500	0000N0250E	
6.1	70086.	1800	0800N0900E	
7.6	70073.	1600	0800N0250E	
7.6	70100.	2000	0400N0550W	
8.0	70256.	3400	1200S0300E	PE2FLT
8.4	70070.	2200	0800N0100E	
9.4	70237.	4800	0800S0450E	
9.6	70221.	1700	0800S0350W	PE2FLT
9.6	70204.	2400	0400S0550E	
10.1	70113.	5200	0400N0200E	
10.4	70143.	2100	0000N0450W	PE2FLT
10.4	70230.	3100	0800S 0100E	
10.6	70115.	4400	0400N0300E	
10.6	70080.	3100	0800N0600E	PE2FLT
10.6	70132.	1600	0400N1150E	
10.6	70114.	4300	0400N0250E	PE1FLT
10.7	70259.	3400	1200S0600E	PE2FLT
10.7	70249.	4300	1200S0200W	
10.9	70157.	2800	0000N0150E	
10.9	70160.	3500	0000N0300E	PE2FLT
11.0	70036.	0700	1200N1000W	
12.0	70201.	3000	0400S0400E	PE2FLT
12.1	70083.	2500	0800N0750E	PE2FLT
12.5	70187.	3200	0400S0400W	
12.5	70234.	3900	0800S0300E	
12.5	70053.	1400	1200N0150W	
12.8	70208.	3200	0400S0750E	PE2FLT
13.5	70023.	2700	0800N0600W	PE2
13.7	70075.		0800N0350E	
14.0	70138.	3600	0000N0200W	
14.0	70163.	2600	0000N0450E	
14.0	70158.	3500	0000N0200E	
14.0	70137.	3000	0000N0150W	PE2FLT
14.4	70220.	2600	0800S0300W	MSHE
14.4	70195.	3600	0400S0100E	
14.7	70026.	3000	0800N0750W	?PE2
15.2	70111.	4200	0400N0100E	PE1FLT
15.2	70090.	3800	0400N0050W	PE2FLT
15.2	70091.	2200	0400N0100W	PE2FLT
15.2	70123.	3100	0400N0700E	
15.6	70156.	3100	0000N0100E	HBXFLT
15.6	70185.	2400	0400S0350W	
15.6	70135.	2200	0000N0050W	
15.6	70017.	2200	0800N0300W	HBX
16.0	70024.	2600	0800N0650W	PE2
16.0	70038.	1000	1200N0900W	
16.0	70029.	1000	0800N0900W	
16.0	70206.	3500	0400S0650E	

CORDILLERAN ENGINEERING NOR 9-28-79

DETECTOR READING (T/SQ. MM.)	CUP SERIAL NUMBER	FIELD NOTES AND DATA		
16.0	70018.	2500	0800N0350W	HBX
16.0	70207.	4000	0400S0700E	PE2FLT
16.7	70089.	2300	0400N0000E	PE1FLT
17.2	70139.	3400	0000N0250W	PE2FLT
17.6	70222.	2200	0800S0400W	
17.6	70258.	3400	1200S0500E	
17.6	70227.	2600	0800S0650W	
18.2	70117.	4600	0400N0400E	PE2FLT
18.2	70109.	1700	0400N1000W	
18.7	70182.	2100	0400S0150W	PE2
18.7	70245.	2700	0800S0850E	
18.7	70189.	2400	0400S0500W	PE2FLT
18.7	70231.	3700	0800S0150E	
19.2	70255.	2800	1200S0200E	
20.3	70184.	2600	0400S0250W	
20.5	70035.	0400	1200N1050W	
20.8	70134.	2100	0000N0000E	HBX
20.8	70181.	2500	0400S0100W	
20.9	70054.	2100	1200N100W	
21.3	70082.	2600	0800N0700E	PE2FLT
21.4	70212.	1400	0400S0850E	
21.4	70257.	3000	1200S0400E	PE2FLT
21.4	70205.	3600	0400S0600E	
21.4	70203.	2700	0400S0500E	
21.8	70232.	4000	0800S0200E	
22.8	70081.	2600	0800N0650E	PE2FLT
23.4	70240.	4400	0800S0600E	
24.0	70213.	1600	0400S0900E	
24.3	70119.	3500	0400N0500E	PE2
24.5	70048.	1400	1200N0400W	MSHEHBX
24.5	70030.	0900	0800N0950W	
25.3	70118.	3200	0400N0450E	
25.3	70102.	1500	0400N0650W	
25.8	70096.	2600	0400N0350W	HBX
26.0	70164.	3200	0000N0500E	
26.0	70191.	2300	0400S0600W	
26.0	70155.	2200	0000N0050E	HBXFLT
26.7	70196.	4200	0400S0150E	
26.7	70253.	1400	1200S0600W	
26.7	70215.	3500	0800S0050W	
28.1	70190.	2500	0400S0550W	
28.6	70033.	1200	0800N1100W	
28.6	70047.	2500	1200N0450W	HBXPE2
28.8	70120.	2600	0400N0550E	
29.6	70147.	2500	0000N0650W	
30.1	70066.	1200	1200N0500E	
30.4	70079.	2600	0800N0550E	PE2FLT
30.7	70031.	1000	0800N1000W	
31.2	70236.	4600	0800S0400E	
31.2	70136.	2700	0000N0100W	

