MAR 19770001: ANDREW LAKE

Received date: Dec 31, 1977

Public release date: Jan 01, 1979

DISCLAIMER

By accessing and using the Alberta Energy website to download or otherwise obtain a scanned mineral assessment report, you ("User") agree to be bound by the following terms and conditions:

- a) Each scanned mineral assessment report that is downloaded or otherwise obtained from Alberta Energy is provided "AS IS", with no warranties or representations of any kind whatsoever from Her Majesty the Queen in Right of Alberta, as represented by the Minister of Energy ("Minister"), expressed or implied, including, but not limited to, no warranties or other representations from the Minister, regarding the content, accuracy, reliability, use or results from the use of or the integrity, completeness, quality or legibility of each such scanned mineral assessment report;
- b) To the fullest extent permitted by applicable laws, the Minister hereby expressly disclaims, and is released from, liability and responsibility for all warranties and conditions, expressed or implied, in relation to each scanned mineral assessment report shown or displayed on the Alberta Energy website including but not limited to warranties as to the satisfactory quality of or the fitness of the scanned mineral assessment report for a particular purpose and warranties as to the non-infringement or other non-violation of the proprietary rights held by any third party in respect of the scanned mineral assessment report:
- c) To the fullest extent permitted by applicable law, the Minister, and the Minister's employees and agents, exclude and disclaim liability to the User for losses and damages of whatsoever nature and howsoever arising including, without limitation, any direct, indirect, special, consequential, punitive or incidental damages, loss of use, loss of data, loss caused by a virus, loss of income or profit, claims of third parties, even if Alberta Energy have been advised of the possibility of such damages or losses, arising out of or in connection with the use of the Alberta Energy website, including the accessing or downloading of the scanned mineral assessment report and the use for any purpose of the scanned mineral assessment report so downloaded or retrieved.
- d) User agrees to indemnify and hold harmless the Minister, and the Minister's employees and agents against and from any and all third party claims, losses, liabilities, demands, actions or proceedings related to the downloading, distribution, transmissions, storage, redistribution, reproduction or exploitation of each scanned mineral assessment report obtained by the User from Alberta Energy.



GEOLOGICAL & EXPLORATION REPORT

ANDREW LAKE PROJECT, NORTHEASTERN ALBERTA

QUARTZ MINERAL EXPLORATION PERMITS 182 & 247

JULY 15, 1977

FOR

TACHYON VENTURE MANAGEMENT LTD.
CALGARY, ALBERTA

Ney brogamin

TABLE OF CONTENTS

		Page
SUMMARY		1
INTRODUCTION		5
OVERBURDEN DRII	LLING - BASAL TILL GEOCHEMICAL SURVEY	5
RADON EMANOMETE	ER SURVEY .	6
SOIL GEOCHEMICA	AL SURVEY RESULTS	7
PROSPECTING RES	SULTS	7
1977 TRENCHING	& SAMPLING PROGRAM	8
CERTIFICATE		9
ASSAY & GEOCHEN	MICAL RESULTS	
ACCOMPANYING MA	APS: (see note below)	
Map 77-1	Grid Location Map ,	
Map 77-2	Cherry Lake Grid - Geology	
Map 77-3	Small Lake Grid - Soil Geochemical Survey	•
Map 77-4	Lease Application and Permit Renewal Area	
Map 76-5	Andrew Lake South Grid - Overburden Drilling & Basal-Till Geochemical Sampling; Radon Emanometer Survey Results	
Map 76-7	Carrot Lake Zone - Resampling of Trenches	

19770001			
Mens 77-1	77-2	77-3	76-5 and
76-7 ane	all mission	from the	e report.
Map 77-4	can be Lou	nel at	the back
of the sepa			
/		J.S	yana
		20-Ay	m. F. 06.
		/	

SUMMARY

This report is to accompany the writer's December 31, 1976 "Geological and Exploration Report, Andrew Lake Project", and incorporates the results of a three-week follow-up exploration program undertaken during the period May 21st to June 15th, 1977.

Upon completion of the 1976 program, three broad areas warranting further exploration for low to moderate grade uranium occurrences were delineated. Subsequently, in 1977, two of these priority areas were examined in considerable detail. The field work accomplished is briefly described below:

(A.) ANDREW LAKE SOUTH GRID (Permit No. 182)

Track Etch anomalies T-1 and T-2 (outlined during the 1976 survey) were further examined by a program of 84 overburden drill holes and geochemical sampling of the 'apparent' basal-till horizon at the bedrock interface. No significant uranium values were obtained. However, because of the light-weight construction of the portable equipment utilized, the drill's limited depth capability, the nature of the sample medium encountered, and the highly variable presence of permafrost, the lack of a technical success in this regard is not unexpected.

