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GEOLOGICAL & EXPLORATION REPORT

ANDREW LAKE PROJECT, NORTHEASTERN ALBERTA

DEC. 31, 1976

FOR

TACHYON VENTURE MANAGEMENT LTD.

CALGARY, ALBERTA

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SUMMARY

In June of 1976 the writer was retained by TACHYON VENTURE MANAGEMENT LTD., SACKVILLE OILS & MINERALS LTD., and CONVENTURES LTD. to conduct a detailed geochemical, geophysical and geological exploration programme on Quartz Mineral Exploration Permits No. 182, 183, 184 and 247, hereinafter referred to as the ANDREW LAKE PROJECT. The four contiguous Permits, totalling 86,400 acres, and the immediately adjacent open Crown land are included in a 'farm-out' agreement (with an "area of influence" clause) with AQUARIUS RESOURCES LTD.; Edmonton, Alberta.

The accompanying report is a summary of the 1976 field programme of airborne radiometrics, ground scintillometry, prospecting, uranium geochemistry, Track Etch radon and ground magnetic surveys. This work was successful in delineating three target areas which warrant further exploration. In decreasing order of priority, these are briefly summarized below:

(1.) ANDREW LAKE SOUTH GRID

The Andrew Lake South Grid covers the "Carrot Lake Zone", discovered by HBOG Ltd. in 1969, and a large glacial fluvial sand plain masking its possible northward extension. The grid area covers a distinctive regional aeromagnetic "break", herein postulated as being a major mylonite zone, and its juncture with three regional scale fault lineaments. The structural setting is considered favorable for moderate tonnage, low to moderate grade uranium mineralization.

Twelve anomalous uranium soil geochem zones or areas and three linear Track Etch radon anomalies warrant additional detailed work prior to definition of diamond drill targets.

(2.) PERMIT 247 (CHERRY LAKE PROPERTY)

This property covers the Small Lake, Twin Lakes and Cherry Lake 'C' uranium occurrences previously discovered by McIntyre Mines Ltd., as well as a large glacial fluvial sand plain masking the possible southward continuation of the Carrot Lake Zone. Additional follow-up

work is recommended for three areas within or adjacent to the Permit:

i.) Three sets of airborne radiometric anomalies from the 1976 survey require ground follow-up: 2 isolated anomalies west of Ilo Lake on strike with Track Etch anomaly T-1 on the Andrew Lake South Grid; a cluster of 10 anomalies in the west central portion of the property, and; 13 scattered anomalies over a 1½ square mile area immediately west of the Permit boundary (in the south portion of Permit 182).

ii.) A reconnaissance radon emanometer survey over the sand plain and muskeg area at the south end of the Carrot Lake Zone is recommended.

iii.) Assay values obtained from trenching by McIntyre Mines Ltd., did not stand up well to diamond drill testing. Additional ground radiometrics and one or more trench bulk samples of the best mineralized zones is herein recommended. Contingent upon favorable results, these three occurrences may warrant a detailed re-evaluation and further diamond drilling.

(3.) *CHARLES LAKE DISTRICT*

Ground follow-up of numerous airborne radiometric anomalies from the 1976 survey failed to encounter any significant uranium mineralization. However, the "Arch Lake" and "Raisin" Granites have been tentatively interpreted as being regionally anomalous in their radioactive expression. Their extension west of the survey area and northward into the N.W.T. should be reviewed. Limited rock geochemistry, a re-evaluation of the anomalies east of Selwyn Lakes and some additional prospecting is recommended.

In order to more clearly define the anomalies and assign priority diamond drill targets, a detailed program of radon emanometry, basal overburden geochem sampling, prospecting of selected geochemically anomalous areas and limited trenching is herein proposed. Estimated budget for a 3 week field program for a geologist and 3 senior assistants is $30,000.00. It is further recommended that such work commence no later than mid-May, 1977.

Upon completion of this phase, and contingent upon a positive evaluation of the subsequent anomalies, a diamond drilling programme in the order of $100,000 to $150,000 would be justified. Also, at this time sufficient data will have been acquired to very substantially reduce the land holdings.

LIST OF MAPS

MAP NO.	TITLE
76-1	Airborne Radiometric Survey - South Andrew Lake
76-2	Airborne Radiometric Survey - North Andrew Lake
76-3	Airborne Radiometric Survey - Charles Lake District
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76-5	Andrew Lake South Grid - Geochem & Track Etch Surveys
76-6	Andrew Lake South Grid - Mag. & VLF-E.M. Surveys
76-7	Andrew Lake South Grid - Geochem & Track Etch Surveys
76-8	Andrew Lake South Grid - Mag. Survey
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76-11	Bonny Fault Zone; Andrew Lake - Split Lakes Sector
76-12	Bonny Fault Zone; Split Lakes - Holmes Lake Sector
76-13	Bonny Fault Zone; Holmes Lake - Murchison Lake Sector
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INTRODUCTION

The Aquarius Resources property, presently under working option to Tachyon Venture Management Ltd., consists of four contiguous Quartz Mineral Exploration Permits, totalling 86,400 acres, located in the extreme northeast corner of Alberta in the Andrew Lake District.

The Andrew Lake District forms a portion of the Churchill structural province of the Canadian Shield which is here comprised of an Archean assemblage of regionally metamorphosed rocks. The western section of the property is underlain by a granite gneiss complex containing numerous northeast trending 'infolded' linear high-grade metasedimentary belts. The eastern portion of the property is underlain by the Waugh Lake Complex (an intercalated sequence of metasedimentary/meta-volcanic rocks), porphyroblastic biotite granite, and massive biotite and leucocratic granites.

Numerous occurrences of weakly to moderately anomalous radioactivity are noted throughout the property as evidenced by previous exploration reports (both private and government). The majority of these anomalies are intimately associated with four specific environments, namely:

1) *Major faults or shear zones;*
2) *In massive biotite granites and associated pegmatitic phases (anatectic granites);*
3) *In pegmatities;*
4) *And, to a lesser extent, in high-grade metasedimentary belts (where radioactivity is often localized in segrations of biotite ± chlorite schist in a host feldspathic quartzite;*

Exploration programmes of previous operators were cursory in nature, as little or no work was directed toward delimiting the extent of anomalies beneath overburden covered areas through the use of stripping, trenching, geochemistry, radon gas techniques or geophysics. Economic appraisals to date have been based largely on outcrop examinations.

In the writer's opinion, there is good potential for the discovery of moderate-grade epigenetic vein-type pitchblende deposits associated

with major fault structures (i.e. Beaverlodge District type occurrences). Also, there exists a reasonable potential for the discovery of low to moderate grade "porphyry-type" uraninite deposits in the massive biotite and leucocratic granites (alaskites and/or migmatities?) (i.e. Rossing, S.W. Africa type occurrences).

During the period June 19 to September 3, 1976 an eight man field party conducted an exploration program of the Andrew Lake Property as recommended in the writer's proposals of March 30, 1976 (Andrew Lake Proposal) and June 30, 1976 (Cherry Lake Property Proposal). Field work consisted of an airborne radiometric survey, ground radiometric follow-up of the airborne anomalies, and detailed geochemical and geophysical investigations of three specific target areas (namely, the Andrew Lake South Grid, the Bonny Fault Zone, and the Hutton Lake Fault Zone).

Expenditures to December 31, 1976 are estimated at $129,500.00.

Field work was terminated approximately 10 days prior to completion of the initial objectives because of budgetary limitations. In anticipation of this, the latter portion of the program was devoted almost exclusively to airborne anomaly investigations at the expense of geological mapping and lake bottom geochem sediment sampling.

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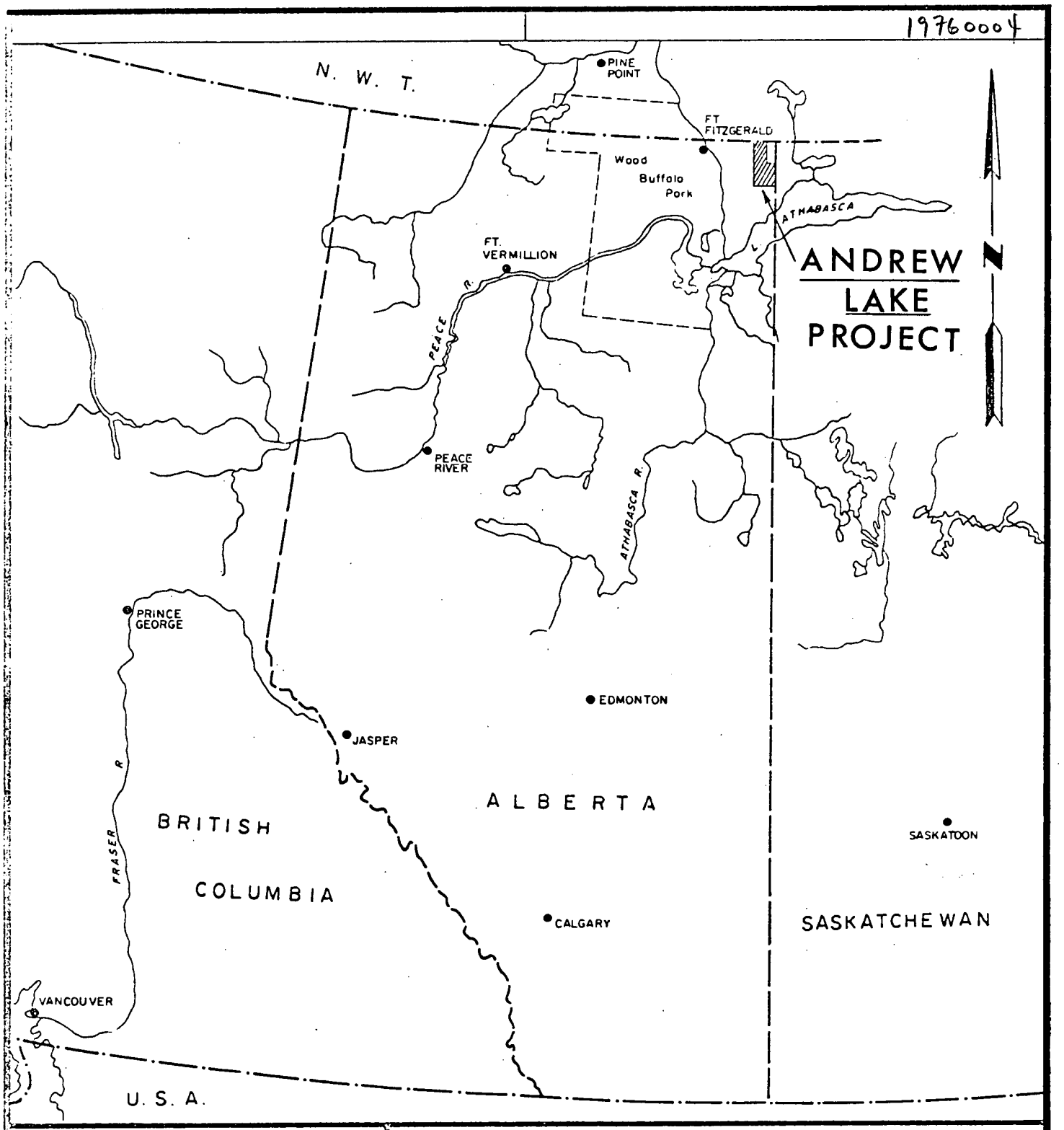
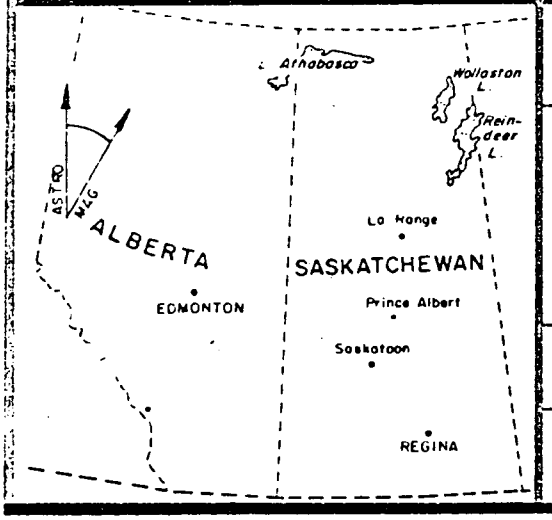




TACHYON VENTURE MANAGEMENT LTD.

LOCATION MAP

ANDREW LAKE PROJECT

150 0 150 300

APPROXIMATE SCALE IN MILES

DEC. 31, 1976

FIGURE 1.

PROPERTY, LOCATION & ACCESS

The Aquarius Resources Ltd. property presently consists of four contiguous Quartz Mineral Exploration Permits located in the extreme northeast corner of Alberta in an area locally known as the Andrew Lake District (An adjacent claim block in Saskatchewan, CBS 5407, has been allowed to lapse). The centre of the property approximates Latitude 59° 51', Longitude 110° 10'; and the National Topographic System subdivision bounding the permit area is 74-M-16 (c.f. Figure 1).

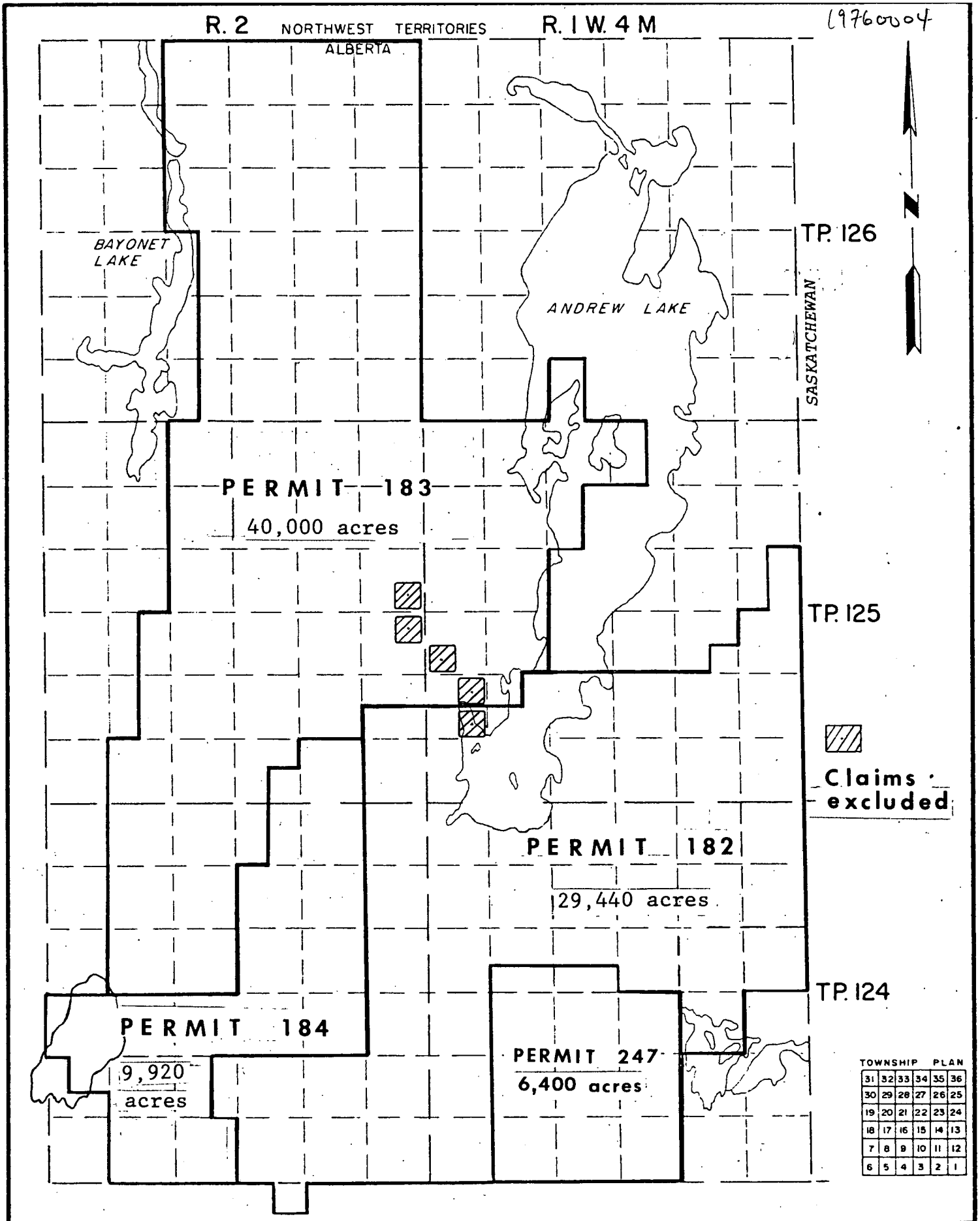
The property is only accessible by float or ski-equipped aircraft, the nearest settlements being Uranium City, Saskatchewan (a distance of 55 miles to the southeast), and Fort Smith, N.W.T. (approximately 60 miles to the west). Both communities are serviced by regularly scheduled commercial airline flights from Edmonton, Alberta. The nearest commercially used water route is Lake Athabasca, 36 miles south of Andrew Lake, en route to the railhead at MacMurray, Alberta (approximately 220 miles south of the property). Limited hydro power is available from both Fort Smith and Uranium City.

The permits, 3 of which were acquired in 1974 and 1 in 1976, are more specifically described as follows (c.f. Figure 2):

Permit No.	*Township, Range West of 4th Meridian, Section*
182	*Twp. 123, Range 2-W4M; NE¼ Section 34.*
July 18, 1974	*Twp. 124, Range 2-W4M; Sections, 1, 2, 3, E½ 9, 10-13 incl., 24, 25, 36.*
	Twp. 124, Range 1-W4M; Sections 6, 7, 14, 18, 19, N½ 20, N½ 21, 22-36 inclusive.
	Twp. 125, Range 2-W4M; Sections 1, S½ 12.
	Twp. 125, Range 1-W4M; Sections 1-6 incl., SW¼ 7, NE/SE/SW¼'s of 8, 9-13 incl., SE¼ 14, E½ of 24.

Sub-Total	*46 Sections*
Approximate acreage	*29,440*

Permit No.	Township, Range West of 4th Meridian, Section	
183	Twp. 124, Range 2-W4M; Sections 20, 21, 28, 29, 32, 33, W½ 34.	
July 18, 1974	Twp. 125, Range 1-W4M; Sections NW¼ 7, NW¼ 8, 17, NE/SE/NW¼'s of 18, 19, 20, W½ 28, 29-33 incl., W½ 34.	
	Twp. 125, Range 2W4M; Sections NW/SW/NE¼'s of 3, 4, 5, E½ 8, 9, 10, 11, N½ 12, NW/SW/SE¼'s of 13, 14, 15, 16, E½ 17, 21, 22, 23, NW/SW/NE¼'s of 24-28 incl., and 33-36 inclusive.	
	Twp. 126, Range 1-W4M; W½ Section 4.	
	TWP. 126, Range 2-W4M; Sections 1, 2, 3, E½ 4, E½ 9, 10-15 incl., E½ 16, 21-28 incl., 33-36 incl.	
	Sub-Total	62½ Sections
	Approximate acreage	40,000
184	Twp. 124, Range 2-W4M; Sections 4, 5, NE¼ 7, 8, W½ 9, 14-18 incl., 22, 23, 26, 27, E½ 34, 35.	
Aug. 23, 1974	Twp. 125, Range 2-W4M; Sections 2, SE¼ 3.	
	Sub Total	15½ Sections
	Approximate acreage	9,920
247 June 30, 1976	Twp. 124, Range 1-W4M; Sections 3, 4, 5, 8, 9, 10, 15, 16, 17, S½ 20, S½ 21	
	Sub-Total	10 Sections
	Approximate acreage	6,400
	TOTAL	135 Sections
	APPROXIMATE ACREAGE	86,400



TACHYON VENTURE MANAGEMENT LTD.		
N.E. ALBERTA PROJ.	QUARTZ MINERAL PERMIT	GENERAL OUTLINE
1" = 2 miles	DEC. 31, 1976	FIGURE 2.

PHYSIOGRAPHY

Pleistocene glaciation has left a locally rugged terrain generally typical of most of the Precambrian Shield. Maximum relief, about a mean elevation of 1,250' ASL, is in the order of 300'.

Glacial striae indicate that the most recent ice transport was from the ENE.

Bedrock is exposed over approximately 30% of the permits, generally expressed as low rounded hills interspersed by small patches of muskeg and numerous large glacial sand plains.

The drainage, which is either disconnected or poorly connected, is west toward Charles Lake.

REGIONAL GEOLOGICAL SETTING

The Andrew Lake District forms a portion of the Chruchill Structural Province of the Canadian Shield and is underlain by an Archean assemblage of regionally metamorphosed rocks. The dominant structural pattern is characterized by a northeast-trending 'grain' imparted by the Hudsonian orogeny.

The western sector of the property is underlain by a granite gneiss complex containing numerous north-east trending infolded linear belts and remnant patches of high-grade metasedimentary rocks. In the eastern sector, southeast of Andrew Lake, the property is underlain by the low metamorphic grade "Waugh Lake" metasedimentary-metavolcanic complex which, in turn, is spatially related to the "Western granodiorite complex" (dominantly porphyroblastic biotite granites, and massive biotite and leucocratic granites).

Mapping in the area is severely hampered by the lack of good marker horizons and by the homogenizing effects of regional metamorphism, migmatization, and poly-phase deformation. That the area is host to ubiquitous faulting may be readily appreciated from the disrupted aeromagnetic pattern and the large number of prominent lineaments recognizable both on aerial photographs and on the ground. As a consequence, there has been little success to date in regionally correlating these rocks with either the Tazin Group meta-sediments in the Beaverlodge District to the east, or the Nonancho Series in the N.W.T. to the north. Nevertheless, it is herein suggested that the metasedimentary belts in the western part of the property are lithologically similar to, if not time equivalents of, the Tazin Group. Uranium-lead age determinations on Andrew Lake District rocks (Baadsgaard and Godfrey) yielded dates in the order of 1,900 to 2,250 m.y. K-Ar determinations place the earliest deposition of the Tazin Group at 2,370 m.y. and the Waugh Lake Complex/Western Granodiorite Complex somewhat younger at 1,900 m.y. The generally accepted range for the Hudsonian orogeny is in the order of 1,740 m.y. to 1,790 m.y. (K-Ar dates after Beck, 1969). Baadsgaard and Koster (1969) have placed the age of Late-Stage mylonitization and faulting in the Beaverlodge District (which events are spatially related to and coeval with most of the epigenetic uranium deposits of the area) in the range 1,400 to 1,500 m.y.

LOCAL GEOLOGY

For greater detail the reader is referred to the publications of Dr. J. D. Godfrey summarized under History of Exploration.

(a) Granite Gneiss. The Western sector of the property is underlain by the eastern flank of a north-northeast trending, 10 to 15 mile wide band of granite gneiss that extends from the north shore of Lake Athabasca through to the N.W.T. Boundary. The western margin of the band is sharply delimited by the Allan Fault System; and the eastern contact, in the centre of the property, by the Waugh Lake/Western Granodiorite Complexes.

Locally, this unit is comprised of biotite granite gneiss; horneblende granite gneiss; minor narrow, lenticular bands of amphibolite; and a minor pegmatitic phase. The unit as a whole is markedly characterized by its pronounced foliation (generally trending N25E dipping vertically to 80°W) and intense plastic and cataclastic deformation (large isoclinal folds, drag folds, crenulations, boudinage structure, etc.).

(b) Metasedimentary Belts. Contained within the granite gneiss terrain are numerous isoclinally infolded (?) linear belts and narrow lenticular remnants of high-grade metasedimentary rocks. Regionally, they are generally oriented conformable with the adjacent granite gneiss foliation; locally, however, they often exhibit somewhat more extreme deformation than the host granites.

Metamorphic grade varies from upper greenschist to almandine-amphibolite facies.

Locally, this unit is comprised of meta-quartzite (minor phyllitic, schistose, migmatitic and pegmatitic phases, and again including minor amphibolite and basic phases) and biotite schist. Relict bedding is preserved as colour and mineralogical banding. Variations in the degrees of schistosity and the content of graphite, pink and red garnet, and feldspathic material constitute the main field technique for further sub-dividing the quartzite phase.

Six principal belts have been mapped within the permit area:

1) *along the axis of Andrew Lake;*
2) *the Spider Lake belt, which appears to be correlative with (1) above;*
3) *west of Split Lakes;*
4) *Swinnerton Lake belt;*
5) *the Sedgewick Lake belt; and*
6) *the Eagle Lake - Potts Lake belt.*

(c) Waugh Lake Complex. (Map unit A) This belt consists of an isoclinally to openly folded (and in places phyllonitized) metasedimentary-metavolcanic sequence predominantly composed of quartzites, greywackes, and biotite and sericite schists about a central core of dominantly basic rocks (greenstone, amphibolite, basalt and gabbro). The metamorphic grade is slightly lower than unit (b) above at middle greenshist facies (minor phases of lower almandine-amphibolite at the southern extremity of the belt).

Bedding features and sedimentary structures are often well preserved.

Tourmaline quartz veins, pegmatitic lenses, ferruginous, garnetiferous and graphitic zones are common throughout the quartzite phase.

(d) Western Granodiorite Complex. (Map unit B) (Terminology after Koster and Baadsgaard, 1969) This unit, mapped east of Andrew Lake on the Saskatchewan side by Koster, is tentatively correlated here with Godfrey's (1963) "Porphyroblastic Biotite Granite" and its four local subdivisions.

The most outstanding feature of this unit is its pronounced 'porphyroblastic' feldspar texture. Variable amounts of biotite, horneblende and chlorite facilitate the subdivisions into Godfrey's biotite microgranite and biotite granites type A, B. and C. As elsewhere, minor amounts of amphibolite, pegmatite and aplite are common.

(e) Massive to Foliated, Biotite & Leucocratic Granites. At the SW end of Andrew Lake and extending south to Cherry Lake (c.f. Map 76-1), a 2 to 3 mile wide band of this unit is interspersed between the Granite Gneiss (a + b) and the Waugh Lake/Western Granodiorite Complex (c + d).

Characteristically these rocks are equigranular, coarse-grained and leucocratic, containing from 95 to 99% felsic minerals. Foliation is non-existent to weakly developed.

Minor phases of muscovite granite, biotite granite and muscovite pegmatite are common.

(f) Arch Lake Granite. Two "younger" granite complexes west of Charles Lake were examined on a reconnaissance basis because of their apparent 'regionally anomalous level' of radioactivity as determined by the Texas Instruments airborne survey of 1969 (c.f. Map 76-3). The southernmost of these, the Arch Lake Granite, is described by Godfrey as being characteristically feldspar porphyroblastic (30 to 50%, ½" to 2" megacrysts) and well foliated. Mylonitic banding is common.

(g) Raisin Granite. This unit is located along the northwest shore of Charles Lake and, along with the Arch Lake Granite, forms a chain of "younger" granite stocks which bound the western margin of the Andrew Lake District. The "Raisin Granite" is commonly mottled pink to red with a "distincitive raisin textured (flaser) appearance" of rounded equidimensional feldspar crystals 1/10" to ¼" in size.

Foliation is weakly developed.

The contact of both the Arch Lake and Raisin Granites with the granite gneiss terrain to the east is generally intercalated and/or gradational.

STRUCTURAL GEOLOGY

Two potentially economic structural features (vis a vis. exploration directed toward epigenetic uranium mineralization) are ubiquitous to the permit area, namely faulting and mylonitization. Although regional-scale folds have not been recognized, two or more periods of small-scale deformation are readily apparent from the complexity of the trend lines on the published 1" = ½ mile maps. Joints and shears are present in every rock type.

Three major fault sets, generally expressed as pronounced lineaments, are prevalent throughout. In decreasing order of their apparent magnitude (and relevance hereto?) as evidenced by the presence, or absence, of subsidiary faults and shears, degree of wall-rock alteration, brecciation and/or mylonitization, these are:

(1) Northwest to north-northwest set; obliquely transecting the strike of the local geology. In this category the "Bonny Fault" (and its associated features) is the principal such system within the property and is, in fact, a deep-seated fault of regional significance. Recurrent movement on the main fault is probable.