CORDILLERAN ENGINEERING NOR 9-28-79

DETECTOR READING (T/SQ. MM.)	CUP SERIAL NUMBER	FIELD NOTES AND DATA		
31.2	70144.	2600	0000N0500W	PE2FLT
31.2	70186.	2000	0400S0350W	PE2FLT
31.2	70146.	2300	0000N0600W	
31.2	70142.	2700	0000N0400W	
31.2	70238.	4500	0800S0500E	
31.2	70161.	3700	0000N0350E	
31.2	70165.	3200	0000N0550E	
32.1	70216.	2800	0800S0100W	PE2FLT
32.1	70174.	2000	0000N1000E	
32.1	70209.	2700	0400S0800E	PE2FLT
32.6	70062.	1600	1200N0300E	
32.7	70034.	0700	1200N1100W	
32.7	70045.	1000	1200N0550W	?PE2
33.4	70084.	2500	0800N0800E	PE2FLT
33.4	70064.	1600	1200N0400E	
34.3	70183.	3000	0400S0200W	
34.3	70243.	4100	0800S0750E	
34.9	70130.	1700	0400N1050E	
35.3	70200.	3800	0400S0350E	PE2FLT
35.4	70076.	3200	0800N0400E	
35.4	70116.	4100	0400N0350E	
35.4	70122.	3200	0400N0650E	
36.1	70011.	2000	0800N0000E	
36.1	70012.	1500	0800N0050W	
36.4	70140.	2900	0000N0300W	PE2FLT
36.4	70246.	3200	0800S0900E	
36.4	70106.	900	0400N0850W	
36.8	70021.	1500	0800N0500W	HBXPE2
36.9	70176.	900	0000N1100E	
37.4	70197.	3200	0400S0200E	
37.4	70214.	3400	0800S0000E	
37.4	70198.	3800	0400S0250E	
37.6	70065.	3000	1200N0450E	
37.6	70067.	1000	1200N0550E	
38.0	70129.	1500	0400N1000E	5MSEOFSTREAM
39.3	70039.	1000	1200N0850W	
40.1	70016.	1500	0800N0250W	
40.5	70072.	1300	0800N0200E	
40.5	70128.	1900	0400N0950E	
41.0	70105.	1900	0400N0800W	
41.6	70152.	1400	0000N0900W	
41.8	70069.	1300	0800N0050E	
42.7	70228.	2200	0800S0700W	PE2
43.0	70044.	1500	1200N0600W	PE2
43.3	70172.	800	0000N0900E	
43.3	70250.	3800	1200S0300W	
43.9	70051.	1700	1200N0250W	
44.0	70125.	2300	0400N0800E	
44.0	70074.		0800N0300E	PE2FLT
45.2	70229.	1500	0800S0050E	PE2FLT