A detailed radon emanometer survey (radon 222 soil gas measurements) was also conducted over Track Etch anomalies T-1 and T-2. Three very weakly anomalous trends are evident (two of which are coincidental with radioactivity noted in outcrop) over the northern portion of the survey. However, in view of the thickness and variable composition of the overburden encountered in this area, it is highly unlikely that an emanometer could achieve any significant definition of radioactivity at depth.

Detailed ground scintillometer traverses in the vicinity of the twelve uranium in soil geochemical anomalies delineated in 1976 failed to encounter any significant radioactivity. Several of the anomalies are attributable to areas of twice to three times background radioactivity or patchy areas of "spot highs" in the granites; others are due to drainage pattern and organic scavaging in muskeg areas.

(B.) PERMIT NO. 247 (Cherry Lake Property)

. A limited soil geochemical survey was undertaken south of the Carrot Lake

Zone, at the northern boundary of the Permit. 165 samples were taken at 100' intervals on 400' spaced lines. Two weakly anomalous trends have been delineated, neither of which has been subsequently explained.

The Cherry Lake Grid, which was explored by McIntyre Mines Ltd. in 1968-1969, was further prospected and partially mapped in detail. Here, a weakly radioactive pegmatitic zone (two to twenty times background) in highly metamorphosed sediments is almost continuously exposed for a strike length of 3,000 feet. Width varies from 5' to 105', and averages 50'. The zone strikes WNW and is sub-paralled to a granite gneiss/metasediment contact approximately 100' to the west (similar setting to the Carrot Lake Zone).

In 1968 McIntyre drilled 4 holes intersecting this zone. Drill holes 68-9 and 68-10 are located at the southermost end of the exposed pegmatitic band where anomalous radioactivity is only 5' to 6' wide (no significant assays were obtained in 68-9, and the best assay in 68-10 was $0.12\%U_30_8$ over 1.4 feet). D.D.H. 68-7, located at approximately 1+00N, was placed under Trench #1. The best trench assay was 0.05% U_30_8 over 5'; however, no significant radioactivity was detected in the core. D.D.H. 68-8, located at approximately 2+00S, was collared beneath Trench #2. Again, the best trench assays were 0.05% U_30_8 over 5 feet, and no significant radioactivity was detected in the diamond drill core.

During the course of the 1977 program three new trenches were placed north of D.D.H. 68-7 at approximately 3+00N, 5+00N and 7+00N (for a total of 177 lineal feet of trenching), and McIntyre trenches #1 and #2 were resampled.

The assay results were generally disappointing. The best values obtained were 0.55 lb./20' and 0.34 lb./40' in Trench 77-1; 0.28 lb./10' in Trench 77-2; 0.5 lb./7' in Trench 77-3; 0.6 lb./10' in Trench #1; and 0.6 lb./5' in Trench #2.

Detailed scintillometer traverses within the limits of the Cherry Lake Grid and north and east of Cherry Lake failed to encounter any radioactivity warranting further examination.

In summary, a WNW trending weakly radioactive pegmatitic band, contained within a broad, poorly defined mylonite zone, is intermittently exposed at 4 locations over a strike length of approximately 4 miles (from the south shore of Andrew Lake to the northwest shore of Cherry Lake). The intervening areas are masked by overburden from 10' to +125' thick, with both muskeg cover and

variable patches of permafrost. Exploration to date has failed to indicate continuity between these occurrences (with the exception of the Track Etch survey). However, this may be attributable to the failure of either the geochemical or geophysical techniques utilized to penetrate the drift cover.

From north to south respectively, the showings are briefly described below:

- 1) South shore of Andrew Lake (R1-W4M, Twp. 124, s\square Section 32)
 Two parallel N-S-trending pegmatitic granite gneiss bands exhibit radioactivity of up to 5 times background. Trench 76-1 (c.f. Map 76-5) yielded one assay of 0.2 pounds uranium over a width of 3'.
- 2) Carrot Lake Zone (R1-W4M, Twp. 124, east boundary of Section 20) A WNW-trending pegmatitic zone, moderately well exposed, with a strike length of approximately one mile. Hudson Bay 0il & Gas Ltd. (1968-71) examined the zone with a detailed scintillometer survey and 33 trenches. Assay values were generally in the order of 0.2 to 0.3 pounds uranium over a width of 3 to 4'. The best assays (c.f. Map 76-7) were 0.8 pounds over 15' in Trench 27+25N; 2.8 pounds over 2' in Trench 22+00N; and 3.2 pounds over 4' in Trench 21+00N.
- Small Lake Occurrence (R1-W4M Twp. 124; centre, W½ Section 16)

 A WNW-trending, 20' wide pegmatitic zone is exposed over a strike length of approximately 400'. McIntyre Mines Ltd. (1968-69) examined this occurrence with 10 trenches and three diamond drill holes. The best reported assay is one pound uranium over a width of 5' in D.D.H. 69-1.
- 4) Cherry Lake Occurrence (R1-W4M, Twp. 124, centre of Sec. 9 & 16)

 A WNW-trending pegmatitic band, from 5' to 103' wide, with an exposed strike length of 3,000'. McIntyre Mines tested this zone with 4 diamond drill holes and 5 trenches. In 1977 three new trenches were added and two of the McIntyre trenches resampled. The best assays were 0.55 lb. U308 over 20' and 0.34 lb. over 40'.