"The main fault plane grades into a fan-shaped fault zone on entering the present map-area from the north (Godfrey, 1961), which suggests a dissipation of magnitude to the southeast. Northwest of Andrew Lake the Bonny Fault strikes north 27 degrees west and it dips 80 degrees southwest at the east end of Hutton Lake. In a well-exposed section on the west shore of Andrew Lake the fault becomes a brecciated fault zone filled with quartz and hematite, up to 500 feet width. Marginal to the breccia zone, parallel shears grade outwards into the country rock. Hematization and chloritization of the country rock are common along the Andrew-Hutton Lakes section of the Bonny Fault.

Branches of the Bonny Fault to the southeast of Andrew Lake trend from southeasterly to easterly. Many branches have apparent horizontal displacements in that bands and bodies of several rocks terminate against the faults. Breccia, mylonite, and mylonitic sheeted structures have been noted in sections along the branch faults." (Godfrey, 1963)

This set of faults is strongly marked by its disruption of the NNE aeromagnetic trend.

(2) North-northeast trending set; parallel to the regional foliation trend. These are often contained within or delimit the margins of the meta-sedimentary belts. In all likelihood, these magnetically-low areas are bands of mylonite or zones of cataclasis. The Bayonet Lake recrystallized mylonite zone (often ¼ to ½ mile wide) along the western boundary of the property is the most outstanding in this category. Recurrent movement is also in evidence here.

(3) A curvilinear set of east-west to east-northeast narrow fault or shear planes. There is little or no evidence of recurrent movement or significant alteration of wall rocks.

ECONOMIC GEOLOGY

Here again, the reader is referred to publications of J. D. Godfrey for detailed descriptions of reported radioactive and sulphide occurrences up to 1963, and to assessment files summarized under History of Exploration.

Minor scattered occurrences of disseminated pyrite and traces of pyrrhotite, arsenopyrite, chalcopyrite, smaltite, galena and molybdenite have been reported throughout the high-grade meta-sedimentary rocks of the Waugh Lake Complex, and less frequently in the meta-sedimentary belts of the western Granite Gneiss terrain. Small gossan zones and rusty patches on foliation planes are also common. A dominantly stratiform genesis is herein suggested for such mineralization. Although many of the sulphide occurrences display an intimate relationship with faulting, shearing, or mylonite zones, such localization appears to be largely indicative of extensive remobilization due to thermal and dynamic metamorphism.

Detailed ground follow-up of airborne EM conductors and gossan zones by MacIntyre Mines Ltd. and HBOG Co. Ltd. revealed a common association of stratibound sulphides and graphite. No potentially significant base-metal occurrences have been discovered to date.

Unique to the Waugh Lake Complex is the presence of extensive tourmaline-quartz composite veins. A sample from north of Waugh Lake just east of the Fourth Meridian yielded trace amounts of gold, silver and nickel (Godfrey 1963).

Weakly anomalous radioactivity is widespread throughout the property as evidenced by the discoveries of Godfrey (Map 58-4), airborne survey records of MacIntyre Mines and HBOG, and the prospecting discoveries by Aquarius Resources in 1974. The majority of these anomalies are intimately associated with four specific environments, namely:

1) In massive biotite granites (anatectic granites?) and associated pegmatitic phases. In a broad lithologic sense this may include both the "Cherry Lake" and the "Carrot Lake" radioactive zones. As the apparent strike of both zones clearly transects the geological trend, the radioactivity may, however, be related to a deep-seated southward continuation of the Bonny Fault (the latter masked, in part, by the extensive sand plains at the south end of Andrew Lake);

2) In pegmatites. Radioactivity appears to be preferentially localized in sheared and/or brecciated pegmatites within metasedimentary belts, or within hybrid-type (anatectic?; as in point 1 above) granite gneisses, e.g. north of Andrew Lake Arm;

3) Faults or shear zones. E.g. radioactivity is reported at six locations along the Bonny Fault;

4) The high-grade metasedimentary belts. In a generalized sense, radioactivity is often localized in segregations of biotite (± chlorite) schist in a host feldspathic quartzite, e.g. the Spider Lake zone (a portion of which was trenched and drilled by MacIntyre); the Andrew Lake Arm belt examined by Rapid River Resources; and, sporadic radioactivity at Dumbell Lake in the Sedgewick Lake Belt.

Radioactive occurences in pegmatites (2) and granite gneiss (1) are occasionally characterized by the presence of weak, secondary uranium staining (carnotite?); e.g. the penninsula at the north end of Andrew Lake (Map 76-2) and east of the south end of Andrew Lake (Map 76-1).

HISTORY OF EXPLORATION

The limited exposure of Precambrian Shield in northeastern Alberta has received considerable attention during the past several decades (albeit of a somewhat cursory nature) as a direct consequence of its apparent geological similarity to uranium, gold and base-metal producing areas in Saskatchewan and elsewhere. Reconnaissance mapping traverses in this district were first undertaken by Tyrell of the G.S.C. in 1892 and subsequently by Alcock (1915-17) and Cameron and Hicks (1929-32). In 1936, Alcock mapped the area adjoining the Andrew Lake district to the east at a scale of 1 inch to 4 miles; and in 1938, Wilson mapped the adjacent N.W.T. sector, again, at 1 inch to 4 miles.

Radioactive occurrences in the Andrew Lake district were first discovered in 1953 by Ferguson of the Research Council of Alberta. In 1954, Collins (RCA) spent several weeks prospecting and examining the previous season's discoveries, including a weakly uraniferous pegmatitic band in metasediments at Spider Lake, 12 miles southwest of Andrew Lake.

The first comprehensive study of the economic potential of the area was undertaken by Dr. J. D. Godfrey (RCA) in 1957, which continuing programme ultimately led to publication of the following series:

Bulletin 1		*Aerial Photographic Interpretation of Precambrian Structures, north of Lake Athabasca;*
Prelim. Rept.	*58-3*	*Geology of the Andrew Lake, North District (Map 58-3A, 1" = ¼ mile);*
Prelim. Rept.	*58-4*	*Mineralization in the Andrew Waugh and Johnson Lakes area, northeastern Alberta. (Map 58-4, 1" = 1 mile);*
Prelim. Rept.	*61-2*	*Geology of the Andrew Lake, South District (Map 61-2A, 1" = ½ mile);*
Prelim. Rept.	*62-1*	*Geology of the St. Agnes Lake District (Map 62-1A, 1" = ½ mile);*
Prelim. Rept.	*65-6*	*Geology of the Charles Lake & Ashton Lake Districts (Map 65-6C, 65-6D, 1" = ½ mile).*

During the course of the above mentioned work, Godfrey noted several dozen weakly radioactive occurrences as well as numerous interesting gossan zones and sulphide showings. Public release of the data in August of 1958 led to staking of approximately 150 claims on the basis of the molybdenum potential of the area. No significant discoveries resulted from this work and the claims were allowed to lapse.

In 1959, reconnaissance mapping of the entire Alberta portion of Precambrian Shield north of Lake Athabasca was again undertaken by the Geological Survey of Canada. The results of this survey were published as the Fort Fitzgerald Sheet (Map 12-1960, G. C. Riley), at a scale of 1" = 4 miles. The following year, Koster, of the Saskatchewan Department of Mineral Resources, re-mapped the area east of Andrew Lake (Thainka Lake area, west half) at 1 inch to 1 mile (D.M.R. Rept. No. 61).

Aeromagnetic maps at a scale of 1" = 1 mile have been published for all of the Lake Athabasca region.

A second and more intensive period of exploration closely paralleled the heightened uranium activity in Saskatchewan, starting in 1967 and peaking subsequent to the Gulf Minerals Ltd. Rabbit Lake discovery in 1968. At this point in time, most of the Shield area of both provinces was hastily acquired through "Exploration Permits" or "Claim Blocks".

Three dominantly uranium-oriented exploration programmes, briefly summarized below, covered the entirety of the property that now constitutes the Aquarius Resources Permits (c.f. Figure 3). This data has been filed as assessment work and is available for review at the Research Council of Alberta in Edmonton.

(1) New Senator - Rouyn Ltd. Option/MacIntyre Porcupine Mines (1967-69)

Permits No. 6 and 7 were acquired by Astrabrun Mines Limited and optioned to New Senator Rouyn Ltd. in April 1967. A reconnaissance prospecting programme was centered mainly about the 'Cherry Lake' zone - scattered, weakly radioactive patches in a north-south trending 400' to 500' wide pegmatitic phase within locally sheared, weakly iron stained granite. Trenches in this vicinity returned assays generally in the range 0.04% to 0.20% U_3O_8 with 0.79% U_3O_8 being the best result. A grab sample of granite gneiss float in a swampy area 800' northeast of the north shore of Cherry Lake assayed 1.76% U_3O_8.

The property was subsequently acquired by MacIntyre Porcupine Mines Ltd., and, on their behalf, in July 1968, Trigg Woollett & Associates Ltd. conducted an airborne scintillometer survey over the permits utilizing a helicopter-borne Mount Sopis Scintillometer Model 160-12A (total count instrument; time constant - 0.45 sec.; air speed - 45mph; mean terrain clearance - 100'). 503 line miles were flown on an east-west oriented grid at 1/4 mile spacing. Anomalous areas were re-flown at 1/8 mile spacing. A total radioactivity isorad map was compiled at a scale of 1" to 1/2 mile. 44 anomalies were detailed, 43 of which are located within the limits of the Aquarius Property (c.f. Figure 4, appendix).

Under the direction of Mr. W. H. Thorpe, follow-up work during the 1968-69 field seasons (which was based almost exclusively on the airborne scintillometer results) involved propecting, geological mapping, 20 line miles of picket grids, approximately 700 lineal feet of trenching and 17 diamond drill holes totalling 6,298 feet. Of these, 14 holes were collared on the Cherry Lake Property, 2 at Spider Lake on Permit 182, and 1 at Holmes Lake on Permit 183.

Permit 247 - Cherry Lake

D.D.H. No.	Length	Bearing	Dip	Assay Results of Significance in $\%U_3O_8$
68-1	447'	090°	-47°	117'-119' (2') 0.053%, granite gneiss
68-2	163'	135	-45	traces to 0.005% in granite gneiss
68-3	457'	120	-45	97.5-100 (2.5') 0.02%
68-4	460'	285	-45	84-86 (2') 0.016% in pegmatite
68-5	163'	285	-45	trace
68-6	196'	105	-45	trace
68-7	526'	045	-44	No significant results

D.D.H. No.	Length	Bearing	Dip	Assay Results of Significance in % U_3O_8
68-8	525'	225°	-45°	No significant results
68-9	325'	090	-44	No significant results
68-10	151'	315	-45	108.6-110 (1.4') 0.12% in pegmatite
68-14	425'	090	-45	30-35 (5) 0.03% 35-40 (5) 0.03% 40-44 (4) 0.02% Qtz. - fld.-bio. gneiss 57-58 (1) 0.07% 71-75 (4) 0.04% 158.0-161.5 (3.5') 0.06% in pegmatite 161.5-163.3 (1.8') 0.04% 163.3-168.3 (5.0') 0.03% Qtz-fld-bio gneiss 168.3-173.0 (4.7') 0.06%
69-1	482'	090	-45	199-203 (4') 0.03% 303-310.5 (7.5') 0.05% 454-459 (5') 0.03%
69-2	461'	090	-45	84-88 (4') 0.04% 92-96 (4') 0.03% 163-166 (3') 0.03% 224-226.5 (2.5') 0.04%
69-3	342'	090	-45	216-221 (5') 0.04% 245-246 (1') 0.05%
Permit 182 - Spider Lake Showings				
68-11	303'	158°	-45°	149-154 (5') 0.09% augen gneiss
68-12	466'	133	-45	55-58 (3') 0.04% 58-63 (5') 0.01% qtz.-fld.-bio. gneiss 63-65.5 (2.5') 0.04%
Permit 182 - Holmes Lake Showings				
68-13	406'	135°	-45°	52-57 (5') 0.03% 77-82 (5') 0.03%

In view of the discouraging drilling results (best intersection was 0.12% over 1.4' in. D.D.H. 68-10) the property was allowed to lapse.

(2) Rapid River Resources Ltd. (1968-69)

Six claims (numbers 148 to 153 inclusive), covering a portions of the Andrew Lake Arm metasedimentary belt were prospected in detail under the direction of Dr. K. W. Geiger in 1968.

Approximately 300 scattered radiometric 'spot highs', generally in the order of 5 to 10 times background (i.e. 500 to 1,000 counts/second, SRAT-SPP2 scintillometer) were recorded over an area of 800 acres on the south shore of Andrew Lake Arm. The majority of these anomalies were subsequently resolved into two north-south trending, closely-spaced, relatively discrete zones; both measuring approximately 6,000' x 1,000'. From west to east respectively these are referred to as the "Godfrey" and "Northerly Lineament" Zones.

The radioactivity appears to be intimately associated with numerous small randomly-oriented fractures and with narrow lenses and veins of pegmatitic material.

Two strongly pronounced lineaments (readily recognizable as trough features on aerial photographs), transect the zones - along the east side of the Godfrey Zone and centrally along the axis of the Northerly Lineament Zone. Geiger has postulated that both represent steeply to vertically dipping faults, and that radioactivity is closely related to associated and subsidiary tension fractures, shearing, and injection pegmatite veins. Weak hematization accompanies many of the fractures.

Both zones occur within a complex, rapidly alternating series of metasediments, (locally comprised of quartzite, biotite schist, chlorite schist and amphibolite) and granite gneisses (biotite gneiss and quartz-feldspar-hornblende-biotite gneiss).

During the winter 1969, four holes totalling 1,740' were drilled to test the best surface radioactivity in each of the zones. The only significant intersection was 0.22% U over 3.5' in a brecciated band of biotite schist at a vertical depth of 65' in the Godfrey Zone. A second hole beneath this intersection yielded only weak radioactivity over 1'. In view of these results, the claims were allowed to lapse.

(3) Hudson Bay Oil & Gas Co. Ltd. (1968-1971)

Permits 24, 25 and 26, were prospected in considerable detail (both for their uranium and base-metal potential) over a three year period under the direction of Mr. E. C. Burgan.

In 1968, the first airborne scintillometer survey of the area was conducted by Federal Resources Corp. of Salt Lake City, Utah.

Phase I of the HBOG programme consisted of reconnaissance mapping and preliminary ground scintillometer checks of previously reported radioactive and sulphide occurrences. Ground data obtained at this time indicated poor quality control in the Federal Resources survey largely as a result of limited crystal size, only total count recording, and lack of elevation control. Subsequently, in 1969, the permits were reflown by Canadian Aero Surveys, this time with combined electromagnetic, magnetic and radiometric instrumentation (Canadian Aero Canso Mark III IP/OP EM system, 390 HZ; total intensity Model III Fluxgate magnetometer; and an Exploranium DGRS-1000 scintillometer with three 4" x 6" crystals). A total of 1,534 line miles were flown at 1/8 mile spacing (east-west oriented lines), and at a radar altimeter controlled elevation of 150'.

Ground follow-up of the airborne radiometric survey was extremely limited; anomaly selection was based on total-count expressions of moderate amplitude with linear extent of two or more flight lines. Such designated anomalies were prospected with a McPhar TV-1 scintillometer, reconnaissance mapped, trenched and sampled. Numerous radioactive occurrences were discovered in areas lacking airborne expression and, in a re-evaluation of the technical aspects of the survey, the data were concluded to be substantially invalid.

In 1970, the permit areas were again reflown, this time by Geo-X Surveys Ltd. (Exploranium DGRS-2000 scintillometer with three 4" x 6" crystals; east-west oriented ¼ mile spaced lines; mean terrain clearance of 100' to 150'). Phase II of the HBOG programme consisted of detailed ground scintillometry (McPhar TV-5), trenching and sampling of anomalies selected from Bismuth peaks. Generally, each anomaly location was subjected to a minimum of three 500' spaced traverses plus limited prospecting between lines. This work was successful in locating the "Carrot Lake Zone" (described below).

Ground follow-up of the Canadian Aero Survey airborne conductors entailed line cutting, magnetics, vertical loop EM surveying (McPhar M-660 VHEM, broadside configuration, 200' or 300' separation), and, where feasible, trenching and sampling. Conductors masked by overburden were resurveyed with horizontal-loop EM on 400' spaced lines in conjunction with soil sampling at 100' station intervals. Of the 12 anomalies examined "Graphite was found on all the anomalies that were exposed in outcrop or trenching. Several conductors have gossan zones associated with or near the anomaly trace". No drilling was recommended on the basis of this work.

Phase III of the programme consisted of a detailed surface evaluation of the "Carrot Lake Zone", which is located 1½ miles south of Andrew Lake and 2½ miles north of the "Cherry Lake-MacIntyre" occurrence. A McPhar TV-5 scintillometer survey on a closely spaced grid indicated sporadic radioactivity (generally in the order of 2 to 5 times background and rarely to 20 times background) in a WNW trending zone up to 400' wide and with an exposed strike length of approximately one mile (masked by extensive sand cover at either end). A total of 33 trenches were placed along the length of the zone and of 43 obtained samples, most assayed in the order of 0.01% to 0.03% U_3O_8. The five best samples, at the northern end of the zone, (generally representing a width of approximately 3') assayed from 0.16% to 0.18% U_3O_8.

In HBOG's "Exploration Report-Andrew Lake Project, 1971", E. C. Burgan summarizes the geology of the zones, which was mapped at a scale of 1" to 50 feet, as follows:

"The predominant rock types are pink and grey granites and granite gneisses with lesser amounts of pegmatite, migmatized schists, metasediments and amphibolite. The textures and structures of individual rock types change over a few feet and as a consequence there is much gradation between lithologic units. In a broad sense, pink granites and foliated granites bound the western part of the Carrot Lake zone. These are bordered on the east by a complex of pink and grey migmatites and gneisses, porphyroblastic gneisses and pegmatites with an increasing content of biotite schist to the north and east. The bulk of the schists and metasediments occupy the more eastern part of the zone...In the southern part of the zone, foliation trends about N10°-20°E and dips at an average of 70° to the west. In the northern part of the zone, where schists are more abundant, the strike of the foliation tends to be more variable but generally assumes a more northerly

trend. Dips range, with a few exceptions, from 80°W to vertical with some steep easterly dips recorded. Shearing, flow-folding and jointing are commom minor structures throughout the zone"....

"The mineralization appears to be mainly controlled by structures such as fractures and shear planes" and is generally contained in biotite rich phases of both the gneisses and metasediments in an obliquely transection relationship to local gneissosity. "The best (assay) results are from trenches 27+80N, 22+00N, and 21+00N (in the northern part of the zone west and southwest of Dam Lake) where assays as high as 0.18% U_3O_8 were recorded."

The southernmost end of this zone, which is apparently obscured by glacial overburden, is located on the boundary between Sections 20 & 21, Range 1, Twp. 124.

In 1971, HBOG acquired Permit No. 178 in order to protect both the Carrot Lake and Cherry Lake-MacIntyre occurrences. However, no assessment work was filed and they were forced to relinquish both their bond and the Permit.

(4) Aquarius Resources Ltd. (1974-1976)

Permits No. 182, 183 and 184, which supersede the above mentioned permits of MacIntyre, Rapid River Resources Ltd. and HBOG, were again prospected in some detail during July and August of 1974. A six-man prospecting party under the direction of Mr. Joseph Sullivan, P. Eng. conducted closely-spaced scintillometer traverses in the vicinity of most of the previously reported radioactive occurrences.

Numerous weakly radioactive areas, apparently not evident in airborne records of the previous mentioned programmes, were discovered during the course of this work (i.e. the Dumbell Lake area, underlain by the Sedgewick Lake metasedimentary belt, and along the Hutton Lake fault).

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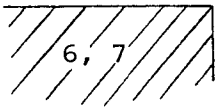
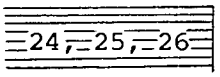
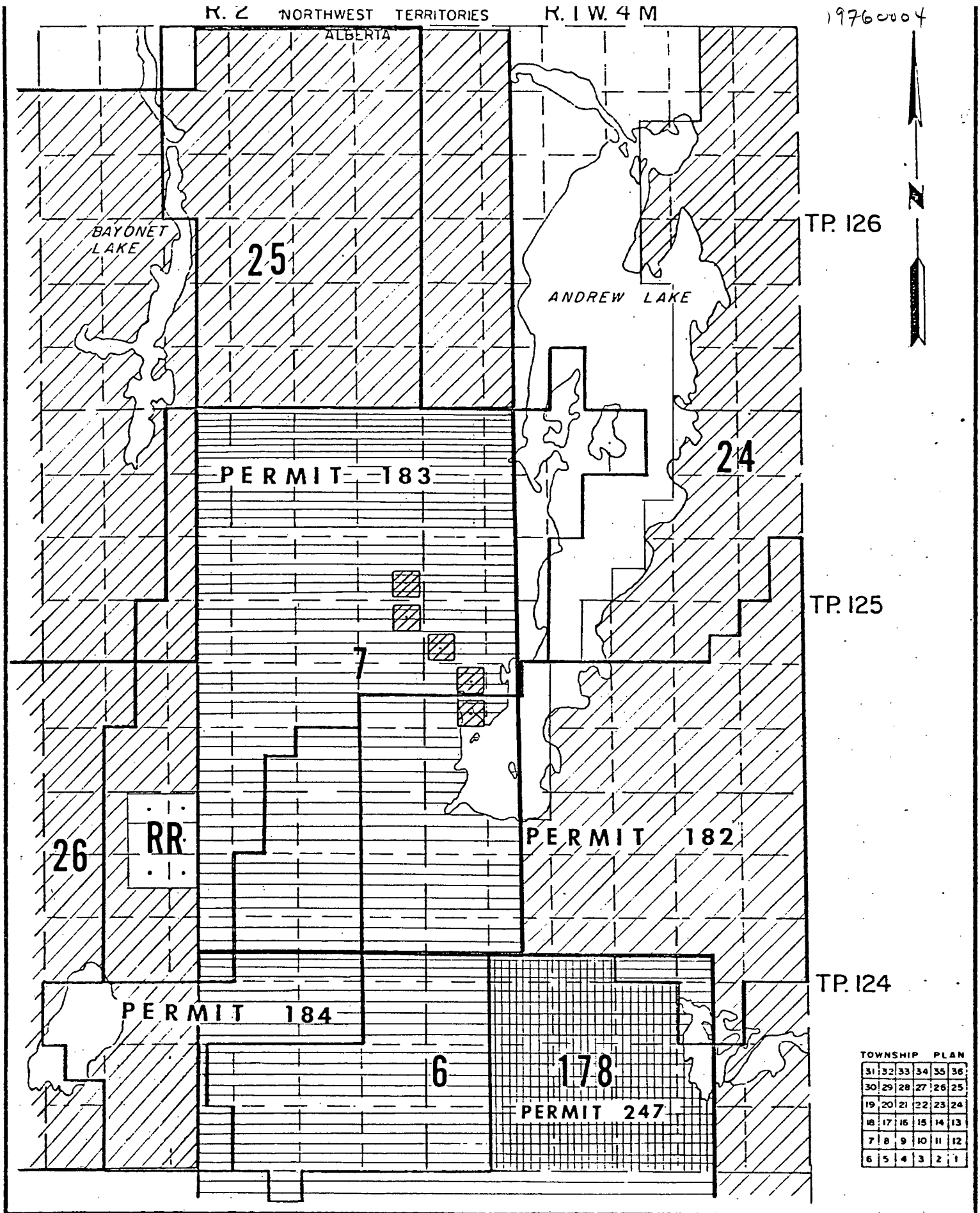
TO

QUARTZ MINERAL EXPLORATION PERMITS

(Figure 3)

Permit No.	Term of Permit	Permit Holder
	1967-69	MacIntyre Porcupine Mines Ltd. (New Senator - Rouyn Ltd. Option)
	1968-71	Hudson Bay Oil & Gas Co. Ltd.
	1971-72	Hudson Bay Oil & Gas Co. Ltd.
RR (Claims)	1968-69	Rapid River Resources Ltd.
182, 183, 184, 247	1974-present	Aquarius Resources Ltd.



TACHYON VENTURE MANAGEMENT LTD.		
N.E. ALBERTA PROJ.	QUARTZ MINERAL PERMIT	PREVIOUS PERMITS
1" = 2 miles	DEC. 31, 1976	FIGURE 3

AIRBORNE RADIOMETRIC SURVEY

2,373 line miles of detailed, low-level, airborne radiometric survey were flown over the Andrew Lake Project area during the period July 19th to 31st, under the supervision of the writer. A breakdown of the extent of airborne coverage is presented below:

Permit 182 Alberta	*508.34 mi.*
Permit 183 Alberta	*596.02 mi.*
Permit 184 Alberta	*124.60 mi.*
Permit 247 Alberta	*112.13 mi.*
Charles Lake Area, Alberta	*334.90 mi.*
Alberta - Peripheral to above	*624.67 mi.*
Claim Block CBS 5407, Saskatchewan	*65.75 mi.*
Saskatchewan - peripheral to CBS 5407	*34.15 mi.*
TOTAL	*2,373.56 miles*

Instrumentation

Instrumentation consisted of a modified SAR-1 two-channel gamma ray spectrometer with a 13" diameter by 6" thick Harchaw Na(Tl)I detector (796 cubic inch crystal), Ortec electronics, and a Brush 222 two-channel recorder. Electronic specifications are further described in the appendix of this report.

The instrument design modification, installation, calibration and test flying was undertaken by Goldak Exploration Technology Ltd. The entire system was interior mounted in a float-equipped Bell 206B helicopter.

Operating Specifications

Aircraft altitude was monitored with a barometric altimeter, but was not recorded. Navigation was from 1" = 1/4 mile strip photo-mosaics with predetermined flight lines indicated. The flight lines were visually altered on the mosaics during the course of the survey and then subsequently recovered utilizing scale divisions provided by a manually operated fiducial marker on the data tapes.