CORDILLERAN ENGINEERING NOR 9-28-79

DETECTOR READING (T/SQ. MM.)	CUP SERIAL NUMBER	FIELD NOTES AND DATA	
45.2	70154.	3200 0000N1000W	
45.5	70071.	1400 0800N0150E	
45.5	70097.	2500 0400N0400W	HBXFLT
45.5	70112.	3800 0400N0150E	
46.5	70175.	1600 0000N1050E	
46.8	70235.	4700 0800S0350E	
46.8	70241.	4200 0800S0650E	
46.8	70149.	2200 0000N0750W	
46.8	70166.	2900 0000N0600E	PE2FLT
48.1	70202.	2900 0400S0450E	PE2FLT
48.1	70014.	3000 0800N0150W	
49.1	70037.	1500 1200N0950W	
49.1	70032.	1000 0800N1050W	
50.6	70107.	1600 0400N0900W	
51.6	70028.	1500 0800N0850W	
52.0	70239.	4700 0800S0550E	
52.0	70145.	3200 0000N0550W	PE2FLT
52.0	70242.	3800 0800S0700E	
52.0	70162.	3800 0000N0400E	
52.2	70046.	2500 1200N0500W	PE2
53.1	70127.	1400 0400N0900E	
53.2	70027.	3800 0800N0800W	?PE2
53.4	70173.	1800 0000N0950E	
53.4	70218.	2100 0800S0200W	
54.3	70055.	0600 1200N0050W	
54.3	70068.	1200 1200N0600E	
54.7	70101.	1700 0400N0600W	PE2FLT
57.2	70192.	1900 0400S0650W	
57.2	70150.	2300 0000N0800W	
57.3	70040.	1300 1200N0800W	
58.8	70247.	3400 1200S0000E	
58.8	70088.	1500 0800N1000E	
62.4	70153.	2300 0000N0950W	
62.4	70167.	3000 0000N0650E	
62.4	70188.	3000 0400S0450W	
62.6	70094.	2300 0400N0250W	
63.1	70050.	2500 1200N0300W	HBXFLT
63.4	70042.	3500 1200N0700W	PE2
64.1	70194.	2600 0400S0050E	
65.7	70177.	1200 0000N1150E	
65.8	70087.	1700 0800N0950E	
65.8	70121.	3200 0400N0600E	
65.8	70095.	2400 0400N0300W	
65.8	70093.	2600 0400N0200W	
65.8	70124.	2200 0400N0750E	
66.9	70058.	0500 1200N0100E	
68.1	70013.	1900 0800N0100W	
69.4	70178.	1000 0000N1200E	
71.6	70022.	2700 0800N0550W	HBXPE2
73.6	70025.	3200 0800N0700W	?PE2

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NOR 1
NOR 2
CAMP
W.L. 652.0

NOTE

1 CLAIM LENGTH = 457.2 m = 1500 ft
COMPASS DECLINATION 34°30' E 1979
CONTOUR INTERVAL 20 METRES
POSTS NOT TIED IN
POST TIED IN

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
M. H. SANGUINETTI

GETTY MINERALS LIMITED

NOR PROJECT

CLAIM MAP

DAWSON MINING DISTRICT, YUKON TERRITORY
N.T.S. 106 L-3,-6

200 100 0 100 200 300 400
SCALE IN METRES
1:5000

BY
CORDILLERAN ENGINEERING
1418 - 355 BURRARD STREET
VANCOUVER, B.C. V6C 2G8

NOVEMBER, 1979

PLATE I

McELHANNEY 06552-0

BL 3+00 W

L 2+00 N

L 10+00 N

AREA "B"

CAMP

L 8+00 N

L 4+00 N

L 2+00 N

L 0+00

AREA "A"

L 2+00 S

L 4+00 S

L 8+00 S

L 12+00 S

BL 0+00

W.L. 652.0

LEGEND

- Diamond drill hole.
- Soil sample site and uranium content in parts per million(ppm).

URANIUM CONTENT OF SOILS (P.P.M.)