In view of the considerable expenditures on this project to date, and the subsequent lack of encouraging uranium values or drilling targets, two recommendations are herein proposed.

1.) A substantial land reduction is suggested. Quartz Mineral Permits 183 and 184 should be allowed to lapse on their respective anniversay dates of July 18 and August 23, 1977. 2,400 acres from the area of Permit 182 should be brought to lease; namely:

North half, Section 20, Township 124, Range 1, W4M

```
Northwest quarter, Section 21, Township 124, Range 1, W4M West half, Section 28, " " " " " " All of Section 29, " " " " " " West half, Section 33, " " " " " "
```

TOTAL: 3.75 Sections (2,400 acres)

Permit 247 should be renewed, and the land area reduced to now consist of the following:

TOTAL: 7.0 Sections (4,480 acres)

GRAND TOTAL: 10.75 Sections

2.) Although the exploration program to date has not yielded encouraging results, the Andrew Lake - Cherry Lake pegmatitic zone still remains as an essentially untested zone for either continuity or improvement of grade beneath overburden mantled areas. The potential for large tonnage, low to moderate grade uranium occurrences is considered to be good in view of the four-mile strike length of the metasedimentary pegmatite horizon. A limited ground geophysical program, commencing May, 1978, is herein proposed as follows:

		Estimated Budget
i)	Electromagnetic survey (vertical loop) 27 line miles @ \$225.00/mile	\$6,075.00
ii)	Magnetometer survey (proton-precession, with base-station recorder; 400' line spacing and 50' station intervals) @ \$150.00/mile	4,050.00
iii)	Cut & picket grid: 7 line miles @ \$200/mile	1,400.00
iv)	Re-establishing and re-chaining the McIntyre and HBOG grids @ \$80.00/mile	1,600.00
v)	Mobilization & demobilization	2,975.00
vi)	Supervision, administration, interpretation of geophysical survey results	3,900.00
	TOTAL:	\$20,000.00

INTRODUCTION

At the request of Mr. J. M. Brady, President, Tachyon Venture Management Limited, the writer undertook supervision of a follow-up exploration program on the Andrew Lake Project during the period May 21 to June 15, 1977. The program was based on recommendations proposed by the writer in a December 31, 1976 report entitled "Geological and Exploration Report, Andrew Lake Project, Northeastern Alberta". Due to budget limitations however, no follow-up of the Charles Lake Area was undertaken, nor were ground traverses conducted on Permits 183 or 184. Also, a limited number of previously unexamined, low priority airborne radiometric anomalies were not ground checked. Instead, the program was directed almost exclusively to the Andrew Lake - Cherry Lake pegmatitic zone and its environs.

OVERBURDEN DRILLING - BASAL TILL GEOCHEMICAL SURVEY

A program of 84 overburden drill holes (for a total of 3,656' of drilling) was undertaken in order to further examine Track Etch anomalies T-1 and T-2. Drilling was done on 400' spaced lines, generally at 100' spaced centres, with 'fences' of 3 or more holes across the anomaly. Approximately 20% of the proposed drilling sites were abandoned after encountering buried boulder trains at depths of less than 15'.

An Atlas Copco "Cobra" percussion drill with E-size rods and a 6" open-ended screw-type sampler was utilized. The equipment was back-packed to the various drill sites.

Depth to the apparent subcrop interface averaged 43.5', with the deepest hole being 123'. Because of the lightweight construction of both the drill and rods, the termination of the holes may be in either permafrost or a heavy boulder layer on the subcrop surface.

Retrieved samples generally consisted of medium to coarse grained sand with some admixed light grey clay. Uranium geochemical analyses were generally in the range of 1 to 2 ppm, and only six values are considered weakly anomalous. The highest value was 43.1 ppm; sample no. G-8.

No geochemical trends are evident and the six weakly anomalous values are probably related to downward percolating groundwater from anomalous muskeg areas.

The drill hole locations and sample values are plotted on accompanying map 76-5.

RADON EMANOMETER SURVEY

A radon emanometer survey (Radon 222) was also undertaken over the northern portion of Track Etch anomalies T-1 and T-2. Soil gas measurements over three, one-minute counting intervals were obtained with a probe from an average depth of 24" with an E.D.A. Electronics Ltd. (Ottawa, Ontario) Model RD200 emanometer.