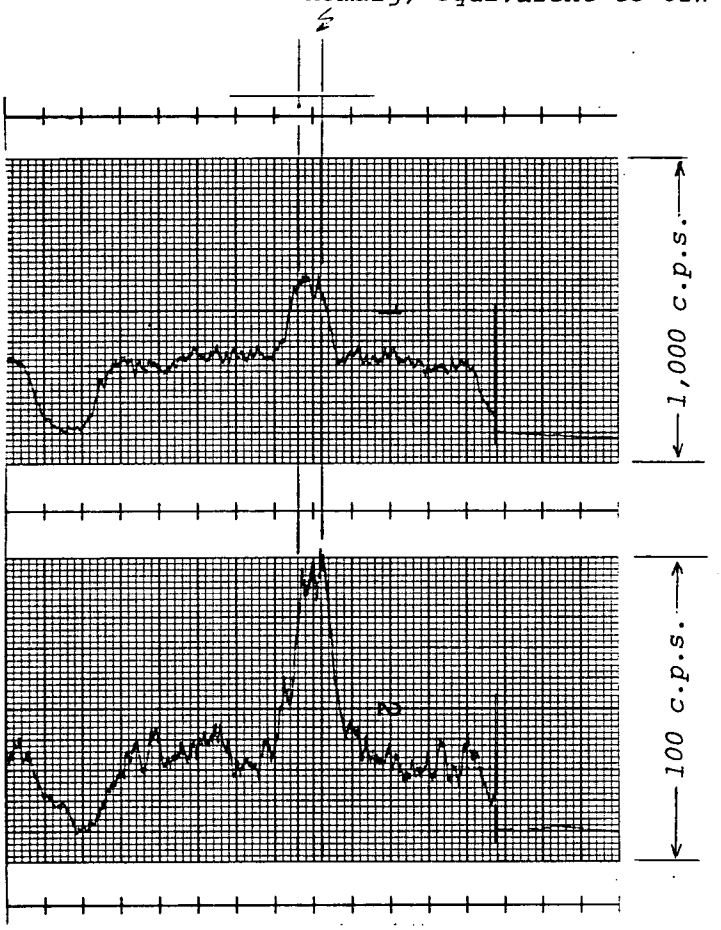
TEST FLIGHT RESULTS

Ground Location - Andrew Lake South Grid

86+00N - 2+00W

Flight Line - West to East (left to right)

Anomaly; equivalent to 62W-"B" and 20W-"B", overpage



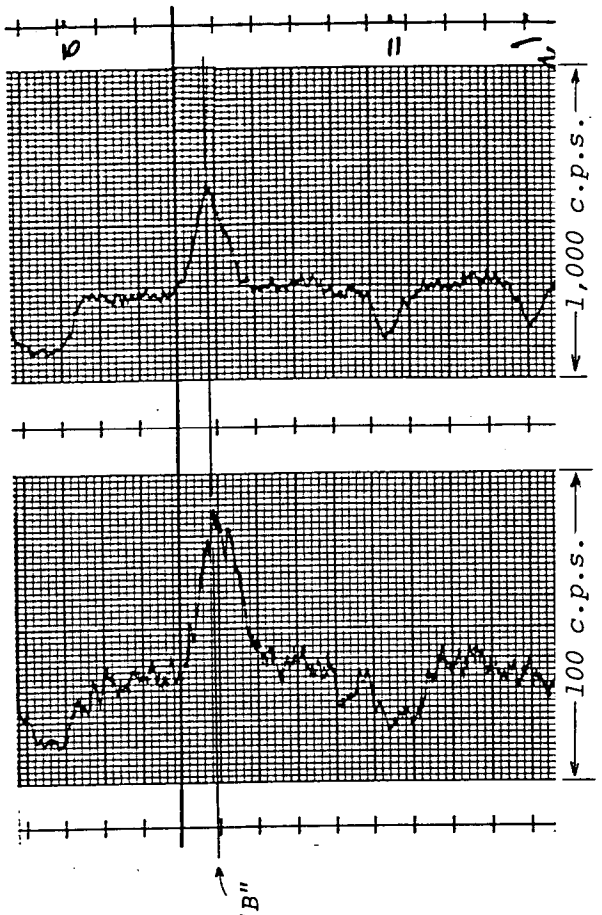
CHANNEL 1	*TOTAL COUNT*
Integration time	*1 second*
Mean terrain clearance	*200'*
Air speed	*75 m.p.h.*
"Window"	*0.25MeV*

CHANNEL 2	*U + Th*
Integration time	*1/3 second*
Mean terrain clearance	*200'*
Air speed	*75 m.p.h.*
"Window"	*1.62MeV - 3.00MeV*

Airborne results: *100 c.p.s. (U + Th) over a background of 40 c.p.s.*

Ground survey: *160 c.p.s. (U + Th) over a background of 30 to 50 c.p.s.*

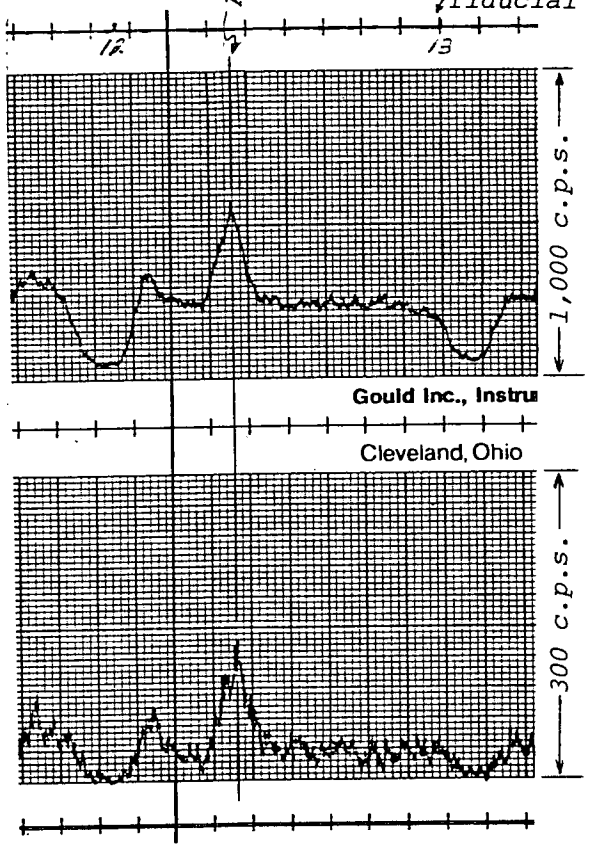
SURVEY FLIGHT RESULTS



FLIGHT LINE 62 WEST

CHANNEL 1	TOTAL COUNT
Integration time	1 second
Mean terrain clearance	200'
Air Speed	75 m.p.h.
"Window"	>0.25MeV

CHANNEL 2	U + Th
Integration time	1/3 second
Mean terrain clearance	200'
Air Speed	75 m.p.h.
"Window"	1.62MeV - 3.00MeV



FLIGHT LINE 20 WEST

CHANNEL 1	TOTAL COUNT
Integration time	1 second
Mean terrain clearance	200'
Air Speed	85 m.p.h.
"Window"	>0.25MeV

CHANNEL 2	U + Th
Integration time	1/3 second
Mean terrain clearance	200'
Air Speed	85 m.p.h.
"Window"	1.55MeV - 4.00MeV

The instrument was checked daily for anomaly resolution and amplitude over a known radioactive showing at the south end of Andrew Lake (Andrew Lake South Grid; 86 + 00N - 2 + 00W; 6 times background zone) as per the example of the previous page.

Initially, the survey area was flown with the following specifications (flight line numbers 1 to 61 inclusive):

Flight Line Spacing	*700'*
Mean Terrain Clearance	*200' (contour flown where possible)*
Average Air Speed	*85 m.p.h.*
Total Count "Window"	*> 0.25 MeV*
U + Th "Window"	*1.55 MeV - 4.00 MeV*
Chart Recording - Total Count	*full scale of 1,000 c.p.s.*
Chart Recording - U + Th	*full scale of 300 c.p.s.*
Integration Time - Total Count	*1 second*
Integration Time - U + Th	*1/3 second*

Subsequent detailed flying over most major structural lineaments, favorable geological settings and most of the obtained anomalies from the above survey were undertaken with the following procedural changes (i.e. lines 62 to 92 inclusive plus the Bonny Fault and Charles Lake flying):

Flight Line Spacing	*flight lines generally interspersed with previous lines, for an interval of 350'*
Average Air Speed	*75 m.p.h.*
U + Th "Window"	*1.62 MeV - 3.00 MeV*
Chart Recording - U + Th	*full scale of 100 c.p.s.*

A comparison of the resolution and amplitudes obtained by the two procedures is set out on the previous page (i.e. flight line 20W versus line 62W).

Interpretation

Interpretation is largely based on an arbitrary level of uranium plus thorium count with coincidental total count response. Initially, an attempt was made to rate the anomalies on a scale of 1 to 5 based on amplitude above background, absolute U + Th count, and anomaly configuration. However, after the first four days of ground follow-up, this procedure was abandoned. Specifically, the lack of an altitude record during the survey and an accurate topographic/outcrop basemap made it impossible to reliably differentitate between "mass effect" anomalies and "weak spot highs"; and between one and two times background anomalies in high relief areas. Also, in order to substantially increase the resolution for the detailed flying, full-scale chart recording of only 100 counts/second for U + Th (versus 300 c.p.s. full-scale for the first pass survey) resulted in most "anomalous" record being off-scale.

In evaluating the post-field follow-up data, it was felt that the airborne system proved to be highly sensitive, provided excellent resolution, and that anomaly designations, rather than being conservative, were somewhat too numerous.

Survey Results

The airborne survey results are presented on uncontrolled base-maps, compiled from the strip photomosaics, at a scale of 1" = 1,320' (Maps 76-1 to 76-4). Regional scale lithologic units and structural features (after Godfrey, Research Council of Alberta) have been superimposed for ease of interpretation and anomaly classification.

Approximately 95% of the obtained airborne radiometric anomalies on Permits 182, 183, 184, the Charles Lake area, and 20% of the anomalies on Permit 247 were examined by prospecting and ground scintillometry.

The majority of the anomalies were found to be directly related to 'patchy' radioactivity in pegmatitic phases of the granite gneiss terrain; and to the contrast caused by weakly radioactive small, granitic outcrops in muskeg areas, at the edges of overburden areas and along lake shores (i.e.

"Background" values in muskeg and overburden areas are generally in the order of 1,500 to 3,000 counts per minute - McPhar TV-1 spectrometer. An isolated granite outcrop in this environment with a background of 3,000 to 6,000 c.p.m. often yielded an anomalous airborne record of 2X background).

Ground follow-up results of each anomaly are expressed in counts per minute directly adjacent to the anomaly designation on maps 76-1 to 76-4 inclusive. Those anomalies not investigated during the 1976 field season are labelled N.E. and are summarized in the appendix.

No significant uranium mineralization was discovered during the course of this work. However, on the basis of the airborne results, geologic setting, and information obtained from previous exploration programs, six areas were deemed to warrant more detailed investigation. In decreasing order of priority, these are briefly described below:

GROUND FOLLOW-UP PROGRAM

(1) SOUTH ANDREW LAKE GRID

A 40 line mile cut-and-picket grid with 400' spaced lines, covering an area of approximately 4 square miles at the south end of Andrew Lake, was placed to further examine the Carrot Lake Zone and the large glaciofluviatile outwash sand plain masking its possible northward extension.

45 line miles of magnetometer survey, 5.7 line miles of VLF EM survey (Maps 76-6, 76-8), a soil geochem survey of approximately 2,000 samples, a Track Etch radon survey of 200 cup emplacements (Maps 76-5, 76-6), and trenching of one outcrop at the south shore of Andrew Lake were conducted over the grid area. Limited ground scintillometry and prospecting of outcrop areas were undertaken in conjunction with the geochem sampling.

11 geochemically anomalous zones and 3 linear Track Etch radon anomalies have been partially delineated and are signifcantly encouraging to warrant further detailed work.

Regional Geology

The Carrot Lake Zone and the B1 and B2 zones of the Cherry Lake Property (on strike to the south) occur at or subjacent to a regional scale break in the aeromagnetic pattern (G.S.C. maps 2903G "Andrew Lake" and 2892G "Colin Lake"). The sharp, north-south trending demarcation from an area of high magnetic relief with disrupted linear pattern west of Andrew Lake, to an area of low relief and homogenous pattern underlying the lake and eastward into Saskatchewan is postulated to represent a major zone of cataclasis or mylonitization. This break is also representative of a lithological contact of regional significance: the area west of Andrew Lake exhibits a NNE trending fabric and is comprised of a granite gneiss terrain with numerous, isoclinally infolded, narrow metasedimentary belts; whereas the area east of the lake is underlain by massive granites and the younger Waugh Lake metasedimentary-metavolcanic complex.

Both the Carrot Lake and the above mentioned Cherry Lake zones lie amongst a set of regional-scale lineaments; namely the Cherry Lake A, B and C faults, from west to east respectively. It is further hypothesized that the strong north-south mylonite zone along the west shore of Andrew Lake may have deflected the southeast trend of the Bonny Fault to a "horsetailed" south-southeast trend, and hence that the 3 Cherry Lake faults are correlative with the Bonny Fault.

In summary, the coincidence of the Cherry Lake fault set and the regional north-south trending "mylonite zone?" in the vicinity of Carrot and Cherry Lakes are envisaged as a favorable structural setting for uranium mineralization. Radioactive occurrences in this locale may have a greater significance than elsewhere in the Permit areas.

Soil Geochem Survey Results

As expected at the outset of the field program, the soil geochem sampling technique was only moderately successful, largely as a result of the medium sampled. The paucity of locally derived glacial till and the widespread coverage of the grid area by glacio-fluviatile sands tended to mask geochemical

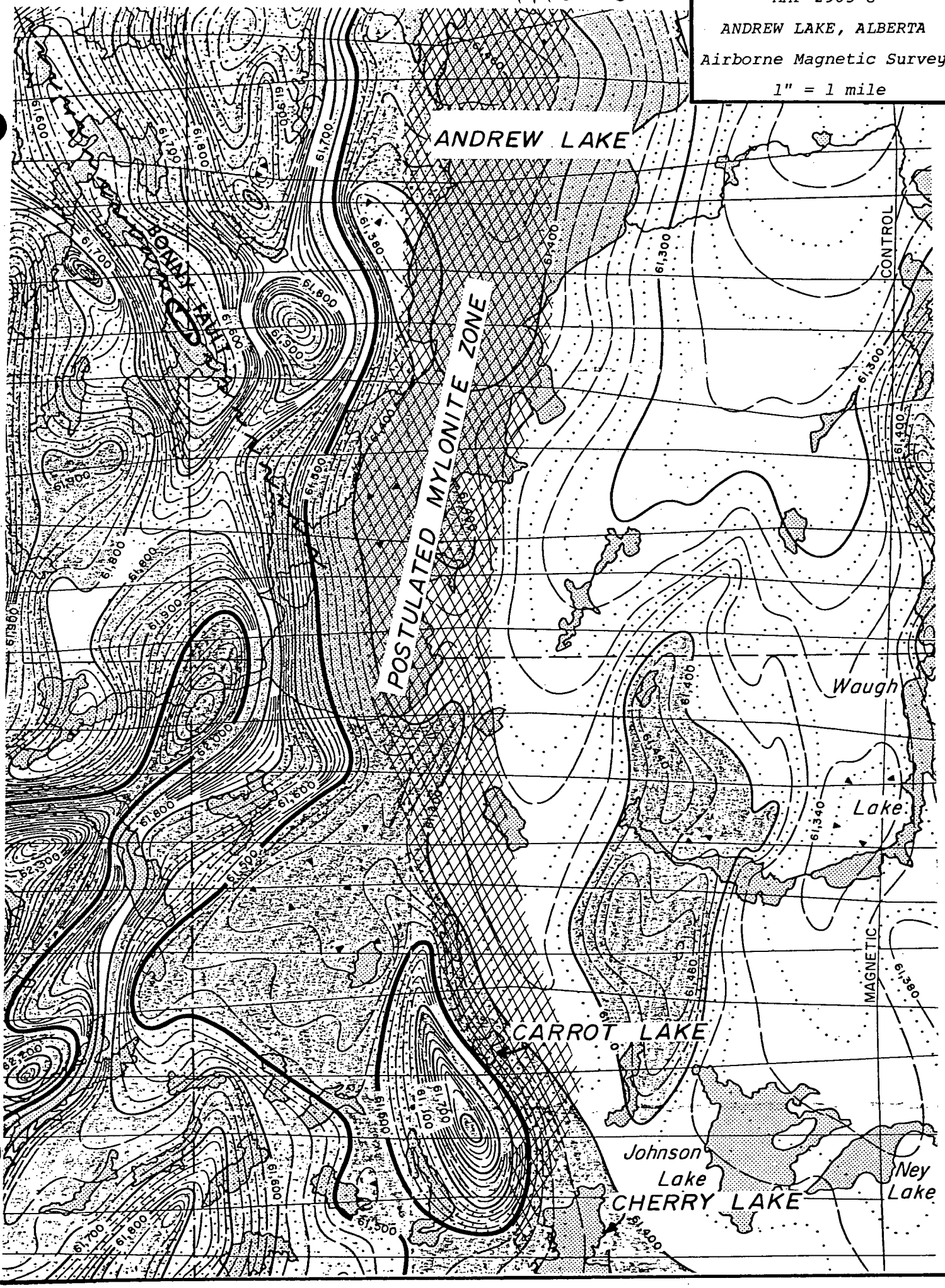
19760006

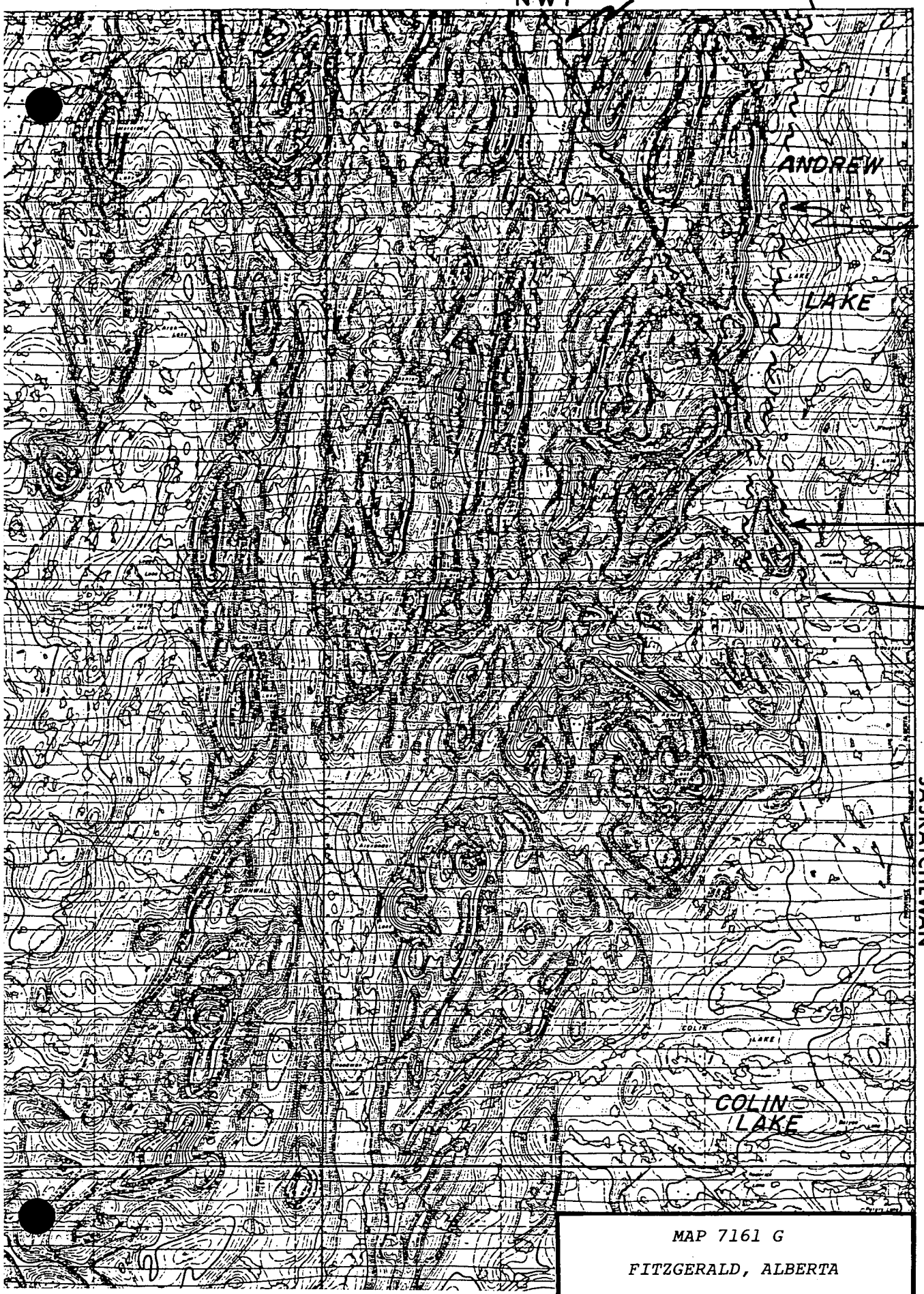
MAP 2903 G

ANDREW LAKE, ALBERTA

Airborne Magnetic Survey

1" = 1 mile





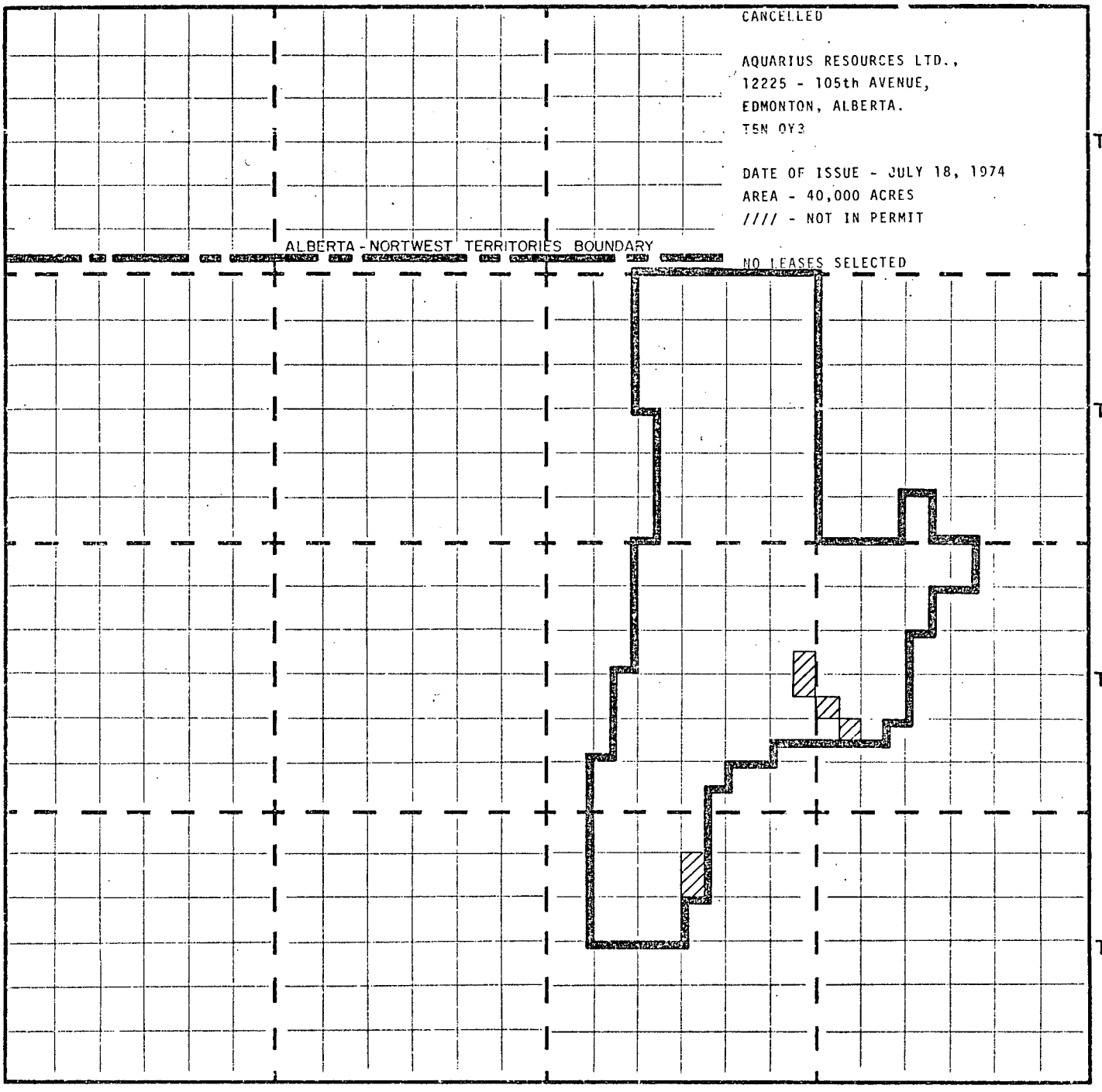
MAP 7161 G

FITZGERALD, ALBERTA

Airborne Magnetic Survey

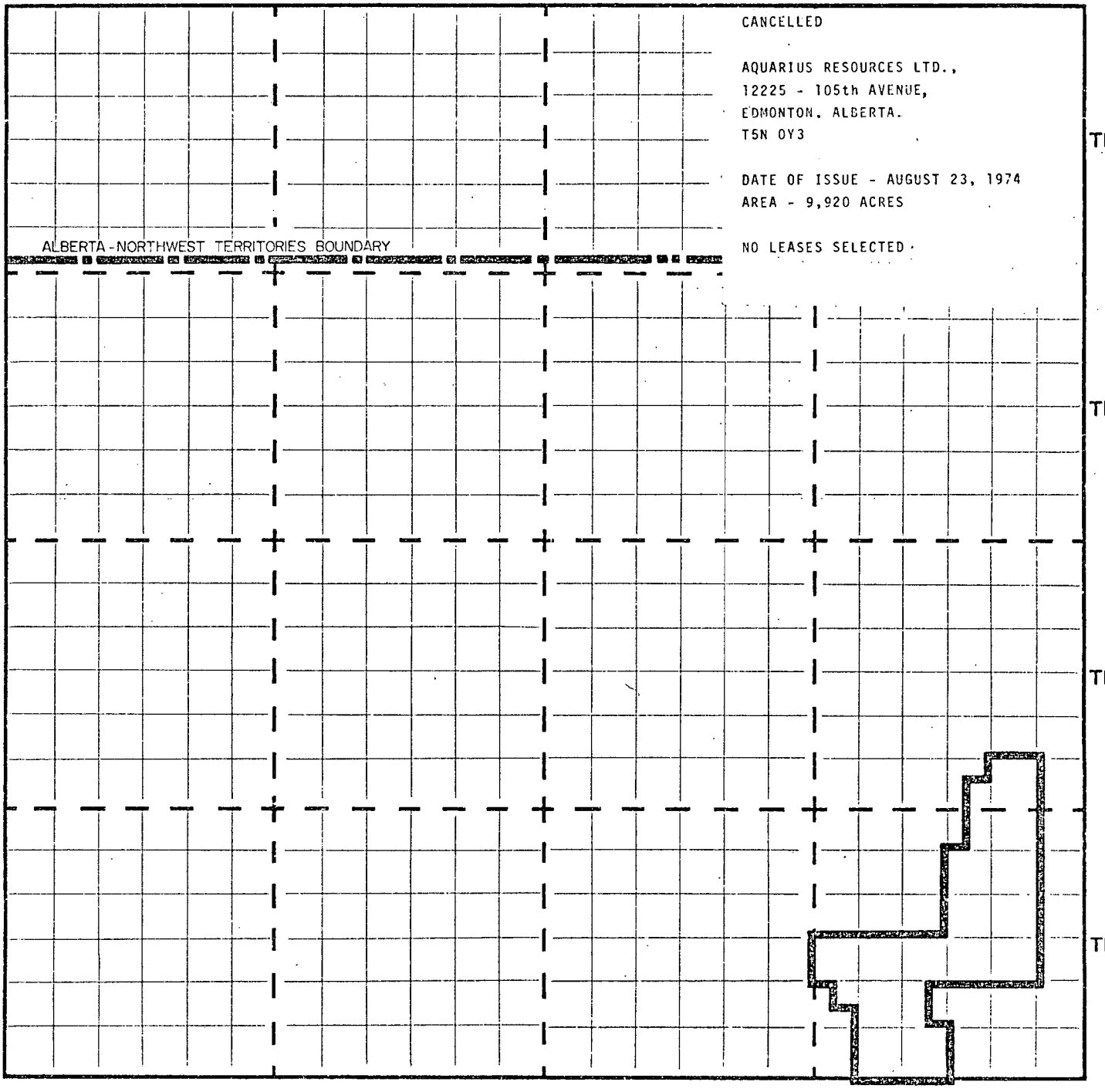
1" = 4 mi., Compilation Sheet

QUARTZ MINERAL EXPLORATION PERMIT NO. 183



for report see permit 182 AKQ

QUARTZ MINERAL EXPLORATION PERMIT NO. 184



for report see permit 182 AKG

dispersion.

The optimal sampling medium for a reconnaissance phase, organic rich material from swamps (as well as lake bottom oozes), ultimately provided much more definitive results.

Background value for the sand plain area is less than 1 ppm uranium and values in excess of 3 ppm are considered weakly anomalous. Background value for organic material is in the order of 2 ppm and values in excess of 20 ppm are weakly anomalous.

During the first phase of the geochem lab. analysis only every third sample was submitted for assay. Upon receipt of these results, samples adjacent to and on strike with anomalous values were then assayed (approx. 450 samples have not been submitted to the lab. As most of them were taken from non-anomalous areas of the sand plain, their analysis at this time is not warranted).

Twelve geochemically anomalous zones or areas, labelled A to L, were detected. These are briefly summarized below:

(A.) This moderate to strongly anomalous zone is representative of the ground radiometric definition of the Carrot Lake Zone, and is coincidental with the trace of 4 airborne radiometric anomalies from the 1976 survey. The three narrow mineralized bands mapped in detail by HBOG Ltd. approximately define the centre of the anomaly.

The NNE trending zone exhibits good continuity over a strike length of 5,400' (sand & muskeg covered at both the northern and southern extremities) and a width of 100' to 400'. Geochem values are generally in the range of 2 to 10 ppm uranium.