Background	0 —	1
Above Background	1.1 —	2
Anomalous	2.1 —	3
Strongly Anomalous	3 +	

PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — M. H. BRANCHFLOWER

GETTY MINERALS LIMITED

NOR PROJECT

SOIL GEOCHEMISTRY – URANIUM

DAWSON MINING DISTRICT, YUKON TERRITORY

N.T.S. 106 L-3, L-6

100 0 100 200 300 400

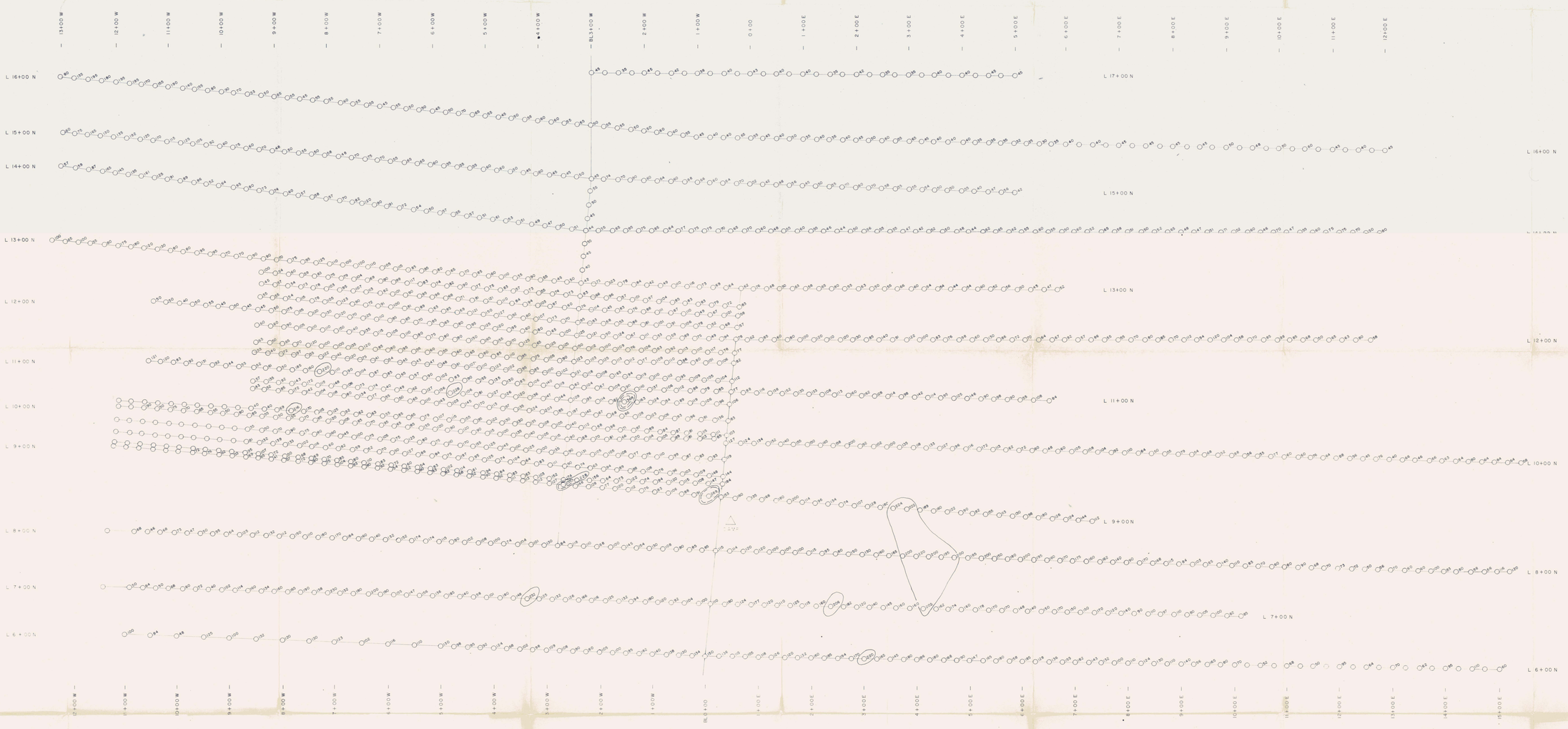
SCALE IN METRES
1:5000

BY

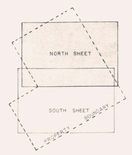
CORDILLERAN ENGINEERING
1418-355 BURRARD STREET
VANCOUVER, B.C. V6C 2G8

NOVEMBER 1979

PLATE 2



KEY



LEGEND

SURVEY STATION. READINGS IN COUNTS PER SECOND (CPS)