The radon results were generally low and somewhat erratic; re-runs of several survey lines indicated very poor reproducibility. The results of the first minute count (which also encompasses thoron gas radiation) are plotted as profiles on map 76-5.

Three weakly anomalous NNW trending linear features are evident from lines 72N to 84N in the vicinity of the baseline. Two of these exhibit good correlation with weakly radioactive zones observed in outcrop.

Several inhibiting factors probably preclude delineation of radioactivity in this area with the radon emanometry technique, namely:

- i) The dry, sandy overburden is extremely porous and permeable and fails to 'trap' the radon gas.
- ii) Scattered, remnant patches of ground frost, 2' to 4' thick, located at depths of 2 to 3'. Radon gas levels are suspected to be somewhat lower over these areas. However, the presence of ground frost, which probably persists until mid-July, was not detected if it occurred below the maximum depth of the probe hole (24") except in those areas examined with the overburden drill.
- iii) Permafrost. The frostline is highly variable for the most part as the water table throughout the sand plain is probably near the subcrop interface. The effect of permafrost on gas diffusion is not well documented by case histories.
- iv) Depth of overburden profile. Because of the extremely short halflife of radon gas (approx. 3.8 days) detection of significant levels of radon gas through greater than 60 feet of overburden is unlikely.
- v) Thin clay bands in the overburden profile, noted during the drilling, probably trap the majority of the radon gas at depth.

In view of the aforementioned, radon gas techniques are not generally applicable to this specific area. Furthermore, some doubt about the reliability of the Track Etch results arises; specifically, are the Track Etch cups simply detecting near surface effects such as buried boulder trains?

SOIL GEOCHEMICAL SURVEY RESULTS

A limited soil geochemical survey was undertaken in the dominantly muskeg area south of the Carrot Lake Zone and north of the Small Lake occurrence drilled by McIntyre Mines (E series samples. C.F. Map 77-3).

165 samples were taken at 100' intervals on 400' spaced lines. Background is in the order of 0.8 ppm $\rm U_30_8$. The highest value obtained was 36.4 ppm; sample E-82.

Two parallel weakly anomalous zones were delineated. No additional follow-up has been undertaken and the significance of the anomalies is not known at present. Both are considered to be of low priority interest.

22 soil geochemical samples were obtained from the north end of the Cherry Lake Grid (F series samples. C.F. Map No. 77-2). The extent of this survey was limited by time and crew availability.

The highest value, sample F-22, was 93.0 ppm $\rm U_30_8$, which appears to be directly related to leaching of radioactive pegmatites in outcrop immediately to the south.

PROSPECTING RESULTS

Detailed ground scintillometer traverses, utilizing a McPhar TC-33 scintillometer, were conducted at 100' and 200' spaced intervals over previously obtained soil geochemical anomalies B, C, D, and E (c.f. Map 76-7); and G, H, I, J, L, and south of Track Etch anomaly T-4 (c.f. Map 76-5). No radioactivity warranting further examination was detected.

For the most part, the geochemical anomalies are attributable to narrow, diffuse zones of twice to three times background radioactivity (or patchy "spot highs") and subsequent scavaging by organic matter in the respective drainage patterns.

Detailed prospecting north of Cherry Lake, in the vicinity of McIntyre's reported high-grade float occurrence, drill holes and trenches, failed to encounter any significant radioactivity. This area does not warrant further examination.

Detailed prospecting on the Cherry Lake Grid, northwest of Cherry Lake (c.f. Map 77-2) also did not encounter any new showings or areas requiring additional surface prospecting.

LOCAL GEOLOGY - CHERRY LAKE GRID (c.f. Map 77-2)

The Cherry Lake Grid is centred about a WNW trending, vertical to steeply west dipping $^{\pm}$ 1,800 foot wide band of metasediments. This belt is bounded along the west side of the grid, and east of Twin Lakes, by broad areas of relatively massive Biotite Granite Gneiss.

Metamorphic grade varies from upper greenschist to almandine-amphibolite facies. Sedimentary structures appear to have been obliterated, except perhaps for relict bedding (?) now perserved as colour and mineralogical banding.

The metasedimentary belt is conformably oriented with the adjacent granite gneiss foliation, although it exhibits more extreme deformation than the granites. Intense plastic and cataclastic deformation is expressed as both large and small-scale isoclinal folds, drag folds, crenulations, boudinage and augen structures, and abrupt textural changes with a few feet along strike.