(B.) This zone lies parallel to and from 600 to 700' west of (A) and is again coincidental with 2 airborne radiometric anomalies. Good continuity, with values in the range of 2 to 23 ppm, is exhibited over a strike length of 2,500' (open to the south). The width, however, probably averages less than 100'. Most of the anomaly is located on two low, rounded hills with sparse overburden and numerous scattered outcrops.

(C.) This anomaly is coincidental with an airborne radiometric anomaly at the southeast end of Carrot Lake. Four samples at the end of a survey line (no sampling either north or south) yielded values in the range 66 ppm to 151 ppm. Government mapping indicates that the anomaly occurs

at the south end of a NNW trending outcrop ridge comprised of very weakly foliated to massive leucocratic granite (occasionally biotitic and/or feldspar porphyroblastic). This area was not prospected during the 1976 program, nor is there any record of an evaluation of the east side of Carrot Lake by previous operators.

(D.) Again, this anomaly is only represented by a single survey line; three organic-rich samples in a low-lying muskeg area northeast of Carrot Lake yielded values of 100 to 556 ppm uranium. The values are considered too high to be accounted for by organic scavaging in a normal background area. Also, the sample sites are up drainage from the present dispersal pattern of the Carrot Lake Zone. Hence it is assumed that these values are derived from the above described outcrop ridge along the east shore of Carrot Lake. If such is the case, continuity between (c) and (D) would result in a target zone with a strike length in excess of 3,000' (this trend also appears to be on strike with Cherry Lake fault 'C', further enhancing its potential).

Somewhat surprisingly, the outcrop ridge is not expressed in the 1976 airborne radiometric record.

(E.) This is a low priority anomaly located approximately ½ mile northeast of Carrot Lake. The trend of the zone however, is approximately on strike with (C) & (D) above, thereby necessitating further evaluation. The anomaly has been detected over three survey lines with a width of less than 100' and a strike length in excess of 900' (again, open to the south). Values ranged from 2 to 20 ppm U. Sample #3189 (30 ppm) southwest of the interpreted zone is assumed to be enhanced by organic scavaging. Government mapping indicates scattered outcrop with a lithology similar to that described in (C).

A reconnaissance scintillometer traverse in this vicinity did not detect any significant radioactivity.

(F.) This low priority anomaly consists of a single, weakly anomalous (4ppm) sample located approximately 400' east of (E) and is possibly indicative of a parallel band of radioactivity.

(G.) This low priority anomaly is located ½ mile north of Carrot Lake in a scattered outcrop area of granite gneiss. Relatively detailed prospecting (albeit prior to receipt of the geochem data) failed to indicate any significant radioactivity in this area. The zone has fair continuity over a strike length of 1,000'. Width is probably less than 100'. The

geochem values ranged from 2 to 8 ppm U.

The zone accurately reflects the trace of Track Etch anomaly T-3 (later described), and as such warrants additional work.

(H.) Anomaly H is a long northwest trending feature which closely conforms to the attitude of two high outcrop ridges on the east side of the large sand plain. Both ridges are comprised of massive to very weakly foliated, leucocratic, white to grey granite which becomes gradationally more biotitic and dark pink northward. The geochem zone shows good continuity, with values in the order of 2 to 10 ppm U, over a strike length of 3,600'. The width is probably less than 100' throughout.

There are no airborne radiometric anomalies in this vicinity and reconnaissance prospecting did not detect the zone.

The intersection of the geochem anomaly and the north-northeast trending mag. high should be further sampled.

(I.) This is a low priority zone parallel to, and from 300 to 350' east of H. The anomaly is 1,400' long (cut off at both ends by fair density sampling), less than 100' wide, and is expressed as values from 3 to 20 ppm U. Local geology is similar to that of (H).

(J.) Once again this is a low priority anomaly 800' east of and parallel to (I). Sample values are in the order of 3 to 15 ppm U. The width is assumed to be less than 100' and the strike length probably greater than 500' (several anomalous values in the muskeg to the southeast may only represent organic enhancement).

Several additional weakly to moderately anomalous values between (H), (I) and (J) may simply represent downslope dispersal.

(K.) Anomaly (K) represents a series of six north-northwest trending weakly radioactive zones (3 to 6 times local background) in a pink, biotitic granite gneiss. Attention was first drawn to the area by two, twice background airborne radiometric anomalies.

Subsequent trenching (trench 76-1) of one of the zones indicated mineralization in the order of 0.01% U_3O_8. Detailed geochem sampling was undertaken in order to determine the distance of transport into the surrounding sand plain.

A detailed spectrometer survey and additional trenching are recommended.

(L.) This is a low priority, weakly anomalous, northwest trending narrow zone

located at the northeasternmost corner of the survey area. Strike length is in excess of 500' (open at both ends).

Although the anomaly is located in an area of scattered outcrop, there is no airborne expression of radioactivity.

Track Etch Survey Results

The central portion of the large glacio-fluviatile sand plain was surveyed with 200 Track Etch cup emplacements at an average spacing of 400'. Cup burial was an an average depth of 30" and emplacement varied from 29 to 30 days. The processed values have been normalized to 30 days time integration. Cup retrieval was 100% (compared to an average survey loss of 1.5 to 2%).

A statistical analysis of the data by Mr. James C. Fisher of Terradex Corporation is appended.

Terradex's computer contoured data is less than encouraging. However, several serious shortfalls in this strictly mathematical approach to the data presentation are evident and for the purposes of this report the values have been 'profiled' instead of 'contoured'. Utilizing this technique and assuming a threshold value of 80.3 T/sq.mm, quite surprisingly 9 out of 12 of the anomalous values of the entire survey fall on a single linear trend. This 'zone' has been labelled T-1. Furthermore, by lowering the threshold to 66.8 T/sq.mm the T-1 zone is further enhanced and more clearly defined; also, 2 additional zones (T-2 and T-3) are now clearly evident, although somewhat less well delineated. This approach of lowering the threshold is well substantiated in this instance as only three values from the whole survey in excess of 66.8 fall outside of the writer's interpreted anomalies (and two of these are in the proximity of anomaly T-1 on line 92N; well within the sphere of dispersion from an intensely fractured zone or strong mineralization).

Anomaly T-1

Anomaly T-1 is a north trending zone of good to fair continuity with a strike length in excess of 7,200' (covered by Andrew Lake to the N and open to the south; two unexplained airborne radiometric anomalies west of Ilo Lake may represent a continuation of this trend). The width varies considerably, from less than 200' to greater than 800'.

Width and continuity variations may, in part, be related to a greater depth of overburden in the central portion of the sand plain. The strong geochemical expression on line 56N (24 to 63 ppm U) may also be related to the same feature (however, these samples were largely organic material and may be contaminated by drainage dispersion from the A geochem zone).

The most encouraging aspect of anomaly T-1 is its good correlation with the sharp regional magnetic break or mylonitic band previously described under Regional Geology.

Anomaly T-2

Anomaly T-2 is weak and somewhat speculative in its represented continuity. Over a strike length of 3,400' (crosscutting 9 survey lines) 2 moderately anomalous and 3 weakly anomalous values were obtained. Width of the zone is consistantly 100' or less. Again, both the strength & continuity of the zone may be dampened by the depth of overburden.

The apparent correlation of a strong geochem anomaly on line 40N (40 to 77.6 ppm U) is probably spurious as these values are almost certainly surface drainage contamination from the A zone.

The T-2 zone is directly on strike with both the A and K geochem zones and is conformable with a very weakly apparent magnetic low. The A/T-2/K zone is indicative of continuous radioactivity over a strike length in excess of two miles.

Anomaly T-3

As above, anomaly T-3 is both weak and ill defined. Over a strike length of 3,400' (transecting 10 survey lines) 1 definitely anomalous and 3 weakly anomalous values were obtained. Width of the zone is consistantly 100' or less.

The orientation of the correlated highs is moderately substantiated as the zone flanks a north trending, narrow, linear mag. high.

T-3 correlates well with geochem anomaly G.

(2.) PERMIT 247 (CHERRY LAKE PROPERTY)

Ground traverses on this Permit were limited to those areas trenched by McIntyre Mines Ltd. and the extreme northern portion of the property. No new data were acquired and, as such, the status of the ground remains virtually the same as at the beginning of the field season. However, two aspects of the potential of this area warrant comment.

Firstly, low to moderate grade mineralization discovered and trenched by McIntyre did not stand up to diamond drill testing. This has been previously explained by the apparent erratic nature of the mineralization and its confinement to narrow lenticular seams of mafic-rich material in the pegmatitic granite gneisses (as opposed to possible surface secondary enrichment). In the opinion of the writer, neither chip sampling of trenches nor small diameter drill coring will provide adequately reliable representative assays of the character of mineralization encountered in this area. It is subsequently recommended that one or more bulk samples of the best mineralized areas be taken. Contingent upon favorable results, a re-evaluation of the Cherry Lake occurrences - with a view to additional diamond drilling - should be undertaken.

Secondly, the airborne radiometric survey outlined three areas not examined in detail by McIntyre; 6 anomalies west of the Small Lake - Twin Lakes grids, 10 anomalies in the west central portion of the Permit, and 13 anomalies over a 1 square mile area immediately west of the Permit boundary. These definitely warrant coverage by prospecting and ground scintillometry.

(3.) BONNY FAULT ZONE

As previously described, this structure was chosen as a first priority target on the basis of government reported radioactive occurrences along its trace; a weakly mineralized showing at Holmes Lake (drilled by McIntyre Mines); its accompanying intense alteration, brecciation, and mylonitization; and its similarity to host settings of uranium deposits in the Beaverlodge District.

In addition to 5 closely-spaced airborne radiometric survey lines

parallel to the trend of the Bonny Fault Zone, approximately 8.5 miles of the fault were examined in detail on the ground. A baseline was cut parallel to the fault trough and 400' crosslines either cut, or blazed and flagged. The southeasternmost mile of the fault was covered with a reconnaissance magnetic survey in order to further delineate the extent of its width.

Detailed prospecting and scintillometry, a soil geochem survey of 223 samples and 30 lake bottom sediment samples in Bonny Bay (Andrew Lake) failed to encounter any significant uranium mineralization (Maps 76-11 to 76-14).

In view of the discouraging results, no further exploration of this structure is warranted at the present time.

(4) HUTTON LAKE FAULT ZONE

The airborne radiometric survey indicated previously undetected good continuity to a 1½ mile long, twice-background anomaly along the western margin of the Hutton Lake Fault (a subsidiary structure to the Bonny Fault). A 2 mile baseline with 400' spaced blazed-and-flagged crosslines was placed to cover both the airborne anomalies and the fault lineament. Detailed prospecting and scintillometry, a reconnaissance magnetic survey and a soil geochem survey of 114 samples failed to encounter any significant mineralization.

The airborne anomaly is attributed to a north trending highly discontinuous, 50 to 150' wide band of pegmatitic granite gneiss located 200' to 800' west of the fault trace. Radioactivity throughout the zone varied from two to eight times local background. Two grab samples from radioactive 'spot highs' assayed 0.003% of U_3O_8 (samples #13014 and 13015).

No further exploration of this structure is warranted at the present time.

(5) WAUGH LAKE AREA

Previously reported gold values associated with tourmaline and quartz-tourmaline veins in the Waugh Lake metasedimentary-metavolcanic complex justified a reconnaissance prospecting coverage of this environment.

No economic mineralization or significant sulphide occurrences were encountered and, in the opinion of Mr. E. P. McDonough, no additional exploration for either gold or basemetals is warranted.

The airborne radiometric survey indicated a uniformly low background over the entirety of the Waugh Lake Complex and the potential for uranium discoveries in this environment appears remote.

(6) CHARLES LAKE AREA

The 1969 Geo Photo Ltd./Texas Instruments airborne radiometric survey of the Andrew Lake District indicated numerous anomalies associated with both the Charles Lake "mylonite zones" and the "Arch Lake" and "Rasin Granites". Detailed airborne coverage of this area during the 1976 field season corroborated previous results and further delineated their extent within the confines of the survey area.

Prospecting and ground follow-up scintillometry indicated that the majority of the anomalies were associated with topographic highs and/or outcrops of massive porphyroblastic granite with radioactivity of two to four times the regional background.

A series of anomalies to 35,000 c.p.m. (McPhar TV-1) in narrow bands of biotite schist 3/4 mile east of Selwyn Lake (NE sector of the Charles Lake area) require detailed evaluation. These anomalies are further described in the appendix.

In view of the pronounced airborne radioactive expression of those portions of the "Arch Lake" and "Rasin" granites examined, additional limited rock geochemistry and prospecting is recommended. Such work should be directed toward both favorable structures transecting the granites and contacts with metasedimentary and gneissic units.

RECOMMENDED PROGRAM

Andrew Lake South Grid

In view of the highly encouraging geochem and Track Etch results, additional exploration is definitely warranted. Specifically, the evidence of good continuity of radioactivity in a favorable structural environment over a strike length of three miles from the south shore of Andrew Lake to the south end of the Carrot Lake Zone (possibly 4¼ miles if continuity is indicated between the Carrot Lake Zone and the Cherry Lake "B" occurrences) is thought to be most significant. Also, the possibility of ore grade tenor is evidenced by the trench results at the north end of the Carrot Lake Zone and at Small Lake.

Prior to diamond drill testing however, further delineation of the anomalies in both a quantitative and spatial sense is required. With the orientation data provided by the Track Etch survey, detailed radon emanometry over the Track Etch anomalies (and geochem anomalies A, G and K) is suggested. Also, basal overburden geochem sampling with a Pionjar drill is recommended to further test the above obtained radon anomalies.

Several of the geochem anomalies along the east margin of the grid and west of the Carrot Lake Zone occur within areas of scattered outcrop. These may be evaluated simply by prospecting and ground scintillometry.

Permit 247

Evaluation of the Permit, as outlined in the Summary of this report, is recommended.

Charles Lake Area

A reconnaissance evaluation of the Charles Lake area and the balance of the unexamined airborne radiometric anomalies (c.f. appendix) is recommended. In some instances ground prospecting and scintillometry may prove to be sufficient to evaluate the present results. However, it is suggested that a limited (1 day helicopter time) lake bottom sediment geochem sampling program be undertaken at the beginning of the project in order that the assay results may be evaluated prior to demobilization.

It is estimated that the above work will require approximately 22 field days for a four man party. A proposed budget of $30,000 is appended overpage.

Field work should commence in early May, 1977 to allow for evaluation of the results and the subsequent reduction of land holdings prior to the earliest Permit renewal date.

PROPOSED BUDGET

ANDREW LAKE PROJECT

(22 days field time, 2 days travel time)

Commencement: May 15, 1977

SALARIES:	Senior geologist/supervisor @ $200/day x 24 days		$ 4,800.00
	2 senior prospectors @ $250/day x 22 + 8 days travel		7,500.00
	1 junior prospectors @ $ 80/day x 24		1,920.00
	1 junior assistant @ $50/day x 24		1,200.00
EQUIPMENT RENTAL:	1 Differential Spectrometer	$ 300.00	
	3 Scintillometers @ $150 each	450.00	
	1 Cobra rock drill + steel	300.00	
	1 Radiotelephone	150.00	
	1 Crone Radem VLF E.M.	100.00	
	1 Radon Emanometer + degassing system + ancillary equipment	500.00	
	1 Pionjar Overburden Drill + steel	750.00	
	1 Lake Sediment Sampler	100.00	
	Camp equipment rental @ $8/man/day	700.00	
		3,350.00	3,350.00
FOOD:	$10/man/day x 5 x 24		1,200.00
DISPOSABLE SUPPLIES:	powder & fuse, lumber, flagging, sample bags, sample bottles, batteries, etc.		500.00
ASSAYS:	400 geochem assays @ 3.25 each	1,300.00	
	50 rock assays @ $15.00 each	750.00	
		2,050.00	2,050.00
FREIGHT:	geochem & bulk sample shipment		350.00
MOBILIZATION & DEMOB:	+ travel expenses (contingent upon origin of Pionjar Overburden drill crew)		4,000.00
CAMP MOVE:	Andrew Lake to Cherry Lake + 1 fuel flight		700.00
HELICOPTER:	15 hours @ $155/hr. + fuel cost		2,700.00
OFFICE EXPENSES:	stationery, drafting, telephone and radio calls		600.00
	SUB-TOTAL		30,870.00
PREPARATION OF FINAL REPORT:	6 days x $200/day + drafting & reproduction costs		1,500.00
ADMINISTRATION:	@ 5% of third party expenses, est.		730.00
	SUB-TOTAL		33,100.00
CONTINGENCY ALLOWANCE:	Time lost due to weather, etc.		3,400.00
	TOTAL		$ 36,500.00

[redacted]

J. R. Allan, April 19, 1977

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* [redacted] *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;*

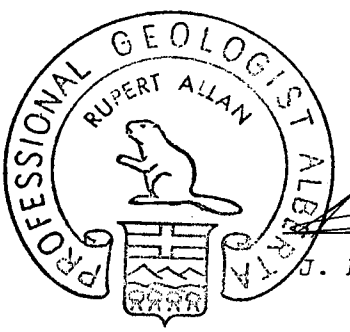
3.) *that I am registered as a Professional Geologist with the Association of Professional Engineers, Geologists & Geophysicists of Alberta, and that I am a Fellow of the Geological Association of Canada;*

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 periods June 19-22, July 5 - Aug. 2, and Aug. 11 - Sept. 3, 1976;*

7.) *that I have prepared this report at the request of Mr. J. M. Brady, President of Tachyon Venture Management Ltd.*



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

Calgary, Alberta
December 31, 1976

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Allan, J. R. "1976 Exploration Proposal on the Aquarius Mines Ltd. Andrew Lake Property", March 30, 1976

_____ "1976 Exploration Proposal on the Tachyon Venture Management Cherry Lake Property", June 30, 1976

Beck, L. S. "Genesis of Uranium in the Athasbasca Region and Its Significance in Exploration" CIMM Annual Meeting, April 1969

*Burgan, E. C. "Exploration Report - Andrew Lake Project 1971" Hudson Bay Oil & Gas Co. Ltd.

*Geiger, K. W. "Progress Report on Claims 148-153, Andrew Lake District" on behalf of Rapid River Resources Ltd., 1971

G.S.C. Aeromagnetic map 2903G - Andrew Lake, 1" = 1 mi.,1964

_____ Aeromagnetic map 2892G - Colin Lake, 1" = 1 mi.,1964

_____ Aeromagnetic map 2904G - Charles Lake, 1" = 1 mi.,1964

Godfrey, J. D. Bulletin 1 "Aerial Photographic Interpretation of Precambrian Structures, north of Lake Athabasca"

_____ Prelim. Rept. 58-3 "Geology of the Andrew Lake, North District" (Map 58-3A, 1" = ½ mile)

_____ Prelim. Rept. 58-4 "Mineralization in the Andrew Waugh and Johnson Lakes area, northeastern Alberta" (map 58-4, 1" = 1 mile)

_____ Prelim. Rept. 61-2 "Geology of the Andrew Lake, South District" (Map 61-2A, 1" = ½ mile)

_____ Prelim. Rept. 62-1 "Geology of the St. Agnes Lake District" (Map 62-1A, 1" = ½ mile)

_____ Prelim. Rept. 65-6 "Geology of the Charles Lake & Ashton Lake Districts" (Map 65-6C, 65-6D, 1" = ¼ mile)

Koster, F. "The Geology of the Thainka Lake Area (W ½) Saskatchewan" 1961, Saskatchewan Dept. of Min. Resources Report No. 61

Koster, F. and Baadsgard, H. "On the Geology and Geochronology of the Tazin Lake Region, Northwestern Saskatchewan" Saskatchewan Precambrian Conference, Regina; October 31, 1969

Riley, G. C. Map 12-1960 "Geology - Fort Fitzgerald, Alberta 1960" 1" = 4 mi., Geological Survey of Canada

**Thorpe, W. H.* "Summary Report, Permits No. 6 and 7, Andrew Lake District" MacIntyre Mines Ltd., Feb., 1969

Watanabe, R. Y. "Geology of the Waugh Lake Metasedimentary Complex, Northeastern Alberta"; Sept., 1961. Unpublished M. Sc. thesis, University of Alberta

_____ "Petrology of Cataclastic Rocks of Northeastern Alberta"; Nov., 1965. Unpublished Ph.D. thesis, University of Alberta

* Reports filed for assessment credit - Research Council of Alberta, Edmonton.

A P P E N D I X

FIELD STAFF		Travel & Field Time Man Days
J. R. Allan:	Geologist/Supervisor [redacted] Alta. June 19-22, July 2-31, Aug. 1, 2, 9-31, Sept. 1-3	62
E.P. McDonough:	Geologist [redacted] Toronto, Ont. June 21 - Sept. 3	45
F. Hussey:	Prospector/Instrument Operator [redacted] Agincourt, Ont. June 12 - Sept. 4	84
G. Beier:	Prospector/Instrument Operator [redacted] Don Mills, Ont. June 12 - Sept. 4	84
J. Gledhill:	Junior Assistant [redacted] Don Mills, Ont. June 19 - July 6	18
P. Gledhill:	Junior Assistant [redacted] Don Mills, Ont. July 17 - Aug. 24	39
A. Atlin:	Junior Assistant [redacted] Thorndale, Ont. June 19 - Aug. 11	53
M. Fisher:	Junior Assistant [redacted] Toronto, Ont. July 17 - Aug. 10	25
B. McDonough:	Junior Assistant [redacted] Toronto, Ont. July 22 - Aug. 24	34
	TOTAL	444 man days

1976 ANDREW LAKE PROJECT

EXPENDITURES TO DEC. 31, 1976

(Unaudited)

PREFIELD & OFFICE EXPENSES (Including final reports)

1.)	Purchase of confidential airborne gamma-ray spectrometer survey results over the project area. Survey flown by Texas Instruments Ltd. on behalf of Geophoto Services Ltd., Calgary, in 1969.		$2,470.95
2.)	Consulting, project planning, expediting and equipment selection:		
	i.) [redacted] consulting geophysicist; airborne equipment selection & travel expenses, Toronto - Calgary & return, May, 1976.	$721.00	
	ii.) [redacted] consulting geologist; qualifying geological report; Sept., 1976	3,430.00	
	iii) [redacted] consulting geologist; project planning, expediting and one supervisory trip Calgary - Andrew Lake and return; including fees, airfare, travel expenses & miscellaneous:		
	Mar.-Apr.	964.78	
	May	1,000.00	
	June	3,303.90	
	Sept.	200.00	
	Oct.-Dec.	2,800.00	
		$8,268.68	
	iv) [redacted] consulting geologist; consulting and travel expenses, Toronto to Calgary & return	494.00	
	Sub-total	12,913.68	12,913.68
3.)	Telephone, radio-telephone & postage:		
	Wollex invoice	632.79	
	Gledhill invoice	654.60	
		1,287.39	1,287.39
4.)	Printing, xeroxing, drafting film & supplies, contract drafting services:		
	Wollex invoice	738.61	
	" pending	1,700.00	
	Gledhill invoice	156.65	
		2,595.26	2,595.26
5.)	Photomosaic preparation, enlargements & prints		505.34
6.)	Airphotos, maps (geology & aeromagnetic), and geological reports		46.50

7.) *Administrative charges:*
Wollex Exploration Ltd. - 5% of third party expenses
Gledhill Consultants Inc. - 10% of third party expenses, exclusive of equipment rental charges.

Wollex	*$1,775.00*	
Gledhill	*319.94*	
	2,094.94	*$2,094.94*
	SUB-TOTAL	*$21,914.06*

MOBILIZATION, DEMOBILIZATION & FIELD EXPENSES

8.) *Airborne systems rental: SAR-1 airborne gamma ray spectrometer (Goldak Exploration Technology Ltd.)*

1 month rental	*$4,750.00*	
Short term insurance	*795.00*	
Helicopter installation, calibration & orientation survey, servicing, recorder paper and miscellaneous supplies	*1,472.96*	
	7,017.96	*7,017.96*

9.) *Geophysical instruments and equipment rentals:*

1 E.D.A. RD200 portable Radon Emanometer, 2 mo.	*928.04*	
1 Crone Radem VLF-EM, 3 mo.	*782.07*	
1 SRAT SPP2 Scintillometer, 2 mo.	*300.00*	
2 Exploranium Scintillometers x 2½ mo. each	*1,075.00*	
1 Exploranium DISA 400 Spectrometer, 1 mo.	*856.00*	
1 Scintrex GIS-2 Spectrometer, 3 mo.	*900.00*	
1 Scintrex Scintillometer, 1½ mo.	*300.00*	
2 Canadian Marconi radio-telephones, 3 mo.	*600.00*	
Antennaes, servicing & installation of 4 frequency crystals	*538.42*	
4 tents	*200.00*	
1 Atlas Copco 'Cobra' rock drill, 1 mo.	*200.00*	
1 Ponar grab sampler & 1 Flagen core sampler (both for lake-bottom sediment sampling)	*200.00*	
	6,879.53	*6,879.53*

10.) *Camp equipment, tools, lumber, disposable supplies*

Wollex Exploration invoice	*1,302.91*	
Gledhill Consultants invoice	*814.21*	
	2,117.12	*2,117.12*

11.) *Travel expenses, room & board, airfare, etc.*
Toronto - Andrew Lake & return for Gledhill crew & camp equipment. Calgary - Andrew L. & return twice, J. R. Allan. Air freight on equipment & geochem samples. Travel expenses to Ft. Smith & Uranium City on expediting.

Sackville Oil & Minerals	*59.45*	
T. Gledhill invoices	*2,967.06*	
Wollex Exploration invoices	*1,297.95*	
	4,324.46	*4,324.46*

12.) Room & board, Canadian Frontier Lodges Ltd. Andrew Lake Lodge basecamp		$7,741.00
13.) Food & disposable supplies, Andrew Lake flycamp		2,560.67
14.) Boats, outboard motors & gas; rental from Andrew Lake Lodge		2,390.00
15.) Fuel, aviation gas, boat gas, naphtha & oil		1,834.57
16.) Flying costs:		
Apex Helicopters; Bell 206B (airborne survey & crew pickup and placement)	16,390.00	
Can Air; Canso - fuel drum return to Uranium City & 1 emergency trip to Uranium City	467.00	
Fort Smith Air Services; Cessna 185 & Turbo-Beaver - mob., demob., service flights & crew placement & pickup during radiometric survey ground follow-up	6,376.20	
Norcanair Ltd.; Twin Otter, Single Otter & Cessna 185 - fuel placement from Uranium City, service flights	2,432.00	
	25,665.20	25,665.20
17.) Salaries; field & travel time		
[redacted] geologist/project supervisor	9,425.00	
[redacted] geologist	3,633.10	
[redacted] instrument operator/prospector	8,350.00	
[redacted] instrument operator/prospector	8,350.00	
[redacted] junior assistant		
[redacted] " "		
[redacted] " "		
[redacted] " "		
[redacted] " "	8,243.75	
	38,001.85	38,001.85
18.) Assays:		
Loring Labs, Calgary; 981 soil geochem samples 15 rock samples		
Chemes Labs, Calgary; 943 soil geochem samples		6,292.80
19.) Track Etch Cups, Terradex Corp. 200 cups x $13.93 each		2,786.00
	SUB-TOTAL	$107,611.16
	TOTAL	$129,525.22

GOLDAK EXPLORATION TECHNOLOGY LTD.

SAR-1 SYSTEM FOR AIRBORNE RADIOMETRY

The SAR-1 incorporates a large 13" dia. by 6" thick Harshaw Na(Tl)I detector for a total crystal volume of 796 cubic inches. The electronics are all Ortec nuclear modules - these equal or exceed the specifications of most airborne systems in use today. The sum of all drifts and non-linearities is less than the width of the recorder pen line. All modules are field replaceable in a few seconds.

The SAR-1 is a two-channel system, each channel being settable from 10 KeV to 10 MeV. For the purposes of this survey, the two channels employed were Channel 1 - total count (greater than 0.25 MeV) and Channel 2 - uranium + thorium (1.62 MeV - 3.00 MeV).

Dual linear/logarithmic analog ratemeters are provided with both background suppression from 0 to 100% and an audible alarm with adjustable threshold and volume. A high-quality Brush 222 recorder records the two channels of analog data. An inverter powers the electronics from the 24-28 vdc aircraft battery.

The entire system was conveniently mounted inside a Bell 206 B Jet Ranger float-equipped helicopter.