200 CPS CONTOUR

250 CPS CONTOUR

300 CPS CONTOUR

INSTRUMENT : Urtec U G-135 spectrometer containing a 4 cubic inch NaI (Tl) crystal.

CHANNEL : TC-I. This detects all gamma radiation greater than 0.08 MeV.

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
M. H. [illegible] SMYTH

GETTY MINERALS LIMITED

NOR PROJECT

SPECTROMETER SURVEY
TC-I CHANNEL

DAWSON MINING DISTRICT, YUKON TERRITORY

N.T.S. 106 L-3,L-6

50 0 50 100 150 200 250 300

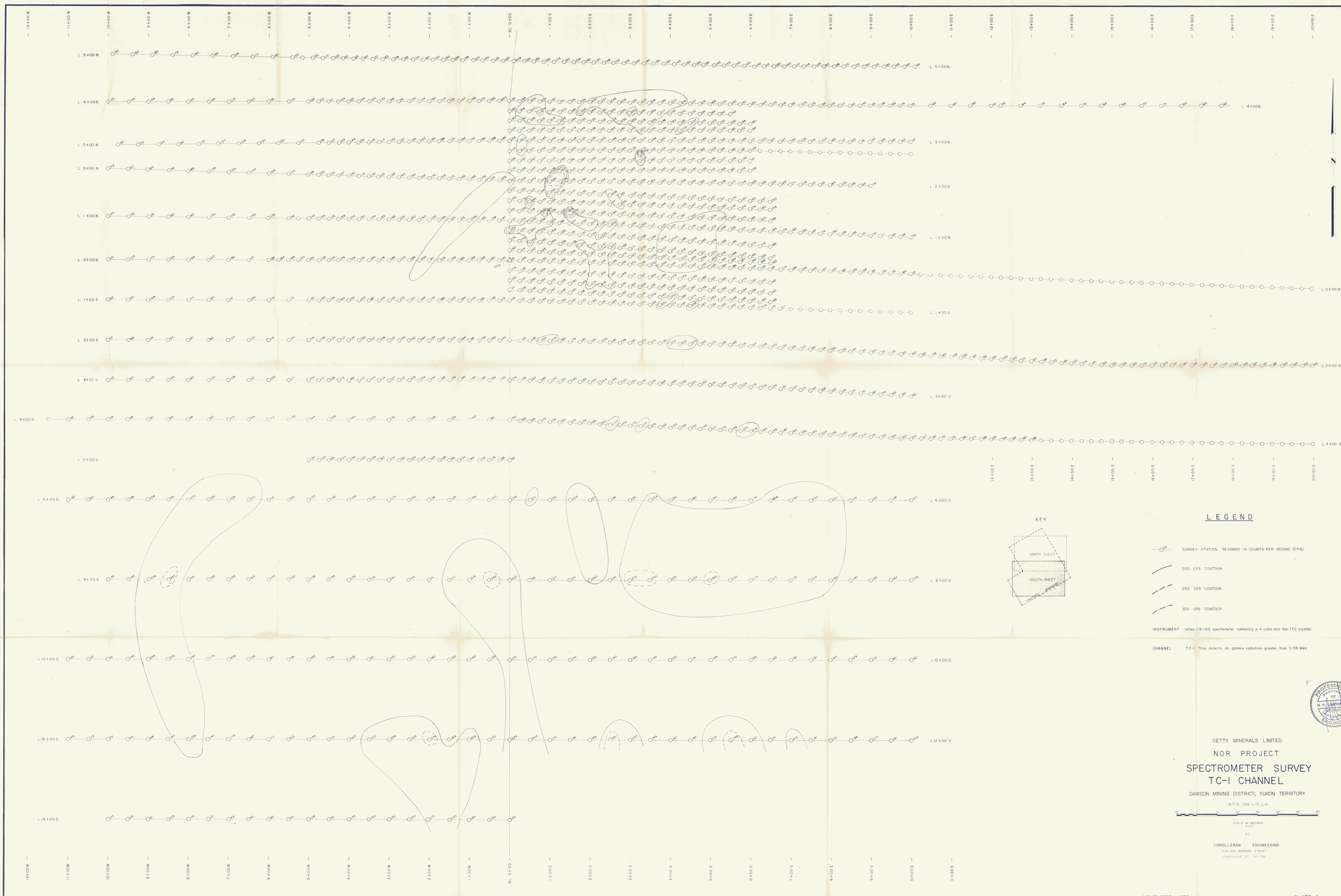
SCALE IN METRES
1:2500

BY

CORDILLERAN ENGINEERING
1416-355 BURRARD STREET
VANCOUVER, B.C. V6C 2G8

NOVEMBER 1979

PLATE 3



KEY

LEGEND

- SURVEY STATION. READINGS IN COUNTS PER SECOND (CPS)
- 200 CPS CONTOUR
- 250 CPS CONTOUR
- 300 CPS CONTOUR

INSTRUMENT : Urtec UG-135 spectrometer containing a 4 cubic inch NaI (Tl) crystal.

CHANNEL : TC-I. This detects all gamma radiation greater than 0.08 MeV.

PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — M. H. CORDILLERAN

GETTY MINERALS LIMITED

NOR PROJECT

SPECTROMETER SURVEY
TC-I CHANNEL

DAWSON MINING DISTRICT, YUKON TERRITORY

N.T.S. 106 L-3, L-6

SCALE IN METRES
1:2500

BY

CORDILLERAN ENGINEERING
1418-330 BURRARD STREET
VANCOUVER, B.C. V6C 2G8

NOVEMBER 1979

PLATE 4

PLATE 5

NOVEMBER 1979

GETTY MINERALS LIMITED

NOR PROJECT

SPECTROMETER SURVEY

U CHANNEL

DAWSON MINING DISTRICT, YUKON TERRITORY

N.T.S. 106 L-3,L-6

SCALE 1: METRES

2500

0 50 100 150 200 250

CONSOLIDATED ENGINEERING

1418-355 DUNSMUIR STREET

VANCOUVER, B.C. V6E 2G8

BY

INSTRUMENT : Unec UG-135 spectrometer containing a 4 cubic inch NaI(Tl) crystal.