Locally, the metasediments have been sub-divided into three map units:

- UNIT 2 Quartz-Feldspar-Biotite Gneiss, minor quartz-biotite schist and quartz-chlorite schist; pink to grey weathering, well foliated, coarse-grained, 5 to 10% biotite, often feldspar porphyroblastic (up to 25% feldspar porphyroblasts up to 3/4"). Migmatitic banding and augen structures are common. Although this unit is the most variable in composition, it uniformly comprises the western half of the metasedimentary belt. It grades eastward into unit 4.
- UNIT 4 Quartz-Feldspar-Biotite Gneiss; characteristically coarsely feldspar porphyroblastic (up to 35% feldspar porphyroblasts up to
 1 1/2" in diameter); more biotitic than unit 2; coarse-grained,
 pink weathering, massive to weakly foliated. Unit 4 exhibits
 gradational contacts with both units 2 and 5.
- <u>UNIT 5</u> Quartz-Feldspar-Biotite Gneiss; characteristically fine-grained, non-porphyroblastic, pink, massive to very weakly foliated. Also contains less biotite than units 2 & 4. Remnant patches of metaquartzite.
- UNIT 3 Amphibolite; fine-grained, dark green, massive to weakly foliated. The three small amphibolite bodies mapped all terminate against an ENE trending fault, and appear to indicate considerable right-handed displacement. However, this is not well supported by the relationships of adjacent units.

- UNIT 1 Biotite Granite Gneiss; pink, coarse-grained, massive to weakly foliated, often weakly feldspar porphyroblastic. Commonly contains narrow bands of biotite schist. Contains large blocks of unit 2 along the western contact of the metasedimentary belt.
- UNIT P Pegmatite; as a lithological unit, the pegmatite is often indistinguishable from unit 2, as it is not uniformly coarse-grained. Unit P has largely been mapped by its characteristically weak radioactive response. Contacts are gradational. Often contains bands of biotite schist and quartz-chlorite schist.

Three faults transect the grid area; a NNE trending fault along the axis of North and South Twin Lakes; a NNW trending fault along the western margin of the metasedimentary belt; and an ENE trending (steeply south dipping?) fault through South Twin Lake. There does not appear to be any significant radioactivity associated with these structures.

Pyrite is ubiquitous to the metasediments (often up to 5% disseminated, finely crystalline) and numerous gossan zones are evident (cross-hatched areas on Map 77-2). Sulphide concentrations are conformable with the foliation. Unit P appears to contain slightly more pyrite than the adjacent metasediments.

1977 TRENCHING & SAMPLING PROGRAM

10 trenches along the length of the <u>Carrot Lake Zone</u> were briefly reexamined and the best portions chip sampled. Assay results are presented on Map 76-7.

The best value obtained was 0.112% $\rm U_30_8$ over a width of 5' in Trench 26+60N, which is not considered here to be representative of the average values of the pegmatite.

Generally, the Carrot Lake Zone is narrower and more erratic in grade than previously reported by Hudson Bay Oil and Gas (1969). Assay values are generally in the order of 1/2 lb. U_3O_8 over widths of 3' to 5'. There appears to be only a remote possibility of encountering either higher grade or better widths in the near-surface environment in outcrop areas of this zone.

Detailed scintillometer traversing (McPhar TV-1A spectrometer) of the main pegmatite band along the western portion of the <u>Cherry Lake Grid</u> indicated that previous trenching and sampling by McIntyre Mines Ltd. (1968-69) did not adequately cover this zone. Three new trenches were drilled, blasted (but not mucked out) and sampled toward the northern end of the pegmatite, and McIntyre's trenches #1 and #2 were resampled (c.f. Map No. 77-2). The assay results, presented in the summary of this report, were generally disappointing.

Previously contemplated bulk sampling of the trenches was not undertaken, subsequent to the discouraging spectrometer survey results.

As with the Carrot Lake Zone, there appears to be little potential for discovering either higher grade or better widths in the near-surface environment in the outcrop areas of this grid. The pegmatite appears to pinch out just south of McIntyre's drill holes 68-9 & 10, and terminates against a granite gneiss contact to the north. The NNE trending, slightly transecting fault has been intersected by drill holes 68-7 and 68-8 with no significant radioactivity detected. Also, there does not appear to be any significant radioactivity associated with the cross-cutting ENE trending fault.

Respectfully submitted,

Allan, P. Geol.

CERTIFICATE

- I, JAMES RUPERT ALLAN of the City of Calgary, in the Province of Alberta, hereby certify:
 - 1.) that I am a consulting geologist residing at |
 Calgary, Alberta;
 - 2.) that I graduated from the University of Alberta with a B. Sc. in Geology in 1969, and that I have been practicing my profession continuously since that date;
 - 3.) that I am registered as a Professional Geologist with the Association of Professional Engineers, Geologists & Geophysicists of Alberta, and that I am a Fellow of the Geological Association of Canada;
 - 4.) that I have no interest, either directly or indirectly, in the properties or securities of Tachyon Venture Management Ltd.,

 Tormex Resources Ltd., Sackville Oils & Minerals Ltd. or Aquarius Resources Ltd., nor do I expect to receive any interest therein;
 - 5.) that this report is based on a review of published and unpublished literature referred to in the bibliography of this report;
 - 6.) that I personally supervised and participated in the exploration of the "Andrew Lake Project" during the period May 15th to June 15th, 1977.
 - 7.) that I have prepared this report at the request of Mr. J. M. Brady,
 President of Tachyon Venture Management Ltd.