Crystal Detector -	13" diameter, 6" thick Harshaw NaI(Tl) crystal viewed by four selected RCA 8055 5" diameter photomultipliers with parallel voltage divider harness. Detector set in polyethylene foam thermal insulation. Weight 146 lbs.
Preamplifier -	Charge sensitive, input capacity 0, 100, 200 or 500 pf. Nonlinearity better than 0.25%.
Amplifier -	Active filter pole-zero cancellation shaping type amplifier with variable gain (1 to 640) and variable shaping characteristics. Unipolar or bipolar output. Linearity $\pm$0.15%, temperature stability 0.02%/^{o}C, operating temperature 0 to 50^{o}C.
Single-Channel Analyzer -	Accepts uni or bi-polar pulses from amplifier, 0 to 10V. Upper and lower energy discrimination levels adjustable 0 to 10V with 10 turn potentiometer. Less than 10 millivolts width variation over linear 0 to 10V range. Nonlinearity less than $\pm$ 0.25%. Temperature stability 0.01%. Temperature range 0 to 50^{o}C.

Integral Discriminator- *Accepts uni or bi-polar pulses from amplifier. Energy discrimination level adjustable 0 to 10V by 10 turn potentiometer, 0.1% resettability. Stability better than 1.25 mv/°C. Nonlinearity better than 0.25% over entire range. Operating temperature 0 to 50°C.*

Log/Lin Ratemeter - *Eleven linear ranges from 10 to 10^6 counts/sec. full scale. Temperature stability better than ± 0.05%/°C in range 0 to 50°C. Output nonlinearity less than ± 0.15% of full scale. One logarithmic 5-decade range from 10^1 to 10^6 cps. Analog output 0 to 10V, 100 ohms. Zero-suppression control enables subtraction of background. Audible output can be set for threshold and volume.*

High Voltage Supply - *Output 0 to 3000 V, 10 ma. Regulation better than 0.0025%. Stability better than 0.03% per 24 hours. Ripple less than 10 mv peak to peak. Resettability better than 0.1%. Temperature stability better than 50 parts per million per °C.*

Weight - *Weight of entire electronics package approximately 76 lbs.*

Recorder - *Brush 222 Battery Powered (12 to 30 vdc from helicopter battery). Two channel recorder with pressure-ink system. Two additional event markers. Nonlinearity ± 0.5% full scale. Chart speeds 1, 2, 5, 10, 25, 50 mm/sec. by push button selector. Zero and gain instability better than ± 0.05% per 8 hours. Weight 26 lbs.*

Inverter - *Topaz GZ-250, 250 watt sine wave inverter, 1% frequency stability, -20°C to +50°C operating range. Inputs reverse polarity protected and outputs protected against overload and short circuit. Output regulation ± 2%. Weight 39 lbs.*

Airborne Anomalies Not Field Examined During 1976 Field Season

Sheet	Anomaly No.	Location	Priority
76-1	28E-A	½ mi. W. of Morris Lake, Sask.	Third
	28W-B	"	"
	70W-B	1 mi. WNW of Unger Lake, Sask.	"
	67E-B	SE corner of CBS-5407	"
	85W-C	North	
	86E-C		
	87W-B,C.D		
	8E-D		
	87E-A,D		
	8W-C	South end of Permit 182	
	9W-A	1½ to 3 mi. W. of	First
	9E-B	Cherry Lake	
	89W-B		
	10W-C		
	10E-A		
	28W-B,C	South	
	11W-A	½ mi. N. of Spider Lake, Permit 182	First
	70W-C	" "	"
	7E-A	" "	"
	12W-B	¼ mi. W. of Ilo Lake, Permit 182	First
	70W-B	" Permit 247	"
	8E-C	1½ mi. S.E. of Pans Lake, Permit 184	Second
	12W-C	½ mi. N.E. of Pans Lake, open ground	"
	15W-D	1 mi. N. of Pans Lake, open ground	"
	66E-A	1¼ mi. N.E. of Carrot Lake, Permit 182	First
	68E-C	3/4 mi. ENE " "	"
	14W-B	½ mi. ENE " "	"
	70E-A	¼ mi. S.E. " Permit 247	"
	39W-A	3/4 mi. NW of Flagon Lake, open ground	Third
	80E-B	¼ mi. W of W. shore of Andrew Lake along S.E. boundary of Permit 183	Second

Sheet	Anomaly No.	Location	Priority
76-2	48E-D	⅛ mi. W. of W. shore of Andrew Lake N.W. of Sonja Island, open ground	Second
	71E-B	3/4 mi. E. of N.W. shore of Andrew Lake, open ground	"
	90E-A	1 mi. ENE of N. end of Swinnerton Lake, open ground	Third
	76W-C	½ mi. N.W. of Henson Lake, Permit 183	Second
	B-1S-A	½ mi. E. of N. end of Bayonet Lake	First
	B-1N-F	along Bonny Fault trend	First
	60E-A	⅛ mi. E. of S. end of Collins Lake	Second
	60W-E	open ground	"
76-3	13S-B	N.E. Charles Lake District	Third
	4S-C	"	Second
	5N-A	"	"
	7S-A	S.E. "	Third
	21N-B	1½ mi. N. of Arch Lake	Second
	22S-C		"
	20S-B	N.W. corner of Sheet 76-3	Second
	20N-F		
	21S-B		
	21N-F,G		
	22S-I		

Terradex Corporation
1900 Olympic Boulevard
Walnut Creek, California 94596
Phone: (415) 938-2545 Telex: 33-7793

TERRADEX

October 18, 1976

J. R. Allan
Wollex Exploration Ltd.
Ste 810, Norcen Tower
715 - 5th Avenue S.W.
Calgary, Alberta T2P On2
Canada

Dear Mr. Allan,

I am enclosing a set of final tabulated data from your recent 200 cup Track Etch survey of the Andrew Lake Area. 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 3.1 to 143.5 T/sq.mm and the mean of the background distribution for the area was 38.5 T/sq.mm. The standard deviation of the background mean was 19.8 T/sq.mm or 52%.

The background mean and its standard deviation are related to shallow mineralization of uranium at ppm levels. The value is slightly high compared to the range of other values for your area. 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 ranges 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	7	80.3 - 97.0	2.1 - 2.5
3 - 4	3	100.2 - 115.8	2.6 - 3.0
3 - 4	1	119.6	3.1
over 5	1	143.5	3.7

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 5 points have a Z greater than 3, or 2.5% of the total. This, in our experience, is a fairly low percentage and is indicative of a slight potential for mineralization, unless there occurs a strong spatial clustering of high ranking points.

The Track Etch radon contour map was computer generated using a 6 point weighted average computer smoothing routine and it was drawn with 10 T/sq.mm contour intervals. With this technique you may find some higher contour intervals between the actual data points but this is usual since the computer attempts to interpolate intermediate values based on the general average values measured in the area. Short incomplete contour lines may appear on the map without identifying numbers but their values can usually be determined from adjacent contour values. The contour map shows small +'s at the locations where the field cups were located. This map was drawn to the same scale as the field location map you supplied us so it can be used by overlaying on your base map.

The map shows one good multi-point anomaly centered around cup number 18212. Support for this high point may come from cups 18180, 18214 and possibly a trend to the southeast including cups 18270 and 18274. A lesser multipoint anomaly may occur in the area of cups 18340 and 18350 with support from 18336.

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

Sincerely,

[redacted]

James C. Fisher
Senior Geologist

JCF/kem
Enclosures

WOLLEX ANDREW LAKE

CUP SERIAL NUMBER	DETECTOR READING (T/SQ. MM.)	FIELD NOTES AND DATA	
18151.	45.649	L24N	24E
18152.	31.519	L24N	20E
18153.	32.606	L24N	16E
18154.	28.259	L24N	12E
18155.	33.693	L24N	8E
18156.	67.386	L24N	4E
18157.	44.562	L24N	BL
18158.	36.954	L28N	2W
18159.	20.651	L28N	2E
18160.	33.693	L28N	6E
18161.	22.824	L28N	10E
18162.	46.736	L28N	14E
18163.	30.433	L28N	18E
18164.	41.301	L28N	22E
18165.	33.693	L32N	20E
18166.	19.564	L32N	16E
18167.	29.346	L32N	12E
18168.	17.390	L32N	8E
18169.	63.039	L32N	4E
18170.	40.214	L32N	2W
18171.	29.346	L32N	2E
18172.	24.998	L32N	6E
18173.	31.519	L32N	10E
18174.	44.562	L36N	8E
18175.	35.867	L32W	48W
18176.	24.998	L32W	44W
18177.	33.693	L32W	40W
18178.	52.170	L32W	36W
18179.	41.301	L32W	32W
18180.	119.556	L32W	28W
18181.	44.562	L32W	24W
18182.	48.909	L36N	22W
18183.	26.085	L36N	26W
18184.	22.824	L36N	30W
18185.	56.518	L36N	34W
18186.	29.346	L36N	38W
18187.	65.212	L36N	42W
18188.	15.216	L36N	46W
18189.	51.083	L40N	44W
18190.	34.780	L40N	40W
18191.	31.519	L40N	36N
18192.	68.473	L40N	32W
18193.	57.604	L40N	28W
18194.	22.824	L40N	24W
18195.	31.519	L40N	20W
18196.	32.345	L40N	10W
18197.	35.476	L40N	6W
18198.	38.606	L40N	2W

WOLLEX ANDREW LAKE

CUP SERIAL NUMBER	DETECTOR READING (T/SQ. MM.)	FIELD NOTES AND DATA
18199.	17.738	L40N 2E
18200.	80.342	L40N 6E
18201.	15.651	L40N 10E
18202.	43.823	L40N 14E
18203.	39.649	L44N 16E
18204.	37.562	L44N 12E
18205.	41.736	L44N 8E
18206.	21.911	L44N 4E
18207.	17.738	L44N BL
18208.	37.562	L44N 4W
18209.	51.127	L44N 8W
18210.	57.387	L44N 12W
18211.	54.344	L44N 22W
18212.	143.468	L44N 26W
18213.	65.212	L44N 30W
18214.	95.645	L44N 34W
18215.	54.344	L44N 38W
18216.	16.303	L44N 42W
18217.	26.085	L44N 46W
18218.	11.956	L44N 50W
18219.	32.345	L48N 52W
18220.	13.564	L48N 48W
18221.	39.649	L48N 44W
18222.	49.040	L48N 40W
18223.	59.474	L48N 36W
18224.	73.038	L48N 32W
18225.	29.215	L48N 28W
18226.	44.866	L48N 24W
18227.	49.040	L48N 18W
18228.	66.778	L48N 10W
18229.	52.170	L48N 6W
18230.	43.823	L48N 18E
18231.	41.301	L48N 2W
18232.	14.129	L48N 2E
18233.	7.608	L48N 6E
18234.	34.780	L48N 14E
18235.	52.170	L52N 12E
18236.	13.564	L52N 8E
18237.	19.825	L52N 4E
18238.	40.693	L52N BL
18239.	47.996	L52N 4W
18240.	44.866	L52N 8W
18241.	35.476	L52N 12W
18242.	47.996	L52N 16W
18243.	36.519	L52N 20W
18244.	59.474	L52N 26W
18245.	73.038	L52N 30W
18246.	54.257	L52N 34W
18247.	52.170	L52N 38W
18248.	30.259	L52N 42W

WOLLEX ANDREW LAKE

CUP SERIAL NUMBER	DETECTOR READING (T/SQ. MM.)	FIELD NOTES AND DATA
18249.	25.042	L52N 46W
18250.	19.564	L52N 50W
18251.	50.083	L56N 18W
18252.	27.128	L56N 14W
18253.	27.128	L56N 10W
18254.	33.389	L56N 6W
18255.	45.910	L56N 2W
18256.	29.215	L56N 2E
18257.	44.866	L56N 6E
18258.	28.172	L56N 10E
18259.	67.821	L56N 14E
18260.	30.259	L60N 16E
18261.	31.302	L60N 12E
18262.	27.128	L60N 8E
18263.	37.562	L60N 4E
18264.	45.910	L60N 0
18265.	55.300	L60N 4W
18266.	35.476	L60N 8W
18267.	27.128	L60N 12W
18268.	9.391	L60N 16W
18269.	36.519	L60N 20W
18270.	100.166	L60N 24W
18271.	26.085	L64N 30W
18272.	39.649	L64N 26W
18273.	36.519	L64N 22W
18274.	93.906	L64N 18W
18275.	29.215	L64N 14W
18276.	37.562	L64N 10W
18277.	45.910	L64N 6W
18278.	30.259	L64N 2W
18279.	31.302	L64N 2E
18280.	69.908	L64N 6E
18281.	46.953	L64N 10E
18282.	32.345	L68N 8E
18283.	38.606	L68N 4E
18284.	49.040	L68N 0
18285.	58.430	L68N 4W
18286.	29.215	L68N 8W
18287.	26.085	L68N 12W
18288.	36.519	L68N 16W
18289.	62.604	L68N 20W
18290.	29.215	L68N 28W
18291.	9.391	L68N 28W
18292.	43.823	L68N 32W
18293.	28.172	L72N 30W
18294.	14.608	L72N 26W
18295.	32.345	L72N 22W
18296.	31.302	L72N 18W
18297.	18.781	L72N 14W
18298.	20.868	L72N 10W

WOLLEX ANDREW LAKE

CUP SERIAL NUMBER	DETECTOR READING (T/SQ. MM.)	FIELD NOTES AND DATA
18299.	36. 519	L72N 6W
18300.	11. 477	L72N 2W
18301.	14. 608	L72N 2E
18302.	40. 693	L72N 6E
18303.	18. 781	L72N 10E
18304.	43. 823	L76N 12E
18305.	4. 174	L76N 8E
18306.	6. 260	L76N 4E
18307.	82. 429	L76N BL
18308.	17. 738	L76N 4W
18309.	97. 036	L76N 8W
18310.	51. 127	L76N 12W
18311.	30. 259	L76N 16W
18312.	44. 866	L76N 20W
18313.	41. 736	L76N 24W
18314.	26. 085	L80N 22W
18315.	27. 128	L80N 18W
18316.	29. 215	L80N 12W
18317.	10. 434	L80N 8W
18318.	6. 260	L80N 4W
18319.	39. 649	L80N 2W
18320.	33. 389	L80N 2E
18321.	62. 604	L80N 6E
18322.	43. 823	L80N 10E
18323.	25. 042	L80N 14E
18324.	10. 434	L84N 20E
18325.	7. 304	L84N 16E
18326.	20. 868	L84N 12E
18327.	34. 432	L84N 8E
18328.	8. 347	L84N 4E
18329.	15. 651	L84N BL
18330.	20. 868	L84N 4W
18331.	53. 213	L84N 8W
18332.	3. 130	L84N 12W
18333.	8. 347	L84N 16W
18334.	41. 736	L88N 18W
18335.	54. 257	L88N 14W
18336.	87. 646	L88N 10W
18337.	31. 302	L88N 6W
18338.	52. 170	L92N BL
18339.	40. 693	L92N 4W
18340.	115. 817	L92N 8W
18341.	35. 476	L92N 12W
18342.	69. 908	L92N 16W
18343.	64. 691	L92N 20W
18344.	95. 993	L92N 24W
18345.	15. 651	L96N 22W
18346.	7. 304	L96N 18W
18347.	38. 606	L96N 14W
18348.	69. 908	L96N 10W

WOLLEX ANDREW LAKE

CUP SERIAL NUMBER	DETECTOR READING (T/SQ. MM.)	FIELD NOTES AND DATA
18349.	57.387	L96N 6W
18350.	108.514	L96N 2W

WOLLEX ANDREW LAKE

DETECTOR READING (T/SQ. MM.)	CUP SERIAL NUMBER	FIELD NOTES AND DATA
3.130	18332.	L84N 12W
4.174	18305.	L76N 8E
6.260	18306.	L76N 4E
6.260	18318.	L80N 4W
7.304	18325.	L84N 16E
7.304	18346.	L96N 18W
7.608	18233.	L48N 6E
8.347	18333.	L84N 16W
8.347	18328.	L84N 4E
9.391	18291.	L68N 28W
9.391	18268.	L60N 16W
10.434	18317.	L80N 8W
10.434	18324.	L84N 20E
11.477	18300.	L72N 2W
11.956	18218.	L44N 50W
13.564	18220.	L48N 48W
13.564	18236.	L52N 8E
14.129	18232.	L48N 2E
14.608	18301.	L72N 2E
14.608	18294.	L72N 26W
15.216	18188.	L36N 46W
15.651	18345.	L96N 22W
15.651	18201.	L40N 10E
15.651	18329.	L84N BL
16.303	18216.	L44N 42W
17.390	18168.	L32N 8E
17.738	18199.	L40N 2E
17.738	18207.	L44N BL
17.738	18308.	L76N 4W
18.781	18303.	L72N 10E
18.781	18297.	L72N 14W
19.564	18166.	L32N 16E
19.564	18250.	L52N 50W
19.825	18237.	L52N 4E
20.651	18159.	L28N 2E
20.868	18326.	L84N 12E
20.868	18298.	L72N 10W
20.868	18330.	L84N 4W
21.911	18206.	L44N 4E
22.824	18161.	L28N 10E
22.824	18194.	L40N 24W
22.824	18184.	L36N 30W
24.998	18176.	L32W 44W
24.998	18172.	L32N 6E
25.042	18323.	L80N 14E
25.042	18249.	L52N 46W
26.085	18183.	L36N 26W
26.085	18217.	L44N 46W

WOLLEX ANDREW LAKE

DETECTOR READING (T/SQ. MM.)	CUP SERIAL NUMBER	FIELD NOTES AND DATA
26.085	18287.	L68N 12W
26.085	18271.	L64N 30W
26.085	18314.	L80N 22W
27.128	18315.	L80N 18W
27.128	18267.	L60N 12W
27.128	18253.	L56N 10W
27.128	18262.	L60N 8E
27.128	18252.	L56N 14W
28.172	18293.	L72N 30W
28.172	18258.	L56N 10E
28.259	18154.	L24N 12E
29.215	18275.	L64N 14W
29.215	18225.	L48N 28W
29.215	18256.	L56N 2E
29.215	18286.	L68N 8W
29.215	18316.	L80N 12W
29.215	18290.	L68N 28W
29.346	18171.	L32N 2E
29.346	18167.	L32N 12E
29.346	18186.	L36N 38W
30.259	18311.	L76N 16W
30.259	18248.	L52N 42W
30.259	18260.	L60N 16E
30.259	18278.	L64N 2W
30.433	18163.	L28N 18E
31.302	18279.	L64N 2E
31.302	18261.	L60N 12E
31.302	18337.	L88N 6W
31.302	18296.	L72N 18W
31.519	18195.	L40N 20W
31.519	18191.	L40N 36N
31.519	18173.	L32N 10E
31.519	18152.	L24N 20E
32.345	18219.	L48N 52W
32.345	18295.	L72N 22W
32.345	18282.	L68N 8E
32.345	18196.	L40N 10W
32.606	18153.	L24N 16E
33.389	18254.	L56N 6W
33.389	18320.	L80N 2E
33.693	18155.	L24N 8E
33.693	18165.	L32N 20E
33.693	18177.	L32W 40W
33.693	18160.	L28N 6E
34.432	18327.	L84N 8E
34.780	18190.	L40N 40W
34.780	18234.	L48N 14E
35.476	18341.	L92N 12W
35.476	18197.	L40N 6W
35.476	18241.	L52N 12W

WOLLEX ANDREW LAKE

DETECTOR READING (T/SQ. MM.)	CUP SERIAL NUMBER	FIELD NOTES AND DATA
35.476	18266.	L60N 8W
35.867	18175.	L32W 48W
36.519	18299.	L72N 6W
36.519	18288.	L68N 16W
36.519	18243.	L52N 20W
36.519	18269.	L60N 20W
36.519	18273.	L64N 22W
36.954	18158.	L28N 2W
37.562	18208.	L44N 4W
37.562	18276.	L64N 10W
37.562	18263.	L60N 4E
37.562	18204.	L44N 12E
38.606	18283.	L68N 4E
38.606	18198.	L40N 2W
38.606	18347.	L96N 14W
39.649	18272.	L64N 26W
39.649	18221.	L48N 44W
39.649	18203.	L44N 16E
39.649	18319.	L80N 2W
40.214	18170.	L32N 2W
40.693	18302.	L72N 6E
40.693	18238.	L52N BL
40.693	18339.	L92N 4W
41.301	18164.	L28N 22E
41.301	18231.	L48N 2W
41.301	18179.	L32W 32W
41.736	18334.	L88N 18W
41.736	18205.	L44N 8E
41.736	18313.	L76N 24W
43.823	18304.	L76N 12E
43.823	18230.	L48N 18E
43.823	18292.	L68N 32W
43.823	18322.	L80N 10E
43.823	18202.	L40N 14E
44.562	18181.	L32W 24W
44.562	18157.	L24N BL
44.562	18174.	L36N 8E
44.866	18257.	L56N 6E
44.866	18312.	L76N 20W
44.866	18240.	L52N 8W
44.866	18226.	L48N 24W
45.649	18151.	L24N 24E
45.910	18277.	L64N 6W
45.910	18255.	L56N 2W
45.910	18264.	L60N 0
46.736	18162.	L28N 14E
46.953	18281.	L64N 10E
47.996	18239.	L52N 4W
47.996	18242.	L52N 16W
48.909	18182.	L36N 22W

WOLLEX ANDREW LAKE

DETECTOR READING (T/SQ. MM.)	CUP SERIAL NUMBER	FIELD NOTES AND DATA
49.040	18227.	L48N 18W
49.040	18284.	L68N 0
49.040	18222.	L48N 40W
50.083	18251.	L56N 18W
51.083	18189.	L40N 44W
51.127	18209.	L44N 8W
51.127	18310.	L76N 12W
52.170	18229.	L48N 6W
52.170	18235.	L52N 12E
52.170	18338.	L92N BL
52.170	18247.	L52N 38W
52.170	18178.	L32W 36W
53.213	18331.	L84N 8W
54.257	18246.	L52N 34W
54.257	18335.	L88N 14W
54.344	18211.	L44N 22W
54.344	18215.	L44N 38W
55.300	18265.	L60N 4W
56.518	18185.	L36N 34W
57.387	18210.	L44N 12W
57.387	18349.	L96N 6W
57.604	18193.	L40N 28W
58.430	18285.	L68N 4W
59.474	18244.	L52N 26W
59.474	18223.	L48N 36W
62.604	18289.	L68N 20W
62.604	18321.	L80N 6E
63.039	18169.	L32N 4E
64.691	18343.	L92N 20W
65.212	18187.	L36N 42W
65.212	18213.	L44N 30W
66.778	18228.	L48N 10W
67.386	18156.	L24N 4E
67.821	18259.	L56N 14E
68.473	18192.	L40N 32W
69.908	18280.	L64N 6E
69.908	18348.	L96N 10W
69.908	18342.	L92N 16W
73.038	18224.	L48N 32W
73.038	18245.	L52N 30W
80.342	18200.	L40N 6E
82.429	18307.	L76N BL
87.646	18336.	L88N 10W
93.906	18274.	L64N 18W
95.645	18214.	L44N 34W
95.993	18344.	L92N 24W
97.036	18309.	L76N 8W
100.166	18270.	L60N 24W
108.514	18350.	L96N 2W
115.817	18340.	L92N 8W

WOLLEX ANDREW LAKE

DETECTOR READING (T/SQ. MM.)	CUP SERIAL NUMBER	FIELD NOTES AND DATA
119.556	18180.	L32W 28W
143.468	18212.	L44N 26W

To: WOLLEX EXPLORATIONS LTD.,
806 Norcen Tower,
615 - 5th Ave. S.W.,
Calgary, Alberta T2P 0X8

ATTN: Murray Pyke

File No. 11853
Date August 14, 1976
Samples Chip

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	Chemical % U3O8
"Chip Samples"	
13001	.002
13002	.005
13003	.011
13004	.009
13005	.006
13006	.001
13007	.006
13008	.112
13009	.004
13010	.152
13011	3.490
13012	.074
13013	.088
13014	.003
13015	.003

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

[redacted]
Licensed Assayer of British Columbia

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2021 - 41 AVE. N.E.
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TELEX: 038-25541

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348-04-01
PROJECT NO.

Location	U (ppm)
H-41	<0.5
42	<0.5
43	<0.5
44	<0.5
45	<0.5
46	<0.5
47	1.0
48	<0.5
49	<0.5
H-50	<0.5
51	<0.5
52	<0.5
53	<0.5
54	<0.5
H-55	1.0
A-43	<0.5
44	<0.5
45	1.0
46	6.5
47	6.5
48	3.5
49	4.0
50	<0.5
51	4.5
52	2.5
53	2.5
54	5.0
55	1.0
56	1.0
57	<0.5
58	<0.5
59	5.0
A-60	6.5
61	2.5
62	<0.5
63	<0.5
64	<0.5
65	<0.5
66	9.5
67	2.5

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Wollex Exploration
715 - 5th AVenue S.W.
Calgary,Alberta

PROJECT NO. 348-04-01

Location	U (ppm)
H-1	<0.5
2	<0.5
3	<0.5
4	<0.5
5	<0.5
6	<0.5
7	<0.5
8	<0.5
9	<0.5
H-10	<0.5
11	<0.5
12	<0.5
13	<0.5
14	<0.5
15	<0.5
16	<0.5
17	<0.5
18	<0.5
19	<0.5
H-20	<0.5
21	<0.5
22	<0.5
23	<0.5
24	<0.5
25	<0.5
26	<0.5
27	<0.5
28	<0.5
29	<0.5
H-30	<0.5
31	<0.5
32	<0.5
33	<0.5
34	4.5
35	1.0
36	1.0
37	<0.5
38	<0.5
39	<0.5
H-40	<0.5

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PROJECT NO. 348-04-01

Location		U (ppm)
A-68		1.0
69		2.5
A-70		<0.5
71		<0.5
72		<0.5
73		2.5
74		3.5
75		<0.5
76		4.0
77		1.0
78		<0.5
79		1.5
A-80		<0.5
81		<0.5
82		<0.5
83		<0.5
84		3.5
85		<0.5
86		60.0
87		9.5
88		1.0
89		1.0
A-90		<0.5
91		1.0
92		<0.5
93		<0.5
A-94		1.0
BLS BLW 2E	Sample No.	6.5
BLS 4NO BL	S-1	<0.5
BLS 4N 1W	S-2	<0.5
BLS 4N 2W	S-3	3.5
BLS 4N 3W	S-4	2.5
BLS 4N 4W	S-5	3.5
BLS 4N 1E	S-6	0.5
BLS 4N 2E	S-7	1.0
BLS 4N 3E	S-8	<0.5
BLS 4N 4E	S-9	<0.5
BLS 8N 0	S-10	0.5
BLS 8N 1W	S-11	1.0
BLS 8N 2W	S-12	1.5

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PROJECT NO. 348-04-01

Location	Sample No.	U (ppm)
BLS 8N 4W	S-13	1.0
BLS 8N 1E	S-14	<0.5
BLS 8N 2E	S-15	<0.5
BLS 8N 3E	S-16	<0.5
BLS 8N 4E	S-17	<0.5
BLS 12N 0	S-18	<0.5
BLS 12N 1W	S-19	<0.5
BLS 12N 2W	S-20	1.0
BLS 12N 3W	S-21	<0.5
BLS 12N 4W	S-22	<0.5
BLS 12N 1E	S-23	<0.5
BLS 12N 2E	S-24	<0.5
BLS 12N 3E	S-25	<0.5
BLS 12N 4E	S-26	<0.5
BLS 12N 5E	S-27	<0.5
BLS 12N 6E	S-28	1.0
BLS 16N 1W	S-30	<0.5
BLS 16N 2W	S-31	<0.5
BLS 16N 3W	S-32	<0.5
BLS 16N 4W	S-33	0.5
BLS C 16E 0	S-29	<0.5
16N 1E	S-34	1.0
16N 3E	S-35	1.0
16N 4E	S-36	<0.5
16N 6E	S-37	<0.5
16N 7E	S-38	<0.5
16N 8E	S-39	<0.5
16N 9E	S-40	<0.5
BLS 20N 0	S-41	<0.5
20N 1W	S-42	<0.5
20N 2W	S-43	<0.5
20N 3W	S-44	<0.5
20N 4W	S-45	<0.5
20N 1E	S-46	<0.5
20N 2E	S-47	<0.5
20N 3E	S-48	<0.5
20N 4E	S-49	<0.5
20N 5E	S-50	<0.5
20N 6E	S-51	<0.5
20N 7E	S-52	<0.5

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Location	Sample Number	U (ppm)
BLS 20N 8E	S-53	<0.5
9E	S-54	<0.5
10E	S-55	<0.5
BLS 24N 0	S-56	<0.5
1W	S-57	<0.5
2W	S-58	<0.5
3W	S-59	<0.5
4W	S-60	<0.5
24N 1E	S-61	<0.5
2E	S-62	<0.5
3E	S-63	<0.5
4E	S-64	<0.5
28N 0	S-65	<0.5
1W	S-66	<0.5
2W	S-67	1.0
3W	S-68	<0.5
4W	S-69	<0.5
28N 1E	S-70	<0.5
2E	S-71	<0.5
3E	S-72	<0.5
4E	S-73	1.0
44N 3W	S-104	<0.5
4W	S-105	<0.5
48N 0	S-110	1.0
1W	S-111	<0.5
2W	S-112	<0.5
3W	S-113	<0.5
4W	S-114	<0.5
1E	S-115	<0.5
2E	S-116	<0.5
3E	S-117	<0.5
4E	S-118	1.0
52N 0	S-119	1.0
1W	S-120	<0.5
2W	S-121	2.5
3W	S-122	<0.5
4W	S-123	<0.5
1E	S-124	<0.5
2E	S-125	<0.5
3E	S-126	<0.5

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PROJECT NO. 348-04-01

Location	Sample Number	U (ppm)
BLS 4E	S-127	<0.5
S 32N-0	S-74	<0.5
1W	S-75	1.0
2W	S-76	4.0
3W	S-77	<0.5
4W	S-78	5.5
1E	S-79	1.0
2E	S-80	1.5
3E	S-81	2.0
4E	S-82	<0.5
36N 0	S-83	<0.5
1W	S-84	4.0
2W	S-85	0.5
3W	S-86	4.0
36N 4W	S-87	5.5
36N 1E	S-88	3.5
2E	S-89	3.5
3E	S-90	<0.5
4E	S-91	0.5
S 40N 0	S-92	<0.5
1W	S-93	8.0
2W	S-94	1.0
3W	S-95	<0.5
4W	S-96	0.5
1E	S-97	<0.5
2E	S-98	<0.5
3E	S-99	<0.5
4E	S-100	<0.5
S 44N 0	S-101	<0.5
1E	S-106	<0.5
2E	S-107	<0.5
3E	S-108	<0.5
4E	S-109	<0.5
S 44N 1W	S-102	<0.5
2W	S-103	<0.5
SS 1		6.5
4		0.5
5		<0.5
6		<0.5
8		<0.5

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348-04-01
PROJECT NO.