CHANNEL : U - This detects all gamma radiation within the 1.66 to 1.86 MeV range

LEGEND

0.3 SURVEY STATION. READINGS IN COUNTS PER SECOND (CPS)

1.0 CPS CONTOUR

1.5 CPS CONTOUR

2.0 CPS CONTOUR

KEY

NORTH SHEET

SOUTH SHEET

PROFESSIONAL ENGINEER

BRITISH COLUMBIA

CAMP

BL 3+00 W

L 6+00 N

L 7+00 N

L 8+00 N

L 9+00 N

L 10+00 N

L 11+00 N

L 12+00 N

L 13+00 N

L 14+00 N

L 15+00 N

L 16+00 N

L 17+00 N

0+00

1+00 E

2+00 E

3+00 E

4+00 E

5+00 E

6+00 E

7+00 E

8+00 E

9+00 E

10+00 E

11+00 E

12+00 E

1+00 W

2+00 W

3+00 W

4+00 W

5+00 W

6+00 W

7+00 W

8+00 W

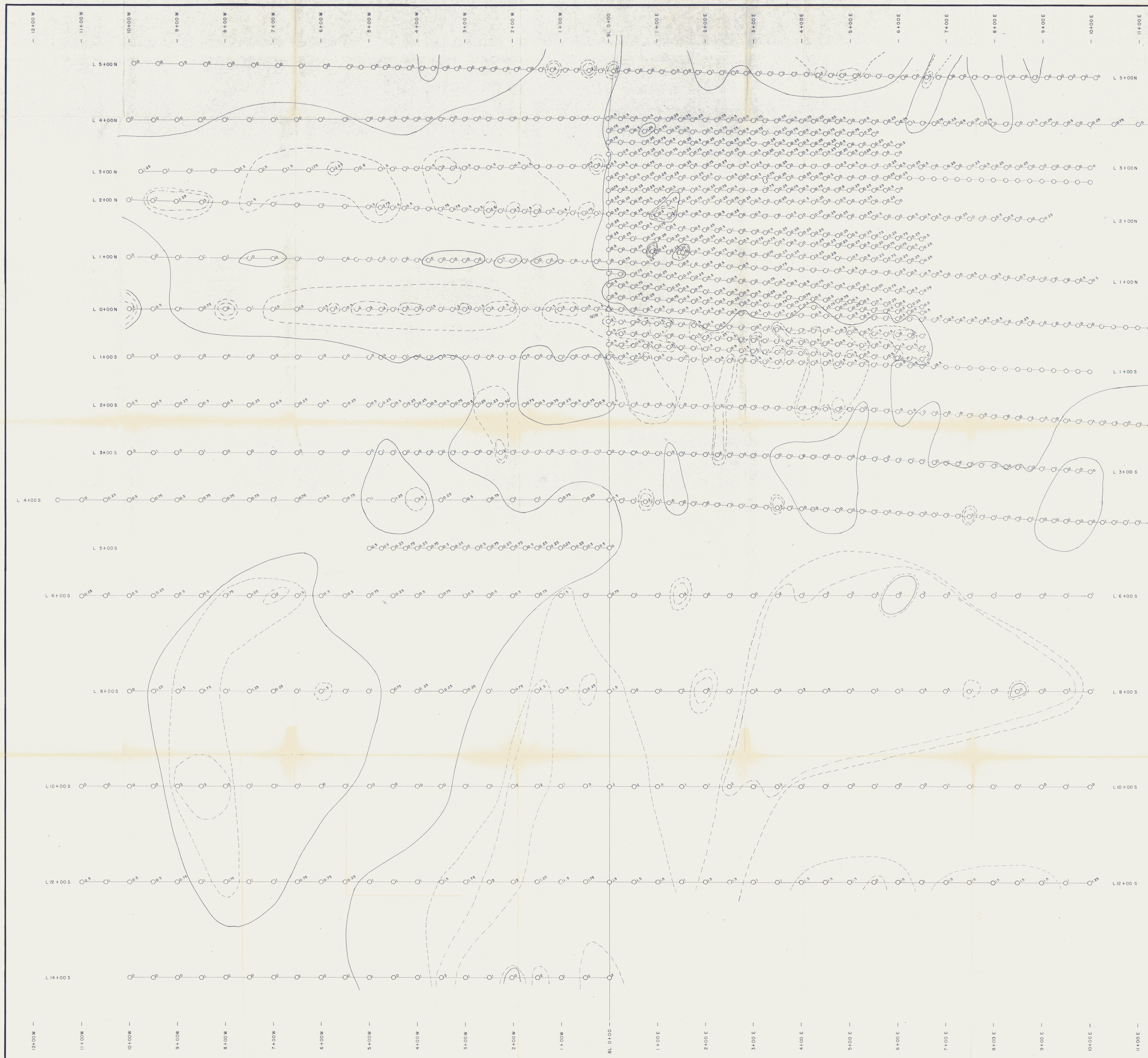
9+00 W

10+00 W

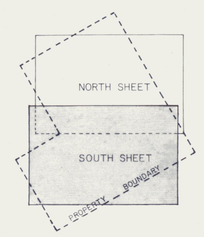
11+00 W

12+00 W

13+00 W



KEY



LEGEND

0.5 SURVEY STATION : READINGS IN COUNTS PER SECOND (CPS)

1.0 CPS CONTOUR

1.5 CPS CONTOUR

2.0 CPS CONTOUR

INSTRUMENT : Urtec UG-135 spectrometer containing a 4 cubic inch NaI(Tl) crystal.