Calgary, Alberta
July 15, 1977

J. R. Allan, P. Geol. F.C. A.C.

GEOLOGIATION

J. R. ALLAN

SOCIATION

J. R. ALLAN

FELLOW

PERSONNEL

	<u>Ma</u>	n Days
J. R. Allan, P. Geol. (Project Supervisor) Calgary, Alberta May 20, May 23 - June 15th, June 27-30, July 12th,	1977	30
G. F. Beier (driller & trencher) Don Mills, Ontario May 16 - June 20, 1977		36
A. Burnett (Geology Student) Calgary, Alberta May 20 - June 15, 1977		27
D. LeClaire (driller & trencher) Wabowden, Manitoba May 16 - June 18, 1977		34
C. Runham (Senior Prospector) Mara, British Columbia May 19 - June 16, 1977		29
	TOTAL:	156 Man Days

To: WOLLEX EXPLORATIONS LTD.
806 Ecen Tower,
715-5th Ave. S.W.,
Calgary, Alta.
ATTINIA T. D. Allon



File No.	13390
Date	June 20, 1977
Samples	Chip

Project # A-76-4

ASSAY ASSAY LORING LABORATORIES LTD.

PAGE # 1

SAMPLE No.	PPM U308
13026×	244•0
13027 *	155.0 Trench 77-1
13028 *	169. 0
13029	144.0
13030 *	144.0
13031 🛎	94.3 Trench 77-2
13032 *	97.9
13033 🐇	59•7
13034 ×	104•0
13035 ×	106.0
13036 ×	196.0 Trench 77-3
13037 <	111. 0
13038 ×	228.0
13039 <	313.0 Trench 77-3
13476	224•0
13477 ×	126.0
13478 *	61.7
13479 *	189•0
13480 5	. 77•9°
13481 *	131 •0
13482 ×	92.6 Trench = 2
13483 <	77.1
13484 ×	164•0
13485 ×	71.9
13486 ×	72₀ 3
13487 ×	208•0
13488 ×	63•6
13489 5	267•0
13490 ^{>}	38.0
13491 ×	302•0
13492 ×	117.0
3`	I hereby Certify that the above results are those assays made by me upon the herein described samples



To: WOLLEX EXPLORATIONS LTD.,
806 Sorcen Tower,
715-5th Ave. S.W.,
Calgary, Alta,
ATTN: J.R. Allan



File No.	13390
Date	June 20, 1977
Samples	Chip

Project # A-76-4

ASSAY ASSAY LORING LABORATORIES LTD.

Page # 2

SAMPLE No.	РРМ U308
13493	44.5 Trench # 2
13494	329.0
13495 *	229,0
13496	73 ₀ 7
13497×	119.0 Trench 77-1
13498 <	124 ₀ 0
13499 ×	85.2
13500	119.0
- 13501 ×	434.0
13502 ×	23.8
13503	25 _o 4
13504\	375.0 Carrot Lake Trenches
13505 \	230.0 Lake Trenches
13506 \	1127.0
13507	64.0
13508 \	140 ₀ 0
13509 \	20.6
13510~	48.3
13511	99,8
13512 \	22.4
13513 \	18.6
13514	77.6
13515 \	147.0 Trench #/
13516 \	18.0
13517 \	278 _• 0
13518 -	329 _o 0
13519	136.0
13520 <	35 _o 8
13521 \	11 _e 8
13522 \	15 _e 8
30	I Hereby Certify that the above results are those assays made by me upon the herein described samples

To: WOLLEX EXPLORATIONS LTD.
806 Screen Tower,
7155th Ave. S.W.,
Calgary, Alta.
ATTN: J.R. Allen



File No. 13383

Date June 17, 1977

Samples Basal Till Geochems

Project # A-76-4



LORING LABORATORIES LTD.