Location	U (ppm)
SS-9	<0.5
11	0.5
12	0.5
13	<0.5
14	<0.5
15	<0.5
16	<0.5
17	<0.5
18	<0.5
19	<0.5
20	2.0
21	<0.5
22	<0.5
23	<0.5
25	<0.5
26	<0.5
SS 32	<0.5

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Wollex Exploration
Suite 810, Norcen Tower
715 - 5 Ave. S.W.
Calgary, Alberta

PROJECT NO. 348-04-02

Parameter	Sample Number	U (ppm)	Soil Type
Line 0-3W	3450	1.0	C + S
0-5W	3452	1.0	S
0-6W	3453	<0.5	S
0-8W	3455	1.0	S
0-9W	3456	<0.5	S
0-11W	3458	<0.5	S
0-12W	3459	<0.5	C + S
0-14W	3461	<0.5	S
0-15W	3462	<0.5	S
0-17W	3464	<0.5	S
0-18W	3465	1.0	C
0-19W	3466	<0.5	C
0-20W	3467	>100.0	S + organic
Line 8N B.L.O.	3391	5.0	C
8N 1E	3392	<0.5	S
8N 3E	3394	4.0	C + organic
8N 4E	3395	0.5	C + organic
8N 6E	3397	<0.5	S
8N 1W	3390	<0.5	C
8N 2W	3389	<0.5	S
8N 3W	3388	8.0	C
8N 5W	3386	<0.5	S
8N 6W	3385	<0.5	S
8N 12W	3379	2.5	C
8N 15W	3376	<0.5	C
8N 17W	3374	<0.5	C
8N 21W	3369	60.0	C + organic
Line 12N B.L.O.	3348	<0.5	C
12 N 1W	3349	<0.5	C
12 N 2W	3350	<0.5	C
12 N 3W	3351	<0.5	S
12 N 4W	3352	1.0	S
12 N 6W	3354	<0.5	C
12 N 7W	3355	<0.5	C + S
12 N 2E	3346	62.0	C + organic
12 N 3E	3345	1.0	C + organic
12 N 11E	3337	<0.5	S
12 N 12E	3336	<0.5	C + organic
12 N 14E	3334	<0.5	S
12 N 15E	3333	<0.5	C + S

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PROJECT NO. 348-04-02

Wollex Exploration

Parameter	Sample Number	U (ppm)	Soil Type
12N 17E	3331	1.0	C
12N 18E	3330	100	C + organic
Line 16N 2W	3285	4.0	C
Line 20N 4W	3251	<0.5	S
20N 5W	3252	4.0	S + organic
20N 7W	3254	<0.5	S
20N 8W	3255	<0.5	C + S
20N 10W	3257	<0.5	S
20N 11W	3258	2.5	C + organic
20N 13W	3260	<0.5	C + S
20N 14W	3261	<0.5	C
20N 16W	3263	<0.5	C + organic
20N 19W	3266	<0.5	C + organic
20N 20W	3267	0.5	C
20N 29W	3276	<0.5	C + S
20N 31W	3278	<0.5	S
Line 28N 11W	3178	30.0	organic
28N 25E	3142	<0.5	C
28N 26E	3141	<0.5	C
28N 28E	3139	<0.5	C
28N 29E	3138	<0.5	C
28N 31E	3136	1.0	C + organic
28N 32E	3135	<0.5	C + S
28N 34E	3133	35.0	organic
28N 35E	3132	16.5	organic
28N 10W	3177	85.0	organic
Line 32N B.L.O.	3078	<0.5	S
32N 2W	3080	<0.5	S
32N 3W	3081	<0.5	S
32N 13W	3091	<0.5	S
32N 15W	3093	<0.5	S
32N 16W	3094	2.5	S
32N 18W	3096	<0.5	C + S
32N 22W	3100	<0.5	S
32N 49W	3127	0.5	S
Line 36N 4E	2965	1.0	C + S
36N 5E	2964	1.0	C
36N 5W	2974	3.5	S
36N 7W	2976	4.0	S
36N 8W	2977	1.0	S

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Wollex Exploration

PROJECT NO. 348-04-02

	Parameter	Sample Number	U (ppm)	Soil Type
Line	36N 11W	2980	1.0	S
	36N 14W	2983	6.5	C + organic
	36N 16W	2985	<0.5	C
	36N 17W	2986	0.5	C
	36N 19W	2988	<0.5	S
	36N 20W	2989	1.0	S
	36N 22W	2991	<0.5	S
	36N 34W	3003	<0.5	S + fine gravel
	36N 49W	3018	<0.5	"
	36N 50W	3019	<0.5	S
	36N 59W	3028	1.0	S
	36N 61W	3030	<0.5	S
Line	40N 2E	2893	<0.5	C
	40N 3E	2892	<0.5	C
	40N 5E	2890	<0.5	C
	40N 6E	2889	<0.5	C
	40N 7E	2888	<0.5	C
	40N 16E	2879	<0.5	S
	40N 16 + 81E	2878	<0.5	S + fine gravel
	40N 6W	2901	<0.5	C
	40N 7W	2902	1.0	S + fine gravel
	40N 9W	2904	<0.5	C
	40N 10W	2905	<0.5	C
	40N 12W	2907	40.0	organic
	40N 13W	2908	65.0	organic
	40N 16W	2911	<0.5	C
Line	44N 3E	2813	<0.5	S
	44N 4E	2812	<0.5	S
	44N 8E	2808	<0.5	S
	44N 16E	2800	<0.5	C
	44N 19E	2798	<0.5	S + fine gravel
	44N 25E	2791	<0.5	C + organic
	44N 31E	2785	<0.5	C
	44N 34E	2782	<0.5	C
	44N 9W	2825	0.5	C + S
	44N 44W	2860	<0.5	S
	44N 46W	2862	<0.5	S
	44N 50W	2866	<0.5	S
	44N 52W	2868	<0.5	S
	44N 54W	2870	<0.5	S

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Wollex Exploration

PROJECT NO. 348-04-02

Parameter	Sample Number	U (ppm)	Soil type
Line 44N 56W	2872	2.5	S
44N 57W	2873	<0.5	S
44N 78W		<0.5 ← No such location	
4S B.L.O.	3478	<0.5	S
4S 1E	3477	5.0	S
4S 3E	3475	8.0	C+S
4S 4E	3474	<0.5	S
4S 6E	3472	<0.5	S
4S 7E	3471	<0.5	C+S
4S 9E	3469	<0.5	S
4S 10E	3468	<0.5	C+S
4S 2W	3480	<0.5	S
4S 3W	3481	<0.5	S
4S 5W	3483	<0.5	C+S
4S 6W	3484	<0.5	C+S
4S 8W	3486	1.0	S
4S 9W	3487	<0.5	C
4S 11W	3489	<0.5	S
4S 12W	3490	2.5	C
4S 14W	3492	2.5	S
4S 15W	3493	0.5	S
4S 17W	3495	<0.5	C+S
4S 18W	3496	<0.5	S
Line 48N 4E	2706	<0.5	S
48N 5E	2705	<0.5	S
48N 7E	2703	<0.5	S
48N 8E	2702	<0.5	S
48N 22E	2688	<0.5	S
48N 23E	2687	1.0	S
48N 25E	2685	1.5	C+S
48N 26E	2684	<0.5	S
48N 28E	2682	1.0	S
48N 29E	2681	0.5	C+S
48N 31E	2679	<0.5	S
48N 32E	2678	<0.5	C
48N 13W	2723	<0.5	S
48N 16W	2726	1.0	S
48N 17W	2727	<0.5	C
48N 20W	2730	3.5	C
48N 22W	2732	1.0	C+S

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Wollex Exploration

PROJECT NO. 348-04-02

Parameter	Sample Number	U (ppm)	Soil Type
Line 48N 67W	2777	1.5	S + fine gravel
48N 68W	2778	<0.5	S
Line 56N 3E	2465	<0.5	S
56N 4E	2464	<0.5	S
56N 6E	2462	<0.5	S
56N 7E	2461	<0.5	S
56N 13E	2455	<0.5	S + fine gravel
56N 18E	2450	<0.5	C
56N 19E	2449	<0.5	C
56N 21E	2447	<0.5	C
56N 22E	2446	8.5	C
56N 24E	2444	<0.5	C
56N 25E	2443	<0.5	C
56N 27E	2441	17.5	C + organic
56N 28E	2440	4.0	C
56N 30E	2438	1.0	C
56N 31E	2437	<0.5	C
56N 32E	2436	<0.5	C
56N 33E	2435	<0.5	C
56N 34E	2434	<0.5	C
56N 36E	2432	<0.5	C + organic
56N 39E	2429	<0.5	S + fine gravel
56N 40E	2428	<0.5	S
56N 17W	2485	<0.5	S + fine gravel
56N 18W	2486	<0.5	S
56N 20W	2488	<0.5	C
56N 21W	(J-2489)	<0.5	C
56N 24W	(J-2492)	24.0	C + organic
56N 23W	2491	26.0	C + organic
56N 24W	(?) 34W	50.0	# 2502 ✓ C + organic
56N 27W	2495	60.0	C + organic
56N 28W	2496	60.0	C + organic
56N 31W	2499	30.0	C + organic
56N 32W	2500	10.5	C + organic
56N 35W	2503	17.5	C + organic
56N 38W	2506	18.5	C + organic
56N 40W	2508	16.0	C + organic
56N 41W	2509	20.0	C + organic
56N 44W	2512	6.0	C + organic
56N 45W	2513	1.0	C + organic

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	Parameter	Sample Number	U (ppm)	Soil type
Line	56N 47W	2515	1.5	S
	56N 48W	2516	1.5	S
	56N 50W	2518	<0.5	S
	56N 51W	2519	<0.5	S
	56N 53W	2521	<0.5	S
	56N 66W	2534	<0.5	S
	56N 68W	2536	<0.5	S
	56N 69W	2537	<0.5	S
	56N 71W	2539	<0.5	S
	56N 74W	2542	<0.5	S
	56N 75W	2543	3.5	S
Line	64N 12E	2228	<0.5	S
	64N 15E	2225	3.0	C + S
	64N 16E	2224	<0.5	S + organic
	64N 20E	2220	>100	organic
	64N 21E	2219	2.5	S + organic
	64N 23E	2217	<0.5	S
	64N 24E	2216	<0.5	C + S
	64N 26E	2214	<0.5	S
	64N 27E	2213	<0.5	S
	64N 29E	2211	<0.5	C
	64N 30E	2210	<0.5	S
	64N 40E	2200	<0.5	S
	64N 41E	2199	<0.5	S
	64N 33W	3609	<0.5 ✓	S + fine gravel
64N ?	56N 34W	3610	<0.5 ✓	"
	64N 50W	3612	<0.5	C + organic
	64N 51W	3613	<0.5	"
	64N 53W	3615	<0.5	"
	64N 54W	3616	13.5	"
	64N 56W	3618	10.5	"
	64N 57W	2297	<0.5	S + fine gravel
	64N 58W	2298	<0.5	"
	64N 67W	2307	<0.5	S
Line	68N 13E	2180	<0.5	C + S
	68N 14E	2181	6.5	C + S
	68N 17E	2183	<0.5	S
	68N 18E	2184	<0.5	S
	68N 20E	2186	1.0	S
	68N 21E	2187	<0.5	S

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	Parameter	Sample Number	U (ppm)	Soil Type
Line	68N 23E	2189	1.5	S
	68N 24E	2190	<0.5	S+ fine gravel
	68N 26E	2192	<0.5	C
	68N 22E (27E?)	2193	<0.5 ✓	S
	68N 29E	2195	<0.5	S
	68N 31E	2196	1.0	S
	68N 34W	2133	1.0	S
	68N 36W	2132	1.0	S+ organic
	68N 42W	2127	1.0	S
	68N 43W	2126	<0.5	S
	68N 45W	2124	2.5	S
	68N 46W	2123	1.0	S
	68N 55W	2115	5.5	S
	68N 56W	2114	4.0	S
Line	72N 13E	2036	3.5	S
	72N 14E	2035	3.0	C
	72N 19E	2030	1.0	C
	72N 20E	2029	<0.5	C
	72N 7W	2056	<0.5	S
	72N 8W	2057	<0.5	S
	72N 10W	2059	2.5	S
	72N 51W	2097	2.5	C
Line	76N B.L.O.	1959	0.5	S
	76N 1E	1958	<0.5	S
	76N 9E	1950	5.0	S+ fine gravel
	76N 10E	1949	5.5	S
	76N 12E	1947	<0.5	S
	76N 13E	1946	<0.5	S
	76N 15E	1944	<0.5	C+S
	76N 16E	1943	<0.5	S
	76N 2W	1961	<0.5	S+ fine gravel
	76N 3W	1962	3.0	"
	76N 8W	1967	<0.5	S
	76N 25W	1984	4.0	S
	76N 28W	1987	<0.5	S
	76N 39W	1998	3.0	C
	76N 40W	1999	<0.5	C
	76N 42W	2001	4.0	S
	76N 55W	2014	1.0	S+ fine gravel
Line	80N 7E	1877	<0.5	S

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	Parameter	Sample Number	U (ppm)	Soil type
Line	80N 8E	1876	<0.5	S + fine gravel
	80N 10E	1874	2.5	S
	80N 11E	1873	<0.5	S
	80N 13E	1871	2.5	S
	80N 14E	1870	<0.5	S
	80N 16E	1868	<0.5	S
	80N 17E	1867	1.0	C+S
	80N 19E	1865	1.0	C
	80N 20E	1864	<0.5	C+S
	80N 4W	1888	1.5	S
	80N 5W	1889	1.0	S
	80N 25W	1909	<0.5	S
	80N 26W	1910	<0.5	S
	80N 28W	1912	<0.5	S
	80N 29W	1913	<0.5	S
	80N 35W	3622	<0.5	S + organic
	80N 36W	3621	<0.5	S
	80N 38W	3619	<0.5	S
	80N 47W	1927	<0.5	S + fine gravel
Line	84N 0	1820	2.5	S
	84N 2W	1822	<0.5	S
	84N 3W	1823	<0.5	S
	84N 5W	1825	<0.5	S
	84N 30W	1849	<0.5	S
	84N 38W	1850	<0.5	S
	84N 50W	1862	<0.5	S
	84N 1E	1819	<0.5	S
	84N 3E	1817	<0.5	S
	84N 13E	1807	<0.5	S
	84N 15E	1805	<0.5	S
Line	8S B.L.O.	3510	<0.5	C
	8S 2E	3508	<0.5	C
	8S 3E	3507	<0.5	C
	8S 5E	3505	<0.5	C
	8S 6E	3504	<0.5	C
	8S 8E	3502	30.0	C + organic
	8S 9E	3501	4.0	C + organic
	8S 11E	3499	<0.5	S
	8S 12E	3498	3.5	S
	8S 1W	3511	2.5	C + organic

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	Parameter	Sample Number	U (ppm)	Soil type
Line	8S 3W	3513	2.5	C
	8S 4W	3514	<0.5	C
	8S 6W	3516	14.5	C
	8S 7W	3517	<0.5	C
	8S 9W	3519	4.0	C
	8S 10W	3520	<0.5	C
	8S 12W	3522	0.5	C
	8S 13W	3523	1.0	C
	8S 15W	3525	<0.5	C
	8S 16W	3526	13.0	S
Line	86N B.L.O.	2018	<0.5	C + organic
	86N 3W	2106	<0.5	organic
	86N 4W	2107	0.5	S
Line	88N 1W	1749	<0.5	S
	88N 2W	1750	<0.5	C
	88N 4W	1752	6.5	C
	88N 5W	1753	<0.5	C
	88N 27W	1774	<0.5	S + organic
	88N 28W	3624	<0.5	S
	88N 29W	3625	<0.5	S
	88N 31W	3627	<0.5	S
	88N 32W	3628	<0.5	S
	88N 50W	1791	<0.5 ✓	S
	88N 2E	1746	<0.5	S
	88N 3E	1745	<0.5	S
?	88N 15E 16E	1732	<0.5	S
?	88N 18E 17E	1731	<0.5	S
?	88N 20E 19E	1729	<0.5	S + fine gravel, in swamp
	88N 28E	1728	1.0	C
	88N 30E	1726	<0.5	C
	88N 31E	1725	<0.5	C
	88N 33E	1723	<0.5	C
	88N 34E	1722	3.5	C
	88N 37E	1719	<0.5	S
	88N 40E	1716	<0.5	C
Line	90N B.L.O.	2548	<0.5	S + fine gravel
	90N 2E	2550	1.0	C + organic
	90N 1W	2547	1.0	organic
	90N 3W	2545	<0.5	C
	90N 4W	2544	1.0	C

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Parameter	Sample Number	U (ppm)	Soil type
Line 92N 1E	1683	1.0	S
92N 15E	1695	2.5	S
92N 17E	1697	2.5	S + fine gravel
92N 18E	1698	<0.5	S
92N 26E	1700	5.0	S + organic
92N 27E	1701	20.0	S + organic
92N 32E	1706	4.0	C
92N 33E	1707	1.0	S
92N 35E	1709	<0.5	S
92N 36E	1710	<0.5	S
92N 38E	1712	0.5	C+S
92N 39E	1713	<0.5	C+S
92N 0	1682	<0.5	S
92N 2W	1680	<0.5	S
92N 3W	1679	1.0	S
92N 11W	1671	4.0	S
92N 18W	1664	<0.5	S
92N 20W	1662	<0.5	S
92N 27W	1655	<0.5	S + organic
92N 30W	1653	1.0	S + organic
92N 34W	1649	<0.5	S
92N 36W	1647	<0.5	S
92N 37W	1646	<0.5	S
92N 39W	1644	<0.5	S
92N 46W	1638	<0.5	S+organic
Line 12S 1E	3542	<0.5	C
12S 2E	3541	<0.5	C
12S 4E	3539	<0.5	C
12S 5E	3538	<0.5	C
12S 7E	3536	35.0	organic
12S 8E	3535	<0.5	organic
12S 10E	3533	<0.5	C + organic
12S 11E	3532	<0.5	C
12S 13E	3530	<0.5	C
12S 14E	3529	<0.5	C
12S 1W	3544	<0.5	C
12S 2W	3545	1.0	C
12S 4W	3547	<0.5	C
12S 5W	3548	1.0	C
12S 7W	3550	<0.5	C

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Parameter	Sample Number	U (ppm)	Soil type
Line 12S 8W	3551	<0.5	C
12S 10W	3553	2.5	C
12S 11W	3554	<0.5	C
12S 13W	3556	50.0	C + organic
12S 14W	3557	4.0	S
12S 16W	3559	6.0	S + fine gravel
12S 17W	3560	2.5	C
Line 16S 16W	3606	<0.5	S
16S 17W	3607	1.0	S
BLO 0+00	3447	<0.5	S
0+00 1E	3446	1.0	S
0+00 3E	3444	<0.5	C+S
0+00 4E	3443	<0.5	C+S
0+00 6E	3441	0.5	S
0+00N 7E	3440	2.5	C+S
0+00 2W	3449	4.0	S
32N 1E A	3041	3.0	S
32N 3E A	3039	2.5	S
32N 4E A	3038	1.0	S
32N 6E A	3036	<0.5	S
32N 7E A	3035	5.0	S
32N 9E A	3033	1.0	S
32N 10E A	3032	<0.5	S
32N 4E B	3074	2.5	C+S
32N 6E B	3072	1.0	C+S
32N 7E B	3071	0.5	S
32N 24E B	3054	4.5	S
32N 25E B	3053	2.5	S
32N 27E B	3051	<0.5	S
32N 28E B	3050	<0.5	S
32N 30E B	3048	3.0	S
32N 31E B	3047	8.0	S
32N 33E B	3045	1.5	S
32N 34E B	3044	2.5	S
32N 36E B	3042	10.5	S
A-1		5.0	
A-2		2.5	
A-3		10.5	
A-4		<0.5	
A-5		2.5	

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Parameter	U (ppm)
A-6	<0.5
A-7	1.0
A-10	<0.5
11	<0.5
12	<0.5
13	14.5
14	<0.5
15	2.5
16	<0.5
17	<0.5
18	<0.5
19	<0.5
A-20	<0.5
21	<0.5
22	<0.5
23	<0.5
24	<0.5
25	<0.5
26	17.5
27	<0.5
28	<0.5
29	<0.5
A-30	<0.5
31	<0.5
32	<0.5
34	<0.5
35	<0.5
36	<0.5
37	1.0
38	0.5
39	<0.5
A-40	4.5
A-41	4.0
A-42	1.0
B-1	9.5
B-2	>100.0
B-3	24.0
B-4	20.0
B-5	8.5
B-6	0.5

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Parameter	U (ppm)
B-7	5.0
B-8	1.5
B-9	2.0
B-10	16.0
11	1.0
12	10.0
13	<0.5
14	<0.5
15	9.0
16	1.0
17	16.0
18	1.0
19	7.0
B-20	8.0
21	21.5
22	0.5
23	3.0
24	3.0
25	6.5
26	<0.5
27	2.0
28	13.5
29	8.0
B-30	2.0
31	<0.5
32	10.0
33	<0.5
34	<0.5
35	<0.5
36	<0.5
37	2.0
B-40	<0.5
41	<0.5
42	<0.5
43	<0.5
44	2.0
45	<0.5
46	<0.5
47	<0.5
B-48	<0.5

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Wollex Exploration

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Parameter	U (ppm)
B-49	50.0
B-50	>100.0
51	<0.5
52	<0.5
53	<0.5
54	0.5
55	<0.5
56	<0.5
57	<0.5
58	1.0
59	<0.5
B-60	<0.5
61	<0.5
62	<0.5
63	<0.5
64	2.5
65	6.5
66	7.0
67	9.5
68	<0.5
69	<0.5
B-70	<0.5
71	<0.5
72	<0.5
73	<0.5
74	9.5
75	6.5
76	5.0
77	1.5
78	<0.5
79	<0.5
B-80	<0.5
81	<0.5
82	<0.5
83	3.5
84	<0.5
85	<0.5
86	<0.5
87	8.0
B-88	<0.5

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Parameter	U (ppm)
B-89	<0.5
B-90	<0.5
91	<0.5
92	<0.5
93	<0.5
94	<0.5
95	5.5
96	6.5
97	5.0
98	10.5
99	7.5
B-100	<0.5
101	<0.5
102	<0.5
103	<0.5
104	<0.5
105	<0.5
106	<0.5
107	6.5
108	18.5
109	<0.5
B-110	<0.5
B-111	<0.5
B-112	<0.5
B-113	<0.5
B-114	<0.5
40N 6E (ALSO NUMBERED B-34)	1.0

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To: WOLLEX EXPLORATIONS LTD.,
806 Norcen Tower,
715 - 5th Ave. S.W.,
Calgary, Alberta

ATTN: Murray Pyke

File No. 11890
Date August 24, 1976
Samples Soil Geochems

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LORING LABORATORIES LTD.

SAMPLE No.		PPM U308
"Soil Geochems"		
J-1715	s	1.2
J-1718	c	0.5
J-1721	s	0.7
J-1724	c	2.3
J-1727	c	1.2
J-1730	s	1.5
J-1733	s	0.5
J-1736	s	0.3
J-1739	s	0.3
J-1742	s	1.2
J-1745	s	0.5
J-1748	s	3.2
J-1751	s	2.2
J-1754	s	0.5
J-1757	s	0.7
J-1760	s	0.5
J-1763	s	0.8
J-1766	s	0.2
J-1769	c	0.5
J-1772	c	0.5
J-1775	s	0.7
J-1778	s	0.7
J-1781	s	0.7
J-1784	s	0.8
J-1787	s	1.2
J-1790	s	1.0
J-3031	s t fine gravel	1.7
J-3034	s	1.5
J-3037	s	7.7

Line 88N ↓

Line 32N ↓

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

[redacted]

Licensed Assayer of British Columbia

To: WOLLEX EXPLORATIONS LTD.,
806 Norcen Tower,
[redacted]15 - 5th Ave. S.W.,
Calgary, Alberta

ATTN: Murray Pyke

File No. 11890
Date August 24, 1976
Samples Soil Geochems

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.		PPM U308
J-3040	S	1.0
J-3043	S	1.0
J-3046	S	2.3
J-3049	S	0.8
J-3052	S	4.3
J-3055	C	1.0
J-3058	S	0.8
J-3061	S	1.0
J-3064	S	1.0
J-3067	S	0.7
J-3070	S	0.6
J-3073	S	0.2
J-3076	S	0.4
J-3079	S	3.4
J-3087	C+S	0.4
J-3092	C	7.2
J-3095	S	3.8
J-3098	C+S	NIL
J-3101	S	NIL
J-3104	S	0.2
J-3107	S	0.4
J-3110	S	0.6
J-3113	S	0.2
J-3116	S	NIL
J-3119	S	0.4
J-3122	S	0.4
J-3125	S	0.4
J-3470	S	0.2
J-3473	S	0.6
J-3476	S	1.8
J-3479	S	4.8

Line 32N ↓

Line 45 ↓

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

[redacted]

Licensed Assayer of British Columbia

To: WOLLEX EXPLORATIONS LTD.,
806 Norcen Tower,
715 - 5th Ave. S.W.,
Calgary, Alberta

ATTN: Murray Pyke

File No. 11890
Date August 24, 1976
Samples Soil Geochems

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.			PPM U3O8
J-3482	S	Line 4S	1.0
J-3485	S		2.0
J-3488	S		1.2
J-3491	S		6.6
J-3494	C+S		0.8
J-3497	S		1.2
J-3500	S	Line 8S	0.6
J-3503	S		1.2
J-3506	S		0.8
J-3509	C		0.6
J-3512	C+fine gravel	Line 8S	6.6
J-3515	C		5.6
J-3518	C		3.8
J-3521	C		1.8
J-3524	C		0.4

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Pulps Retained one month unless specific arrangements made in advance.