CHANNEL : U . This detects all gamma radiation within the 1.66 to 1.86 MeV range.

PROFESSIONAL ENGINEER M. A. CORDILLERAN BRITISH COLUMBIA

GETTY MINERALS LIMITED

NOR PROJECT

SPECTROMETER SURVEY U CHANNEL

DAWSON MINING DISTRICT, YUKON TERRITORY

N.T.S. 106 L-3, L-6

SCALE IN METRES
1:2500

BY

CORDILLERAN ENGINEERING
1418-355 BURRARD STREET
VANCOUVER, B.C. V6C 2G8

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PLATE 6

BL 3+00 W

L 12+00 N

L 10+00 N

L 8+00 N

L 4+00 N

L 2+00 N

L 0+00

L 2+00 S

L 4+00 S

L 8+00 S

L 12+00 S

BL 0+00

AREA "A"

AREA "B"

CAMP

W.L. 652.0

LEGEND

150 COUNTS PER SECOND CONTOUR

200 COUNTS PER SECOND CONTOUR

INSTRUMENT : Urtec UG-135 spectrometer containing a 4 inch Na(Ti) crystal.

CHANNEL : TC-1. This detects all gamma radiation greater than 0.08 MeV.

● Diamond drill hole.

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
M. H. SANGUINETTI

GETTY MINERALS LIMITED

NOR PROJECT

SPECTROMETER SURVEY
TC-1 CHANNEL

DAWSON MINING DISTRICT, YUKON TERRITORY

N.T.S 106 L-3, L-6

100 0 100 200 300 400

SCALE IN METRES
1:5000

BY

CORDILLERAN ENGINEERING
1418-355 BURRARD STREET
VANCOUVER, B.C. V6C 2G8

NOVEMBER 1979

PLATE 7

BL 3+00 W

L 12+00 N

L 10+00 N

L 8+00 N

L 4+00 N

L 2+00 N

L 0+00

L 2+00 S

L 4+00 S

L 8+00 S

L 12+00 S

BL 0+00

AREA "A"

AREA "B"

CAMP

W.L. 652.0

LEGEND

1.50 COUNTS PER SECOND CONTOUR

2.00 COUNTS PER SECOND CONTOUR

INSTRUMENT : Urtec UG-135 spectrometer containing a 4 inch Na(Ti) crystal.

CHANNEL : U. This detects all gamma radiation within the 1.66 to 1.86 MeV range.

● DDH Diamond drill hole.

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
M. H. SANGUINETTI

GETTY MINERALS LIMITED

NOR PROJECT

SPECTROMETER SURVEY
U CHANNEL

DAWSON MINING DISTRICT, YUKON TERRITORY

N.T.S 106 L-3, L-6

SCALE IN METRES
1:5000

BY

CORDILLERAN ENGINEERING
1418-355 BURRARD STREET
VANCOUVER, B.C. V6C 2G8

NOVEMBER 1979

PLATE 8

L 12+00 N

L 10+00 N

L 8+00 N

L 4+00 N

L 2+00 N

L 0+00

L 2+00 S

L 4+00 S

L 8+00 S

L 12+00 S

BL 3+00 W

BL 0+00

CAMP

AREA "B"

AREA "A"

W.L. 652.0

LEGEND

71708 69.4 — Sample site; cup number, results in tracks per square millimeter.

- 101.5 — 121.2 Tracks (3-4 standard deviations above background mean)
- 122.9 — 136.4 Tracks (4-5 standard deviations above background mean)
- 143.4 — 415.8 Tracks (over 5 standard deviations above background mean)

Contact of Heterolithic Breccia.

Diamond drill hole.

PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — M. H. SANGUINETTI

GETTY MINERALS LIMITED

NOR PROJECT

TRACK ETCH SURVEY

DAWSON MINING DISTRICT, YUKON TERRITORY

N.T.S 106 L-3, L-6

100 0 100 200 300 400

SCALE IN METRES
1:5000

BY

CORDILLERAN ENGINEERING
1418-355 BURRARD STREET
VANCOUVER, B.C. V6C 2G8

NOVEMBER 1979

PLATE 9