Page # 1

SAMPLE No.	PPM U308
E- 1	0.8
	0.2
2	0•4
2 3 4	0.4
5	0.4
5	0.2
7	0.6
8	0.6
_ 9	. 0.4
10	0.2
11	0.2
12	0.4
13	0.2
14	0.2
15	0.6
16	0.4
17	0.4
18	0.8
19	0.4
20	0.4
21	0.6
22	0.6
23	0.4
24	0.6
25	0.4
26	0.2
27	0.8
28	0.4
29	0.2
30	0.4
31	0.2
32	0.2
	I Hereby Certify that the above results are those assays made by me upon the herein described samples

To: WOLLEX EXPLORATIONS LTD.,
806 Crcen Tower,
715-5th Ave. S.W.
Calgary, Alta.
ATTN: J.R. Allen



File No. 13383

Date June 17, 1977

Samples Basal Till Geochems

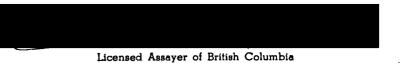
Project # A-76-4



LORING LABORATORIES LTD.

Page # 2

SAMPLE No.	PPM
1	บ308
E-33	0•2
34	0•2
35	0.2
36	0.4
37	0.4
38	0.4
39	0.6
40	0.6
41	0.4
42	0.4
43	1.0
44	0.2
45	0.4
46	0.2
47	0.2
48	0.2
49	0.4
50	0.2
51	0.2
52	0.8
53	0.4
54	0.4
55	0•2
56	0.4
57	0.2
58	6.8
59	0•2
60	0•4
61	1.4
62	0.8
63	0.4
64	1.0
	Il Marchy Martify That The ADOVE BEGINTS ARE THOSE
	I Hereby Certify that the above results are those
	ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES
	·



To: WOLLEX EXPLORATIONS LTD.
806 rcen Tower,
715-5th Ave. S.W.,
Calgary, Alta.
ATTN: J.R. Allen



File No. 13383

Date June 17, 1977

Samples Basal Till Geochems

Project # A-76-4



LORING LABORATORIES LTD.

Page # 3

SAMPLE No.	PPM H200
	U308
E-65	9.0
66	2.2
67	0•4
68	0.4
69	0.4
70	0.6
71	0.6
72	0.4
73	0.4
7 4	0.6
75	0.6
76	0.4
77	0.2
78	0•4
7 9	0.4
80	0.6
81	6.6
82	36.4
83	0.6
84	2.8
85	Ni1
86	Nil
87	0.2
88	0.2
89	Nil
. 90	13.8
91	5.8
92	0.2
93	Ni1
94	Ni1
95	0.2
96	Ni1
70	I hereby Certify that the above results are those
	IN MARKATH MARTITO MAI THE ARONE RESOLTS ARE THOSE
	ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

To: WOLLEX EXPLORATIONS LTD.,
806 Naccen Tower,
715-5th Ave. S.W.,
Calgary, Alta.
ATTN: J.R. Allen



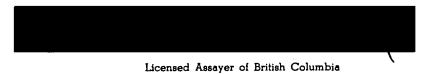
File No.	13383
Date	June 17., 1977
Samples	Basal Till Geochems

ASSAY ASSAY LORING LABORATORIES LTD.

Project # A-76-4

Page # 4

SAMPLE No.	PPM
7.07	U308 Nil
E=97	0.2
98	2.0
99	
100	0.4
101	15.8
102	0.2
103	Ni1
104	Nil
105	. 0.2
106	Nil
107	0.2
108	. 0•4
109	0.6
110	0.2
111	Ni1
112	Nil
113	1.6
114	0•2
115	6.2
116	0•4
117	0.68 ⋅
118	0.8
119	0•2
120	5•8 .
121	1.4
122	0.6
123	0 • 4
124	0.8
125	0.6
126	$6 \cdot 4$
127	Nil
128	0.2
120	I Hereby Certify that the above results are those
	ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES



To: WOLLEX EXPLORATIONS LTD.,
806 Trcen Tower,
715-5th Ave. S.W.,
Calgary, Alta.
ATTN: J.R. Allen



File No.	13383
Date	June 17, 1977
Samples	Basal Till Geochems
•	And Soils ,



Project # A-76-4

LORING LABORATORIES LTD.

Page # 5

SAMPLE	No.	PPM U308	
E-129		Ni1	
130		0.6	
131		Ni1	•
131		3 _• 8	
		32 _o 7	
F- 1		4.2	
2 ,3		1.8	
, s , l		0 _• 4	
4		^ /	
5		0.4	
7	50'	0.8	
, α	Jeha	0.6	
4 5 6 7 8 9	50il end	3.0	
10		43 . 9	
11		34 ₀ 5	
12		0.8	
13		1.0	
14		0,4	
15		1.4	
16		0.8	
17		Ni1	
18		0.8	
19	· ·	2.4	
20		15.4	•
21		7.0	•
22		93.0	•
G- 1		2.8	
2		2.2	
2 3	·	2.2	·
4		1.8	
5		3.0	



To: WOLLEX EXPLORATIONS LTD.,
806 Arcen Tower
715-5th Ave. S.W.,
Calgary, Alta.
ATTN • I.R. Allen



File No.	13383
Date	June 17, 1977
Samples	Basal Till geochem &
	Soils

ASSAY ASSAY LORING LABORATORIES LTD.