[redacted]
Licensed Assayer of British Columbia

To: WOLLEX EXPLORATIONS LTD.,
806 Norcen Tower,
715 - 5th Ave. S.W.,
Calgary, Alberta
ATTN: Murray Pyke

File No. 11898
Date August 25, 1976
Samples Soil Geochems

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.			PPM U3O8
"Soil Geochems"			
J-1636	S	Line 92N	1.3
J-1639	S		0.7
J-1642	S		0.9
J-1645	S		1.6
J-1648	S		1.6
J-1651	S		0.9
J-1654	S + organic		0.9
J-1657	S		0.2
J-1660	S		0.7
J-1663	S		4.2
J-1666	sandy soil		1.1
J-1669	S		0.4
J-1672	S		0.4
J-1675	S		0.2
J-1678	S		0.4
J-1681	S		1.1
J-1684	S		0.4
J-1687	S		0.4
J-1690	S + fine gravel		0.2
J-1693	S		0.7
J-1696	S		3.1
J-1699	S		10.2
J-1702	S		1.3
J-1705	C		0.7
J-1708	S		1.6
J-1711	S		1.6
J-1714	S + fine gravel		0.7
J-1800	S	Line 84N - 20+00E	1.1
J-1803	S	" - 17+00E	0.9

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[redacted]

Licensed Assayer of British Columbia

To: WOLLEX EXPLORATIONS LTD.,
806 Norcen Tower,
715 - 5th Ave. S.W.,
Calgary, Alberta

ATTN: Murray Pyke

File No. 11898
Date August 25, 1976
Samples Soil Geochems

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.			PPM U3O8
J-1806	s	Line 84 N	1.3
J-1809	s		0.9
J-1812	s		0.9
J-1815	s		0.9
J-1818	s		0.7
J-1821	s		1.6
J-1824	s		1.1
J-1827	s		1.3
J-1830	s		0.9
J-1833	s		0.9
J-1836	s		0.9
J-1839	s		0.8
J-1842	s		0.6
J-1845	s		0.8
J-1848	s		0.8
J-1851	s		0.8
J-1854	s		0.6
J-1857	s		0.5
J-1860	s		0.9
J-2019	s r organic	Line 64 N	1.1
J-2022	"		0.6
J-2025	c r s		0.8
J-2028	s		0.5
J-2031	s		0.3
J-2034	c		0.6
J-2037	s r fine gravel		0.5
J-2040	s		0.5
J-2043	s		0.8
J-2046	s		0.5
J-2049	s		1.2
J-2052	s		0.6

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[redacted]
Licensed Assayer of British Columbia

To: WOLLEX EXPLORATIONS LTD.,
806 Norcen Tower,
715-5th Ave. S.W.,
CALGARY, Alta.
ATTN: Murray Pyke

File No. 11899
Date August 26, 1976
Samples Soil Geochems

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.			PPM U308
J-1863	s+organic	Line 80N	1.8
J-1866	S		0.8
J-1869	S		2.2
J-1872	S		1.2
J-1875	S		1.8
J-1878	S		0.8
J-1881	S		0.2
J-1884	S		0.6
J-1887	S		0.6
J-1890	S		0.6
J-1893	S		0.8
J-1896	S		0.6
J-1899	S		1.0
J-1902	S		0.8
J-1905	S		0.6
J-1908	S		1.2
J-1911	S		2.0
J-1914	S		0.2
J-1917	c+organic		0.8
J-1920	S		0.6
J-1923	S		0.2
J-1926	s+fine gravel		1.0
J-1933	S	Line 76N	1.2
J-1936	S		0.6
J-1939	S		1.2
J-1942	S		0.6
J-1945	S		1.2
J-1948	S		5.2
J-1951	S		0.6
J-1954	S		0.6
J-1957	S		0.8

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[redacted]
Licensed Assayer of British Columbia

To: WOLLEX EXPLORATIONS LTD.,
806 Norcen Tower,
715-5th Ave. S.W.,
Calgary, Alta.

Attn: Murray Pyke

File No. 11899
Date August 26, 1976
Samples Soil Geochems

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.			PPM U308
J-1960	S	Line 76 N	3.6
J-1963	S		0.6
J-1966	S		0.6
J-1969	S		0.8
J-1970	S		1.0
J-1973	S		0.6
J-1976	S		0.6
J-1979	S		0.6
J-1982	S		0.6
J-1985	C + S		0.6
J-1988	S		0.6
J-1991	S		1.4
J-1994	C + S		0.4
J-1997	S		0.8
J-2000	S + fine gravel		1.8
J-2003	"		0.4
J-2006	"		0.8
J-2009	S		0.6
J-2012	S + fine gravel		0.4
J-2015	"		0.4
J-2016	?	Location (?) 76N - 57W	0.6
J-2110	S	Line 68N - 62W	0.4
J-2113	S		0.6
J-2116	S		0.6
J-2119	S		0.2
J-2122	S		0.2
J-2125	S		1.6
J-2128	S		0.2
J-2131	S	Line 68N	0.8
J-2134	S		0.6
J-2137	S		0.8

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[redacted]
Licensed Assayer of British Columbia

To: WOLLEX EXPLORATIONS LTD.,
806 Norcen Tower,
715-5th Ave. S.W.,
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ATTN: Murray Pyke

File No. 11899
Date August 26, 1976
Samples Soil Geochems

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.			PPM U308
J-2140	S	Line 68N	0.6
J-2143	S		0.6
J-2146	S		1.0
J-2149	S		1.0
J-2152	S		1.0
J-2155	S		1.0
J-2158	S		1.0
J-2161	S		0.8
J-2164	S		1.2
J-2167	S		1.0
J-2170	S		0.6
J-2173	S		0.6
J-2176	S		0.4
J-2179	C+S		0.6
J-2182	S		1.0
J-2185	S		0.6
J-2188	S		1.8
J-2191	S		0.8
J-2194	S		0.6
J-2197	C		3.2
J-2201	C+S	Line 64N	0.8
J-2204	S		0.8
J-2206	C+S		0.6
J-2208	C		0.6
J-2211	C		0.8
J-2214	S		1.0
J-2217	S		0.8
J-2222	S+organic		15.8
J-2225	C+S		0.8
J-2228	S		0.2
J-2231	S		0.4

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[redacted]
Licensed Assayer of British Columbia

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806 Norcen Tower,
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Calgary, Alta.
ATTN: Murray Pyke

File No. 11899
Date August 26, 1976
Samples Soil Geochems

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.		PPM U308
J-2234	C	0.8
J-2237	S + fine gravel	0.6
J-2240	S	1.0
J-2243	S	0.6
J-2246	S	0.4
J-2249	S	0.8
J-2252	S	1.2
J-2255	S	0.8
J-2258	S	0.4
J-2261	S	0.8
J-2264	C + S	0.4
J-2267	S	0.4
J-2270	C + S	0.2
J-2275	S	0.2
J-2278	S	0.8
J-2281	S	0.6
J-2284	S	0.8
J-2287	S	0.8
J-2299	C	0.8
J-2302	S	0.2
J-2305	S	0.6
J-3247	organic	84.0
J-3250	S	0.8
J-3253	C	1.0
J-3256	S	0.8
J-3259	C	1.0
J-3262	C	1.2
J-3265	C	1.2
J-3268	C	1.4
J-3271	C	0.6
J-3274	C	0.4

Line 64N

Line 20 N

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

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[redacted]

Licensed Assayer of British Columbia

To: WOLLEX EXPLORATIONS LTD.,
807 Norcen Tower,
715-5th Ave. S.W.,
Calgary, Alta.
ATTN: Murray Pyke

File No. 11899
Date August 26, 1976
Samples Soil Geochems

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.			PPM U308
J-3277	c	Line 20 N	0.6
J-3280	c		0.6
J-3283	c		0.8
J-3439	c	Line 00	0.4
J-3442	c+s		0.8
J-3445	s		1.2
J-3448	s		0.6
J-3451	s		2.2
J-3454	s		1.0
J-3457	s		3.4
J-3460	s		4.4
J-3463	s		0.6
J-3528	organic	Line 125	5.6
J-3531	c		2.4
J-3534	organic		6.0
J-3537	"		95.2
J-3540	s		1.4
J-3543	c		1.4
J-3546	c		2.8
J-3549	c		3.4
J-3552	c		1.8
J-3555	c+s		20.0
J-3558	s		2.8
J-3561	c		0.8

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[redacted]
Licensed Assayer of British Columbia

To: WOLLEX EXPLORATIONS LTD.,
806 Norcen Tower,
[redacted] - 5th Ave. S.W.,
Calgary, Alberta

ATTN: Murray Pyke

File No. 11898
Date August 25, 1976
Samples Soil Geochems

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.			PPM U3O8
J-2055	S	Line 72N	0.5
J-2058	S		4.1
J-2061	S		0.9
J-2064	S		0.8
J-2067	S		0.8
J-2070	S		0.3
J-2073	S		0.3
J-2076	S		0.3
J-2079	C		0.5
J-2082	C		0.5
J-2085	C		NIL
J-2088	S		0.3
J-2091	S		0.3
J-2094	S		0.5
J-2100	S		1.1
J-2103	S + fine gravel		0.5
J-2427	C + organic	Line 56N	11.1
J-2430	C		0.5
J-2433	C + organic		16.6
J-2436	C		0.8
J-2439	C		4.8
J-2442	C		0.2
J-2445	C + organic		2.0
J-2448	C		7.2
J-2451	C		0.8
J-2454	S		0.2
J-2457	S		0.4
J-2460	S		0.4
J-2463	S		1.8
J-2466	S		NIL
J-2469	S		0.2

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Licensed Assayer of British Columbia

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806 Norcen Tower,
715 - 5th Ave. S.W.,
Calgary, Alberta

ATTN: Murray Pyke

File No. 11898
Date August 25, 1976
Samples Soil Geochems

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.		PPM U3O8
J-2472	S	0.6
J-2475	S	1.4
J-2478	S	0.6
J-2481	S	1.2
J-2484	S	NIL
J-2487	S	11.2
J-2490	C	0.2
J-2494	C + organic	45.0
J-2498	"	63.4
J-2501	"	12.2
J-2504	"	36.0
J-2507	"	42.0
J-2511	"	1.2
J-2514	"	1.8
J-2517	S + fine gravel	2.6
J-2520	S	1.4
J-2523	S	1.4
J-2526	S	1.0
J-2529	S	0.8
J-2532	S	0.6
J-2535	S	0.6
J-2538	S	1.0
J-2541	S	0.6

Line 56 N

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

[redacted]

Licensed Assayer of British Columbia

To: WOLLEX EXPLORATIONS LTD.,
806 Norcen Tower,
[redacted] - 5th Ave. S.W.,
Calgary, Alberta

ATTN: Murray Pyke

File No. 11879
Date August 19, 1976
Samples Soil Geochems

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.			PPM U3O8
"Soil Geochems"			
J-2958	S	Line 36 N	0.4
J-2960	S		0.6
J-2963	S		0.6
J-2966	S		0.2
J-2969	S		0.6
J-2972	S		0.2
J-2975	C + organic		32.8
J-2978	S		0.2
J-2981	C + organic		72.6
J-2984	"		0.6
J-2987	C		1.0
J-2990	S		0.6
J-2993	S		1.0
J-2996	S		1.2
J-2999	S		1.2
J-3002	S + fine gravel		1.4
J-3005	"		0.6
J-3008	S		0.8
J-3011	S		1.0
J-3014	S		0.6
J-3017	S		NIL
J-3020	S + fine gravel		1.2
J-3023	S		NIL
J-3026	S		0.2
J-3029	S		106.
J-3369	C + organic	Line 8 N	0.2
J-3372	C		NIL
J-3375	C		1.2
J-3378	C		NIL

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[redacted]

Licensed Assayer of British Columbia

To: WOLLEX EXPLORATIONS LTD.,
806 Norcen Tower,
715 - 5th Ave. S.W.,
Calgary, Alberta

ATTN: Murray Pyke

File No. 11879
Date August 19, 1976
Samples Soil Geochems

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.		PPM U3O8
J-3381	S	NIL
J-3384	S	0.2
J-3387	C	0.4
J-3390	C	3.8
J-3393	C	1.2
J-3396	S	0.4
J-3399	S	0.6
J-3402	S	NIL
J-3405	S	NIL

Line 8N

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

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[redacted]

Licensed Assayer of British Columbia

To: WOLLEX EXPLORATIONS LTD.,
806 Norcen Tower,
715-5th Ave. S.W.,
CALGARY, Alta.

ATTN: Murray Pyke

File No. 11908
Date August 27, 1976
Samples Geochems - Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.			PPM U308
J-1928	S	86+00 N - 7+00 W	0.4
J-1930	S	90+00 N - 8+00 W	0.4
J-2017	C	86+00 N - 1+00 W	1.2
J-2105	C	" - 2+00 W	6.6
J-2108	S	" - 5+00 W	0.8
J-2546	C + organic	90+00 N - 2+00 W	6.4
J-2549	C	" - 1+00 E	3.8
J-2552	S	" - 4+00 E	0.8
J-2554	S	" - 6+00 E	0.4
J-2674	C + S	Line 48 N	0.2
J-2677	C + S		0.6
J-2680	S		1.2
J-2683	S		1.0
J-2686	S		5.2
J-2689	S		0.8
J-2692	S		0.4
J-2695	S		0.4
J-2698	S		0.8
J-2701	S		0.8
J-2704	S		0.8
J-2707	S		1.4
J-2710	S		0.6
J-2713	S		0.4
J-2716	S		0.4
J-2719	S		0.4
J-2722	S		0.4
J-2725	S + fine gravel		0.2
J-2728	S		0.4
J-2731	C + S		Nil
J-2734	C + S		0.2
J-2737	S		0.2

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[redacted]
Licensed Assayer of British Columbia

To: WOLLEX EXPLORATIONS LTD.,
806 Norcen Tower,
715-5th Ave. S.W.,
Calgary, Alta.
ATTN: Murray Pyke

File No. 11908
Date August 27, 1976
Samples Soil Geochems

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.			PPM U308
J-2740	S	Line 48N	Nil
J-2743	S		0.2
J-2746	S		0.2
J-2749	S		Nil
J-2752	S		0.6
J-2755	S		0.2
J-2758	S		0.2
J-2761	S		0.4
J-2764	S		0.4
J-2767	S		0.4
J-2770	S		Nil
J-2773	S		0.8
J-2776	S		0.2
J-2779	S + organics		2.0
J-2781	S	Line 44N	0.2
J-2784	C		0.2
J-2787	C + S		Nil
J-2790	C + organics		1.2
J-2793	"		1.4
J-2796	S + organics		0.2
J-2802	C		0.8
J-2805	C		0.2
J-2808	S		0.4
J-2811	S		0.6
J-2814	S		0.6
J-2817	S		0.4
J-2820	S		0.6
J-2823	C + S		0.4
J-2827	S		Nil
J-2830	S		Nil
J-2834	C		0.2

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

[redacted]
Licensed Assayer of British Columbia

To: WOLLEX EXPLORATIONS LTD.,
806 Norcen Tower,
715-5th Ave. S.W.,
Calgary, Alta.
ATTN: Murray Pyke

File No. 11908
Date August 27, 1976
Samples Soil Geochems

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.			PPM U308
J-2837	C	L 44 N	Nil
J-2840	C		0.6
J-2842	C		Nil
J-2846	S		Nil
J-2849	C		0.2
J-2852	S		Nil
J-2855	S		0.2
J-2858	S		0.4
J-2864	S		Nil
J-2874	S	90+00 N 8+00 E	Nil
J-2877	S	" 11+00 E	0.2
J-2881	S + gravel	L 40 N	0.2
J-2884	"		0.6
J-2887	C		0.4
J-2890	C		Nil
J-2891	S + fine gravel		3.4
J-2894	C		0.4
J-2897	S + fine gravel		0.6
J-2900	C		0.4
J-2903	S		0.6
J-2906	C		0.4
J-2909	organic		77.6
J-2912	C		0.6
J-2915	C		0.6
J-2918	S		0.6
J-2921	C		0.2
J-2924	S		0.6
J-2927	S		0.8
J-2930	C + S		0.6
J-2932	S		0.6
J-2936	S		0.4
J-2939	S		0.6

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[redacted]
Licensed Assayer of British Columbia

To: WOLLEX EXPLORATIONS LTD.,
806 Norcen Tower,
715-5th Ave. S.W.,
Calgary, Alta.
ATTN: Murray Pyke

File No. 11908
Date August 27, 1976
Samples Soil Geochems

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.			PPM U308
J-2942	S	L 40 N	0.8
J-2946	C + fine gravel		1.0
J-2948	C		1.0
J-2951	C		0.6
J-2954	S		0.8
J-2957	S		1.4
K-3131	organic	L 28 N	36.4
J-3134	C		1.0
J-3137	C		2.6
J-3140	C		1.4
J-3143	C + fine gravel		0.4
J-3146	S		0.2
J-3149	S		0.4
J-3152	S		0.6
J-3155	S		0.4
J-3158	S		0.4
J-3161	C		0.4
J-3164	S + fine gravel		0.4
J-3167	C		0.4
J-3170	C + S		0.4
J-3173	C + S		0.2
J-3176	C		1.0
J-3179	C		0.8
J-3329	C + organic	Line 12 N	556.0
J-3332	"		117.0
J-3335	C + S		0.8
J-3338	S		Nil
J-3341	S		Nil
J-3344	S		Nil
J-3347	C + organic		244.0
J-3353	C + S		2.0

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File No. 11908
Date August 27, 1976
Samples Soil Geochems

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.			PPM U308
J-3356	C	Line 12N	0.4
J-3359	C	↓	0.4
J-3362	S		0.8
J-3365	S		0.4
J-3368	C		Nil
J-3605	S	Line 16S	Nil
J-3608	S	↓	Nil
J-3611	C+Organic	Line 64N	Nil
J-3614	"	↓	0.4
J-3617	"		13.8
J-3620	S	Line 80N	0.4
J-3623	Organic	↓	2.0
J-3626	S	Line 88N	0.4
J-3629	S	↓	0.4

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[redacted]
Licensed Assayer of British Columbia

To: WOLLEX EXPLORATIONS LTD.,
806 Norcen Tower,
[redacted] - 5th Ave. S.W.,
Calgary, Alberta

ATTN: Murray Pyke

File No. 11877
Date August 19, 1976
Samples Soil Geochems

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.			PPM U3O8
"Soil Geochems"			
J-1590	S	Line 96 N	NIL
J-1591	S		NIL
J-1592	S		NIL
J-1593	S		NIL
J-1594	S		NIL
J-1595	S		2.4
J-1596	C + S		NIL
J-1597	S		NIL
J-1598	S		NIL
J-1599 (9W)	B	S	NIL
J-1599 (10W)	A	S	0.6
J-1600	S		0.4
J-1601	S		NIL
J-1602	S		NIL
J-1603	S		NIL
J-1604	S		NIL
J-1605	S		NIL
J-1606	S		NIL
J-1607	S		NIL
J-1608	S		0.4
J-1609	S		NIL
J-1610	S		NIL
J-1611	S		0.2
J-1612	S		0.6
J-1613	S		0.2
J-1614	S		NIL
J-1615	S + organic		1.0
J-1616	organic		0.6
J-1617	S + fine gravel		0.8

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Licensed Assayer of British Columbia

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File No. 11877
Date August 19, 1976
Samples Soil Geochems

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.		PPM U3O8
J-1618	S + fine gravel — Line 96N	1.8
J-1619	S + organic	NIL
J-1620	S	NIL
J-1621	S	NIL
J-1622	S	1.0
J-1623	S	NIL
J-1624	S	0.2
J-1625	S	0.6
J-1626	S	0.2
J-1627	S	0.2
J-1628	S	1.0
J-1629	S	0.8
J-1630	S	1.0
J-1631	S	1.0
J-1632	S + organic	1.4
J-1633	S + fine gravel	1.4
J-1634	S	1.0
J-1636	S — Line 92N 48+00W	5.0
J-1792	S — Line 86N	1.0
J-1793	S	1.0
J-1794	S	1.6
J-1795	S	1.4
J-1796	S	0.6
J-1797	S	0.6
J-1798	S	84.4
J-1799	C + organic	3.6
J-2308	S — Line 60N	0.8
J-2309	S	0.8
J-2310	S	0.6
J-2311	C + S	0.6
J-2312	S	0.6

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Licensed Assayer of British Columbia

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File No. 11877
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Samples Soil Geochems

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.		PPM U3O8
J-2313	s	0.8
J-2314	s	1.2
J-2315	s	0.8
J-2316	c + organic	0.4
J-2317	c + s	0.6
J-2318	s	6.6
J-2319	s + organic	1.0
J-2320	s + fine gravel	3.4
J-2321	s	1.0
J-2322	s + fine gravel	1.8
J-2323	s + organic	1.8
J-2324	s	1.0
J-2325	s	5.0
J-2326	s + fine gravel	13.4
J-2327	"	3.4
J-2329	"	10.8
J-2330	"	3.8
J-2331	s	16.2
J-2332	s	0.6
J-2333	c + fine gravel	114.0
J-2334	c	9.6
J-2335	s	1.4
J-2336	s	0.6
J-2337	s	0.4
J-2338	s	3.0
J-2339	s	2.6
J-2340	s + fine gravel	0.8
J-2341	"	0.4
J-2342	s	0.4
J-2343	s + fine gravel	0.4
J-2344	s	0.2

Line 60 N

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Pulps Retained one month unless specific arrangements made in advance.

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Licensed Assayer of British Columbia

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715 - 5th Ave. S.W.,
Calgary, Alberta

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File No. 11877
Date August 19, 1976
Samples Soil Geochems

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.			PPM U3O8
J-2345	S	Line 60N	NIL
J-2346	S		0.2
J-2347	S		0.8
J-2348	S		0.2
J-2349	S		0.4
J-2350	S		0.2
J-2351	S		0.6
J-2352	S		NIL
J-2353	S		0.2
J-2354	S		0.6
J-2355	S		0.6
J-2356	S		0.8
J-2357	S + fine gravel		0.2
J-2358	S		0.2
J-2359	S		0.2
J-2360	S		0.4
J-2361	S		NIL
J-2362	S		0.4
J-2363	S		NIL
J-2364	S		0.2
J-2365	S		0.4
J-2366	S		0.2
J-2367	S		0.4
J-2368	S		NIL
J-2369	S		NIL
J-2370	S		0.6
J-2371	S		1.0
J-2372	C + S		0.6
J-2373	S		1.0
J-2374	S		0.8
J-2375	S		1.0

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File No. 11877
Date August 19, 1976
Samples Soil Geochems

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.		PPM U3O8
J-2376	S	0.6
J-2377	s + organic	0.4
J-2378	c + s	0.8
J-2379	S	0.4
J-2380	s + fine gravel	4.2
J-2381	"	0.8
J-2382	s + organic	0.8
J-2384	s + fine gravel	2.4
J-2385	"	0.4
J-2386	S	0.6
J-2387	S	1.4
J-2388	S	0.6
J-2389	S	0.8
J-2390	S	0.6
J-2391	S	0.6
J-2392	S	1.0
J-2393	s + fine gravel	1.0
J-2394	S	1.4
J-2395	s + fine gravel	0.8
J-2396	S	0.8
J-2397	S	0.4
J-2398	S	0.6
J-2399	s + fine gravel	0.6
J-2400	organic	56.8
J-2401	s + organic	47.4
J-2403	s + fine gravel	13.1
J-2404	s + organic	13.6
J-2405	s + fine gravel	1.8
J-2406	"	1.4
J-2407	S	0.8
J-2408	s + fine gravel	1.6

Line 60N

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Pulps Retained one month unless specific arrangements made in advance.

[redacted]

Licensed Assayer of British Columbia

To: WOLLEX EXPLORATIONS LTD.,
806 Norcen Tower,
715 - 5th Ave. S.W.,
Calgary, Alberta

ATTN: Murray Pyke

File No. 11877
Date August 19, 1976
Samples Soil Geochems

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.			PPM U3O8
J-2409	s+ fine	gravel Line 60 N	0.6
J-2410	s		1.0
J-2411	s		1.0
J-2412	s		0.8
J-2413	s		0.6
J-2414	s+ fine	gravel	0.8
J-2415	s		0.6
J-2416	s		0.8
J-2417	s		0.6
J-2418	s		0.6
J-2419	s		1.0
J-2420	s		1.6
J-2421	s		1.8
J-2422	s		0.8
J-2423	s		1.4
J-2424	s+ fine	gravel	0.8

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[redacted]

Licensed Assayer of British Columbia

To: WOLLEX EXPLORATIONS LTD.,
806 Norcen Tower,
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Calgary, Alberta

ATTN: Murray Pyke

File No. 11875
Date August 19, 1976
Samples Soil Geochems

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.			PPM U3O8
J-2649	organic	Line 52N	0.2
J-2650	s		0.6
J-2651	s+fine gravel		0.4
J-2652	"		0.8
J-2653	"		0.6
J-2654	"		1.4
J-2655	"		0.8
J-2656	"		0.8
J-2657	"		0.8
J-2658	"		1.0
J-2659	s		0.6
J-2660	s+fine gravel		1.0
J-2661	s		0.6
J-2662	s		0.6
J-2663	s		1.0
J-2664	s		0.6
J-2665	s		0.6
J-2666	s		0.8
J-2667	s		0.8
J-2668	s		0.8
J-2669	s		1.0
J-2670	s		1.2
J-2671	s		0.6
J-2672	s		0.6
J-3562	c+organic	Line 16S	66.0
J-3563	"		74.4
J-3564	"		151.0
J-3565	"		84.6
J-3566	c+fine gravel		7.3
J-3567	s		18.1
J-3568	c		5.1

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Licensed Assayer of British Columbia

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806 Norcen Tower,
715 - 5th Ave. S.W.,
Calgary, Alberta

ATTN: Murray Pyke

File No. 11875
Date August 19, 1976
Samples Soil Geochems

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.			PPM U3O8
J-3569	c + s	Line 16 S	2.6
J-3570	s		2.0
J-3571	s		2.0
J-3572	s		2.2
J-3573	c		1.2
J-3574	s		1.2
J-3575	s		2.4
J-3576	s		0.6
J-3577	s		0.6
J-3578	c + organic		14.2
J-3580	organic		7.2
J-3582	c + organic		20.4
J-3583	c		1.6
J-3584	c		0.4
J-3585	c		8.2
J-3586	c		3.2
J-3587	c		2.0
J-3588	c		1.4
J-3590	c		1.8
J-3591	c		6.6
J-3592	c		1.6
J-3593	c		1.4
J-3594	c		2.0
J-3595	c		5.0
J-3596	s		23.6
J-3597	c		1.8
J-3598	c		10.8
J-3599	c		4.2
J-3600	c + fine gravel		15.4
J-3601	c		2.2
J-3602	c		2.8

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Licensed Assayer of British Columbia

To: WOLLEX EXPLORATIONS LTD.,
806 Norcen Tower,
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ATTN: Murray Pyke

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Date August 19, 1976
Samples Soil Geochems

Certificate of ASSAY

LORING LABORATORIES LTD.