Project # A-76-4

Page # 6

SAMPLE No.	РРМ U308
G= 6	2.0
7	7.4
8	43.1
9	5.8
10	1.8
11	1•4 1•4
12	0.8
13	1.0
14	1.0
15	1.2
16	1.4
17	1.2
18	0.8
19	2.8
20	2.6
21	1. 0
22	1.0
23	. 0.8
24	1.8
25	1 •8
26	0.6
27	1 •8
28	0.6
29	0.2
30	0.4
31	0•4
32	0.6
33	. 0.4
34	1 •8
35	0.5
36	0.6
37	1.0
	I Hereby Certify that the above results are those
	ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

To: WOLLEX EXPLORATIONS LTD.
806 Cen Tower,
715-5th Ave. S.W.,
Calgary, Alta.
ATTN: J.R. Allen



File No. 13383

Date June 17, 1977

Samples Basal Till & soil

Geochems

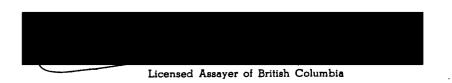
Servificate ASSAY or

Project # A-76-4

LORING LABORATORIES LTD.

Page # 7

SAMPLE No.	PPM U308
G- 38 39 40 41	1.4 0.2 1.8 1.4
	- · · · · · · · · · · · · · · · · · · ·
	· · · · · · · · · · · · · · · · · · ·
	I Hereby Certify that the above results are those assays made by me upon the herein described samples



To: WOLLEX EXPLORATIONS LTD.
806 N en Tower,
715-5th Ave. S.W.,
Calgary, Alta.
ATTN: J.R. Allan



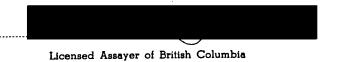
File No.	13413
Date	June 21, 1977
Samples	Soil

Project A-76-4

ASSAY ASSAY LORING LABORATORIES LTD.

Page # 1

SAMPLE No.	PPM U308
G=42	0•4
43	1.8
	2.8
44	1.0
45	0.2
46	0.2
47	
48	Nil
49	Nil
50	. 1.2
51	1.2
52	1.4
53	1.0
54	0.2
55.	1.0
56	1.4
57	1•4
58	1.8
59	1•4
60	1.0
61	0•2
62	1•4
63	1.0
64	1.0
65	1.0
66	0•2
67	0•2
68	0•2
69	0. 2
70	0•4
71	0.6
72	0.8
73	Nf1
	I Hereby Certify that the above results are those
1	ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES



To: WOLLEX EXPLORATIONS LTD.
806 N cen Tower,
715-5th Ave. S.W.,
Calgary, Alta,
ATTN: J.R. Allan



File No.	13413
Date	June 21, 1977
Samples	Soil

Project A-76-4

Sexxificate

ASSAY

LORING LABORATORIES LTD.

Page # 2

SAMPLE No.	PPM U308	
G-74	0•2	
75	8∙8	
76	5•8	
77	14.2	
78	1.0	
79	0∙8	
80	1.4	
81	2.6	
82	1•4	
83	0.6	
84	$1 \bullet 0$	
E-133	4.6	
134	0.6	
135	1.0	
136	3.2	
137	0•6	•
138	2.2	
139	6.0	
140	14.4	
141	0.6	
142	1.0	
143	0.6	
144	0.6	
145	0.4	
146	0.4	
147	0.6	
148	0.4	
149	0.6.	
150	7.8	
151	2.6	
152	1.0	
153	0 4	
133	I Hereby Certify that the above results are those	
	ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES	



To: WOLLEX EXPLORATIONS LTD.,
806 1 cen Tower,
715-5th Ave. S.W.,
Calgary, Alta.
ATTN. I.R. Allan



File No.	13413
Date	June 21, 1977
Samples	Soils

Project A-76-4

Servificate ASSAY

LORING LABORATORIES LTD.

Page # 3

SAMPLE No.	РР М U308	
E-154	8.0	
155	0.8	
	0.8	
156	1.4	
157	2.2	
158	0.8	
159	0.6	
160	0.6	
- 161	. 0.4	
162	2.8	
163	2.2	•
164	2.0	. • •
165	1.2	
		•
i .	·	
		•
	·	·
	·	
	I Hereby Certify that the as assays made by me upon the herein d	BOVE RESULTS ARE THOSE DESCRIBED SAMPLES





Disclaimer

This page was inserted by the Coal and Minerals Development Branch, to provide a reference that the map 77 - 1, 77 - 2, 77 - 3, 76 - 5, 76-7 associated with this report is not contained in the assessment report on file.