Page # 6

SAMPLE No.	PPM U3O8
J-3603 c	1.2
J-3604 c	2.0

Line 165 ↓

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

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[redacted]

Licensed Assayer of British Columbia

SEP - 1 1976

To: WOLLEX EXPLORATIONS LTD.,
806 Norcen Tower,
715 - 5th Ave. S.W.,
Calgary, Alberta T2P 0X8
ATTN: Murray Pyke

File No. 11875
Date August 19, 1976
Samples Soil Geochems

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.		PPM U3O8
"Soil Geochems"		
J-2556	organic	6.6
J-2557	"	0.2
J-2558	"	0.2
J-2559	"	14.8
J-2560	S	0.8
J-2561	c + organic	0.6
J-2562	C	0.6
J-2563	C	0.6
J-2564	S + organic	0.8
J-2565	S + fine gravel	0.8
J-2566	C + organic	0.4
J-2567	S + fine gravel	0.4
J-2568	C	0.6
J-2569	S + organic	0.6
J-2570	C	41.0
J-2571	S + fine gravel	4.0
J-2572	C + organic	1.0
J-2573	C + fine gravel	0.6
J-2574	S + organic	8.0
J-2575	C + fine gravel	0.2
J-2576	S	1.6
J-2577	C	0.6
J-2578	S + organic	1.2
J-2579	C + fine gravel	1.2
J-2580	C	0.6
J-2581	C	0.6
J-2582	S	0.8
J-2583	S	0.6
J-2584	S + fine gravel	0.8

Line 52N

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

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Licensed Assayer of British Columbia

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806 Norcen Tower,
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Calgary, Alberta T2P 0X8
ATTN: Murray Pyke

File No. 11875
Date August 19, 1976
Samples Soil Geochems

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.			PPM U3O8
J-2585	S	Line 52N	0.6
J-2586	S		0.6
J-2587	S		1.2
J-2588	S		1.4
J-2589	C+S		0.6
J-2590	S		0.6
J-2591	S + fine gravel		0.4
J-2592	S		0.4
J-2593	S		2.0
J-2594	S		0.6
J-2595	S		0.6
J-2596	S		NIL
J-2597	S		NIL
J-2598	S		NIL
J-2599	S		NIL
J-2600	S + fine gravel		0.2
J-2601	S		0.2
J-2602	S		0.2
J-2603	C		NIL
J-2604	S		NIL
J-2605	S		0.2
J-2606	S		0.4
J-2607	S		0.2
J-2608	S		NIL
J-2610	S		0.2
J-2611	C+S		0.2
J-2612	S		0.4
J-2613	S		NIL
J-2614	S		NIL
J-2615	S		0.6
J-2616	S		0.2

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Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.			PPM U3O8
J-2617	S	Line 52N	NIL
J-2618	S + fine	gravel	0.8
J-2620	C		NIL
J-2621	C		0.2
J-2622	S		0.2
J-2623	C		NIL
J-2624	C		0.2
J-2625	C		0.2
J-2626	C		0.6
J-2627	C + S		0.2
J-2628	S		1.0
J-2629	S		0.8
J-2630	S + fine	gravel	1.0
J-2631	S		0.2
J-2632	S		0.2
J-2633	C		0.2
J-2634	S		0.8
J-2635	S		2.2
J-2636	S		0.6
J-2637	S		0.8
J-2638	S		0.8
J-2639	S + fine	gravel	0.8
J-2640	S		0.6
J-2641	S + fine	gravel	0.6
J-2642	"		0.8
J-2643	"		0.4
J-2644	"		0.8
J-2645	S		1.2
J-2646	S		0.6
J-2647	S		0.8
J-2648	organic		0.2

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

[redacted]

Licensed Assayer of British Columbia

To: WOLLEX EXPLORATIONS LTD.,
806 Norcen Tower,
715 - 5th Ave. S.W.,
Calgary, Alberta

ATTN: Murray Pyke

File No. 11869
Date August 18, 1976
Samples Soil Geochems

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.		PPM U3O8
"Soil Geochems"		
J-3181	sr fine gravel Line 24 N	0.2
J-3182	c	0.6
J-3183	c	0.8
J-3184	c + s	0.6
J-3185	c + fine gravel	1.4
J-3186	c	0.2
J-3187	c	NIL
J-3188	c + organic	11.4
J-3189	c	30.0
J-3190	c	0.2
J-3191	c + fine gravel	NIL
J-3192	c	NIL
J-3193	c	NIL
J-3194	c	NIL
J-3195	c	NIL
J-3196	c	NIL
J-3197	s	NIL
J-3198	c	NIL
J-3199	c + fine gravel	NIL
J-3200	c	NIL
J-3201	c	0.2
J-3202	c	0.2
J-3203	s + fine gravel	0.2
J-3204	s	NIL
J-3205	c	NIL
J-3206	s	NIL
J-3207	s	NIL
J-3208	c + s	NIL
J-3209	s	NIL

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

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Pulps Retained one month unless specific arrangements made in advance.

[redacted]

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Calgary, Alberta

ATTN: Murray Pyke

File No. 11869
Date August 18, 1976
Samples Soil Geochems

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.		PPM U3O8
J-3210	s + fine gravel	1.4
J-3211	s	NIL
J-3212	c	NIL
J-3213	c	NIL
J-3214	c + fine gravel	NIL
J-3215	s	NIL
J-3216	s + fine gravel	NIL
J-3217	c + fine gravel	NIL
J-3218	s + fine gravel	NIL
J-3219	c	NIL
J-3220	organic	73.4
J-3222	"	2.0
J-3223	"	1.4
J-3224	"	0.8
J-3225	"	18.2
J-3226	"	16.2
J-3227	"	21.8
J-3228	"	62.7
J-3229	s + organic	3.2
J-3230	c + organic	0.8
J-3231	c + s	1.4
J-3232	c	1.2
J-3233	c + organic	1.6
J-3234	s + fine gravel	0.8
J-3235	c + fine gravel	0.8
J-3236	c	1.4
J-3237	c	1.6
J-3238	c + s	0.6
J-3239	c	0.6
J-3240	c	0.6
J-3241	c	0.6

Line 24N

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

[redacted]

Licensed Assayer of British Columbia

To: WOLLEX EXPLORATIONS LTD.,
806 Norcen Tower,
715 - 5th Ave. S.W.,
Calgary, Alberta

ATTN: Murray Pyke

File No. 11869
Date August 18, 1976
Samples Soil Geochems

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.			PPM U3O8
J-3242	C	Line 24N	0.6
J-3243	C		0.2
J-3244	C + fine	gravel	0.2
J-3245	C		0.8
J-3246	C + S		0.6

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

[redacted]

Licensed Assayer of British Columbia

To: WOLLEX EXPLORATIONS LTD.,
806 Norcen Tower,
715 - 5th Ave. S.W.,
Calgary, Alberta T2P 0X8

ATTN: Murray Pyke

File No. 11865
Date August 18, 1976
Samples Soil Geochems

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.			PPM U3O8
"Soil Geochems"			
J 3284 A	organic	Line 16+00N - B.L.	0.8
J 3284 B	organic	Line 16+00N - 1+00W	5.2
J 3285	C	Line 16N	0.6
J 3286	C		0.2
J 3287	C		0.6
J 3288	C + fine gravel		0.6
J 3289	C		0.2
J 3290	C		0.2
J 3291	C+S		0.4
J 3292	C+S		0.4
J 3293	C		0.4
J 3294	C		0.8
J 3295	C		0.8
J 3296	C		0.6
J 3297	C		0.8
J 3298	C		1.6
J 3299	C		0.4
J 3300	C		0.8
J 3301	C+S		0.8
J 3302	C		0.8
J 3303	C + fine gravel		0.8
J 3304	C + organic		0.8
J 3305	S + fine gravel		0.8
J 3306	C+S		0.6
J 3307	C		1.0
J 3308	C+S		0.6
J 3309	S + fine gravel		0.6
J 3310	"		0.4
J 3311	C+S		0.6

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Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

[redacted]

Licensed Assayer of British Columbia

To: WOLLEX EXPLORATIONS LTD.,
806 Norcen Tower,
715 - 5th Ave. S.W.,
Calgary, Alberta T2P 0X8

ATTN: Murray Pyke

File No. 11865
Date August 18, 1976
Samples Soil Geochems

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.			PPM U3O8
J 3312	c+s	Line 16 N	0.8
J 3313	c+ fine gravel		0.4
J 3314	s		0.2
J 3315	s+ organic		5.0
J 3316	c+ fine gravel		0.8
J 3317	c+s		0.6
J 3318	c+s		0.8
J 3319	s+ fine gravel		0.6
J 3320	c+s		0.4
J 3321	c		0.2
J 3322	c		1.0
J 3323	c+s		0.8
J 3324	s+ fine gravel		0.8
J 3325	c+s		0.8
J 3326	s		0.8
J 3327	c+s		0.6
J 3328	s		0.4
J 3407	s	Line 4N	0.2
J 3408	s		0.2
J 3409	s		1.0
J 3410	s		236.0
J 3411	s		1.6 — To do next
J 3412	s		1.6
J 3413	s		1.2
J 3414	s		0.6
J 3415	c		0.6
J 3416	c		0.4
J 3417	c		0.4
J 3418	c		0.6
J 3419	c		2.8
J 3420	s		6.6

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

[redacted]
Licensed Assayer of British Columbia

To: WOLLEX EXPLORATIONS LTD.,
806 Norcen Tower,
715 - 5th Ave. S.W.,
Calgary, Alberta T2P 0X8

ATTN: Murray Pyke

File No. 11865
Date August 18, 1976
Samples Soil Geochems

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.			PPM U3O8
J 3421	C	Line 4N	0.6
J 3422	C		0.2
J 3423	C		1.0
J 3424	C		0.6
J 3425	C		0.8
J 3426	C		0.8
J 3427	C		0.6
J 3428	S		1.6
J 3429	S		0.8
J 3430	S		0.6
J 3431	C		1.4
J 3432	C		4.2
J 3433	C		1.0
J 3434	C		0.4
J 3435	C		0.4
J 3436	C		1.0
J 3437	C + organic		1.2
J 3438	C + organic		23.6

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

[redacted]

Licensed Assayer of British Columbia

NOTE: Basemap compiled from uncontrolled air photo mosaics. Refer to Sheet 4 of 4 for Legend.

TACHYON VENTURE MANAGEMENT LTD.

ANDREW LAKE PROJECT, ALBERTA

AIRBORNE RADIOMETRIC SURVEY

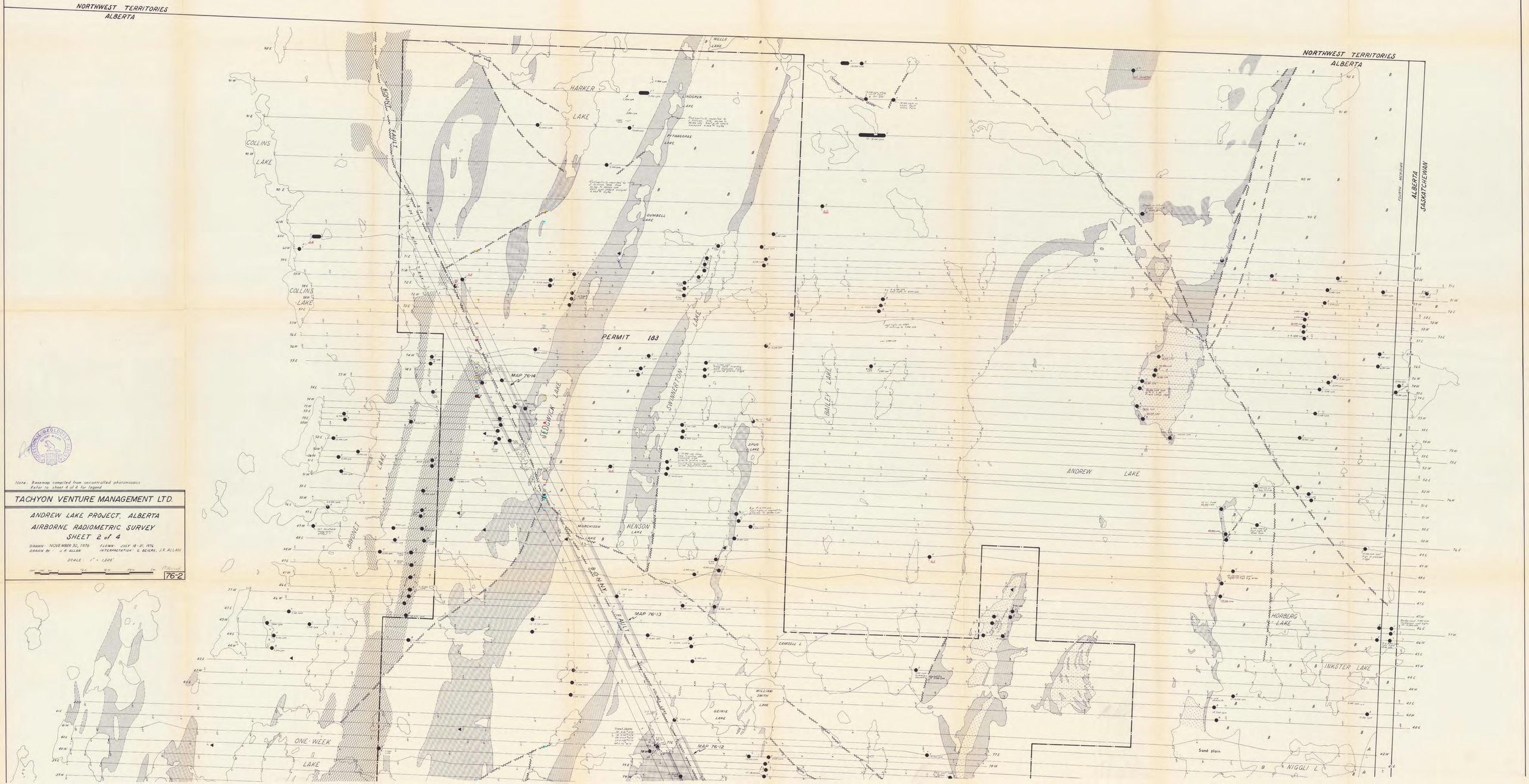
SHEET 1 of 4

DRAWN: NOVEMBER 30, 1976 FLOWN: JULY 18-31, 1976

DRAWN BY: J.R. ALLAN INTERPRETATION: G. REILAS, J.R. ALLAN

SCALE: 1" = 1MP.

76-1



Note: Basemap compiled from uncontrolled photomosaics
Refer to sheet 4 of 4 for legend

TACHYON VENTURE MANAGEMENT LTD.

ANDREW LAKE PROJECT, ALBERTA
AIRBORNE RADIOMETRIC SURVEY
SHEET 2 of 4

DRAWN: NOVEMBER 30, 1976 FLOWN: JULY 18-31, 1976
DRAWN BY: J.R. ALLAN INTERPRETATION: G. BEIKS, J.R. ALLAN

SCALE: 1" = 1,320'

76-2

Alberta Government

Disclaimer

This page was inserted by the Coal and Minerals Development Branch, to provide a reference that the map 3 of 4 associated with this report is not contained in the assessment report on file.

PRECAMBRIAN

A — WAUGH LAKE COMPLEX

Locally comprised of biotite granite gneiss & hornblende biotite gneiss; with minor hornblende granite gneiss, amphibolite & pegmatite. Characterized by its pronounced foliation.

B — WESTERN GRANODIORITE COMPLEX - PORPHYROBLASTIC BIOTITE GRANITE

Feldspar porphyroblastic biotite granite with varying amounts of biotite, hornblende & chlorite; minor amphibolite, pegmatite & aplite. Massive to very weakly foliated.

METASEDIMENTARY BELTS

Meta-quartzite & biotite schist; minor phyllitic, schistose & pegmatitic phases. Also includes minor amphibolite and granite gneiss. Metamorphic grade varies from upper greenschist to almandine-amphibolite.

GRANITE PEGMATITE - LEUCOCRATIC GRANITES

Minor phases of muscovite granite, muscovite pegmatite & biotite granite. Characteristically, these rocks are equigranular, coarse grained and leucocratic. Massive to weakly developed foliation.

GRANITE GNEISS COMPLEX

Locally comprised of biotite granite gneiss & hornblende biotite gneiss; with minor hornblende granite gneiss, amphibolite & pegmatite. Characterized by its pronounced foliation.

ARCH LAKE GRANITE

Leucocratic, coarsely feldspar porphyroblastic granite. Weakly to moderately well foliated.

RAISIN GRANITE

Finely feldspar porphyroblastic granite with a chloritic, moderately to well foliated matrix.

MYLONITE ZONES

FAULTS, SHEAR ZONES, AIR PHOTO LINEAMENTS: UNDIFFERENTIATED

Geology simplified after Godfrey, Research Council of Alberta
(C. F. Bibliography in accompanying report)

SCARP or CLIFF

SWAMP, MUSKEG, SPRUCE SWAMP

GENERALIZED OUTCROP BOUNDARIES

LIMITS OF GEOLOGIC INTERPRETATION

68-9 — DIAMOND DRILL HOLE

68 and 69 series	-	McIntyre Mines Ltd.
R-69 series	-	Rapid River Resources Ltd.

Tr. 1A — TRENCH LOCATION

0.05/15 — ASSAYS - reported in percent U_3O_8 over width in feet

RADIOACTIVITY REPORTED BY GODFREY, RESEARCH COUNCIL OF ALBERTA
(refer to Map Numbers in Bibliography of accompanying report)

AIRBORNE RADIOMETRIC ANOMALY: H.B.O.G. Co. Ltd., 1970 Survey
Survey flown by Geo-X Surveys Ltd. (Assessment files, R.C.A.)

CUT & PICKETED GRIDS

PROPERTY BOUNDARIES

AREA OF DETAILED SOIL GEOCHEM., GROUND RADIOMETRICS, MAG. SURVEY & GEOLOGIC MAPPING - 1976 PROGRAM

MAP 76-12

1976 AIRBORNE RADIOMETRIC SURVEY

(Refer to text of accompanying report for description of instrumentation)

OPERATING SPECIFICATIONS

Flight Line 1E to 61W inclusive

Flight Line Spacing	700'
Mean Terrain Clearance	200' (contour flown where possible)
Average Air Speed	85 m.p.h.
Total Count "Window"	> 0.25 MeV
U + Th "Window"	1.55 MeV - 4.00 MeV
Chart Recording-Total Count	full scale of 1,000 c.p.s.
Chart Recording-U + Th	full scale of 300 c.p.s.
Integration Time-Total Count	1 second
Integration Time-U + Th	1/3 second

FLIGHT LINES 62E to 92E, B-1N to B-3n & 1S to 22S incl.

Flight Line Spacing	flight line generally interspersed with previous lines, for an interval of 350'
Average Air Speed	75 m.p.h.
U + Th "Window"	1.62 MeV - 3.00 MeV
Chart Recording - U + Th	full scale of 100 c.p.s.

58E — A — B — 12,000 c.p.m. — fiducial marks

AIRBORNE RADIOMETRIC ANOMALY (NO PRIORITY RATINGS)

Flight line number, direction and anomaly designation respectively.

Ground radiometric response in counts/minute { McPhar TV-1 Spectrometer / SRAT SPP2 Scintillometer / Scintrex 101 Scintillometer } Total Count Response

N.E. Airborne anomaly, not field examined

Note: Basemap compiled from uncontrolled photomosaics.

TACHYON VENTURE MANAGEMENT LTD.

ANDREW LAKE PROJECT, ALBERTA
AIRBORNE RADIOMETRIC SURVEY
SHEET 4 of 4

DRAWN: NOVEMBER 30, 1976
DRAWN BY: J. R. ALLAN
SURVEY FLOWN: JULY 18-31, 1976
INTERPRETATION: G. BEIER, J. R. ALLAN

SCALE: 1" = 1320'

1320' 1000' 500' 0' 1/4 mi. 1/2 mi. 3/4 mi. 1 mi.

76-4

19760004

ANDREW LAKE

LAKE

LAKE

LAKE

LAKE

LAKE

BEAVER DAM

POND

POND

TRAIL

approx mag. decl. + 25°

MAGNETOMETER SURVEY

Instrument: Mc Phar M700 flugate magnetometer
Operators: F. Hussey , G. Beier
Contouring: J.R. Allan
Contour interval. 0 to 500 gammas, 100 gamma contours, 750, 1000 & 2000 gamma contours

Magnetic station, reading in gammas ; reliability ± 25gammas

Magnetic low

LEGEND

VLF E.M. SURVEY

Instrument: Crone Radem
Station: Seattle, Washington
Dip angle: 1°= 20°
dip East - negative values
dip West - positive values
Operator: G. Beier
Note: VLF data filtered after Fraser technique

VLF E.M. trends; possible weak shears or lithological contacts. No significant conductivity-detected.

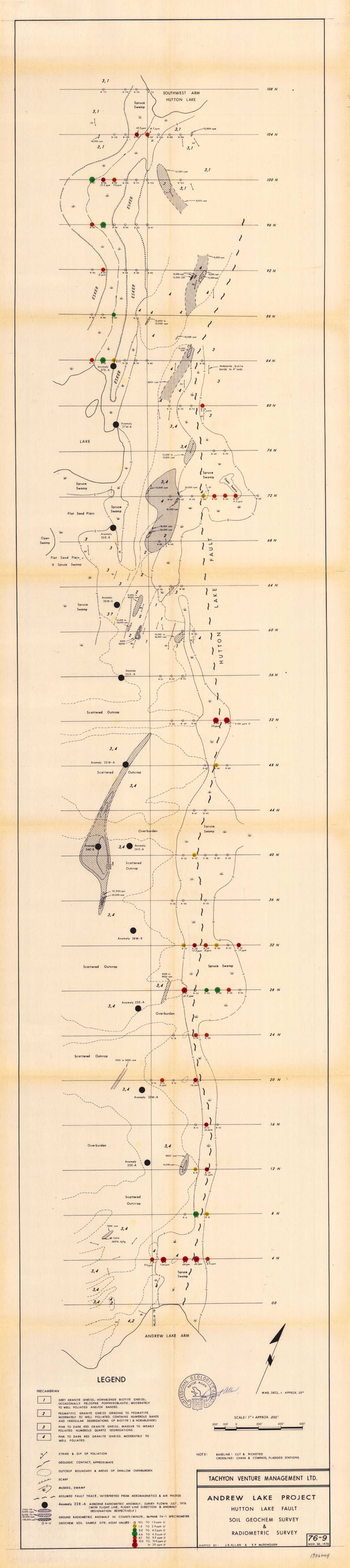
+VALUES
-VALUES

TACHYON VENTURE MANAGEMENT LTD.

ANDREW LAKE PROJECT, ALBERTA
SOUTH ANDREW LAKE GRID
MAGNETOMETER SURVEY
&
RECONNAISSANCE VLF E.M. SURVEY

NOV. 30, 1976
SCALE 1"= 200'
200 100 0 200 400

76-6



LEGEND

PRECAMBRIAN

1 — GREY GRANITE GNEISS, HORNBLENDE BIOTITE GNEISS; OCCASIONALLY FELDSPAR PORPHYROBLASTIC, MODERATELY TO WELL FOLIATED AND/OR BANDED.

2 — PEGMATITIC GRANITE GNEISS GRADING TO PEGMATITE, MODERATELY TO WELL FOLIATED, CONTAINS NUMEROUS BANDS AND IRREGULAR SEGREGATIONS OF BIOTITE (& HORNBLENDE)

3 — PINK TO DARK RED GRANITE GNEISS, MASSIVE TO WEAKLY FOLIATED, NUMEROUS QUARTZ SEGREGATIONS

4 — PINK TO DARK RED GRANITE GNEISS, MODERATELY TO WELL FOLIATED.

- STRIKE & DIP OF FOLIATION
- GEOLOGIC CONTACT, APPROXIMATE
- OUTCROP BOUNDARY & AREAS OF SHALLOW OVERBURDEN
- SCARP
- MUSKEG, SWAMP
- ASSUMED FAULT TRACE, INTERPRETED FROM AEROMAGNETICS & AIR PHOTOS
- Anomaly 22E-A AIRBORNE RADIOMETRIC ANOMALY, SURVEY FLOWN JULY, 1976 (WITH FLIGHT LINE, FLIGHT LINE DIRECTION & ANOMALY DESIGNATION RESPECTIVELY)
- GROUND RADIOMETRIC ANOMALY IN COUNTS/MINUTE, McPHAR TV-1 SPECTROMETER
- GEOCHEM SOIL SAMPLE SITE ASSAY VALUES: NIL TO 1.3 ppm U; 1.4 TO 2.9 ppm U; 3.0 TO 4.5 ppm U; 4.6 TO 6.0 ppm U; 6.1 TO 9.0 ppm U; 9.0 TO 19.9 ppm U; >= 20 ppm U

ASSOCIATION OF PROFESSIONAL GEOLOGISTS OF ONTARIO

TACHYON VENTURE MANAGEMENT LTD.

ANDREW LAKE PROJECT

HUTTON LAKE FAULT
SOIL GEOCHEM SURVEY
&
RADIOMETRIC SURVEY

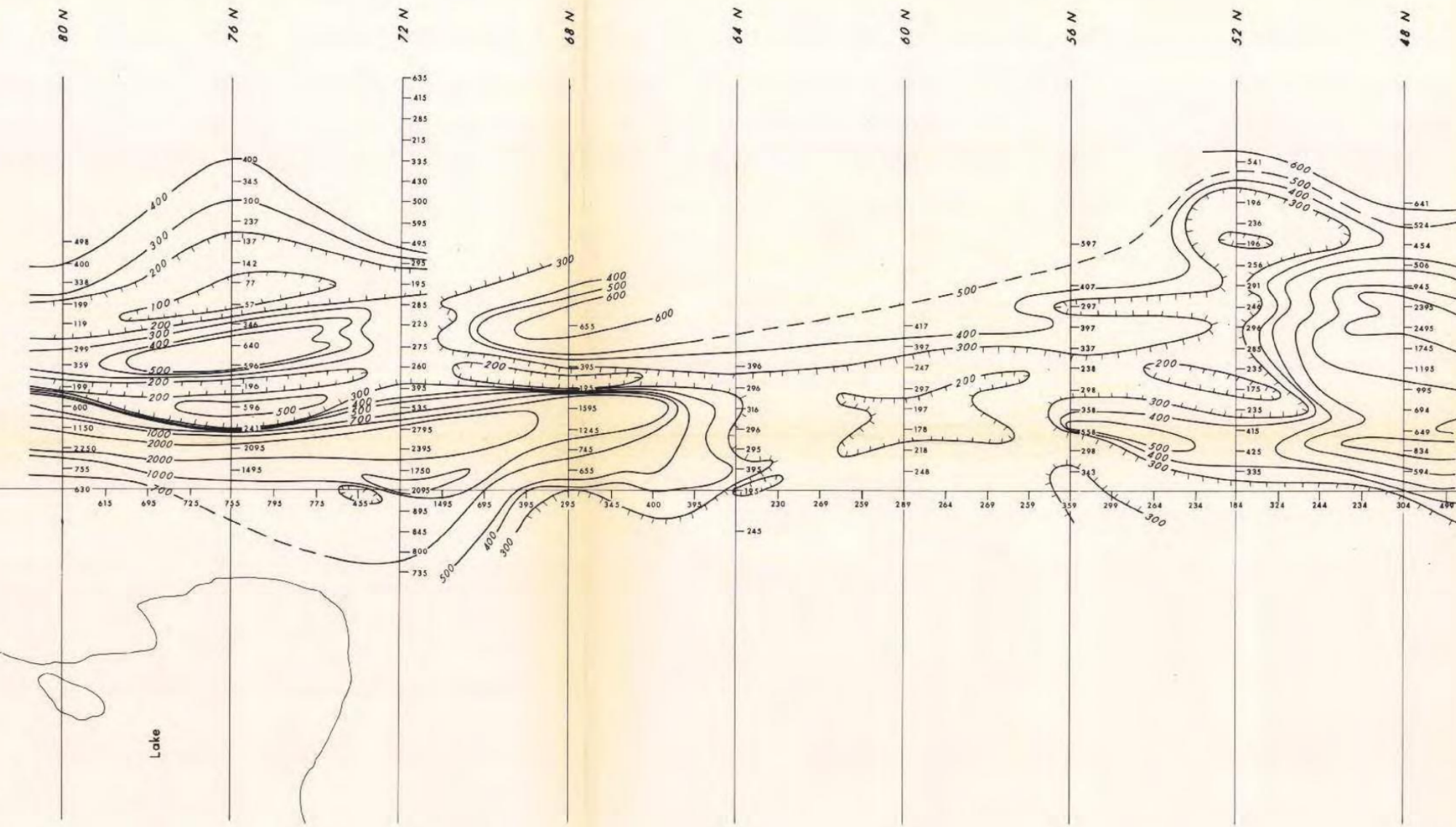
76-9

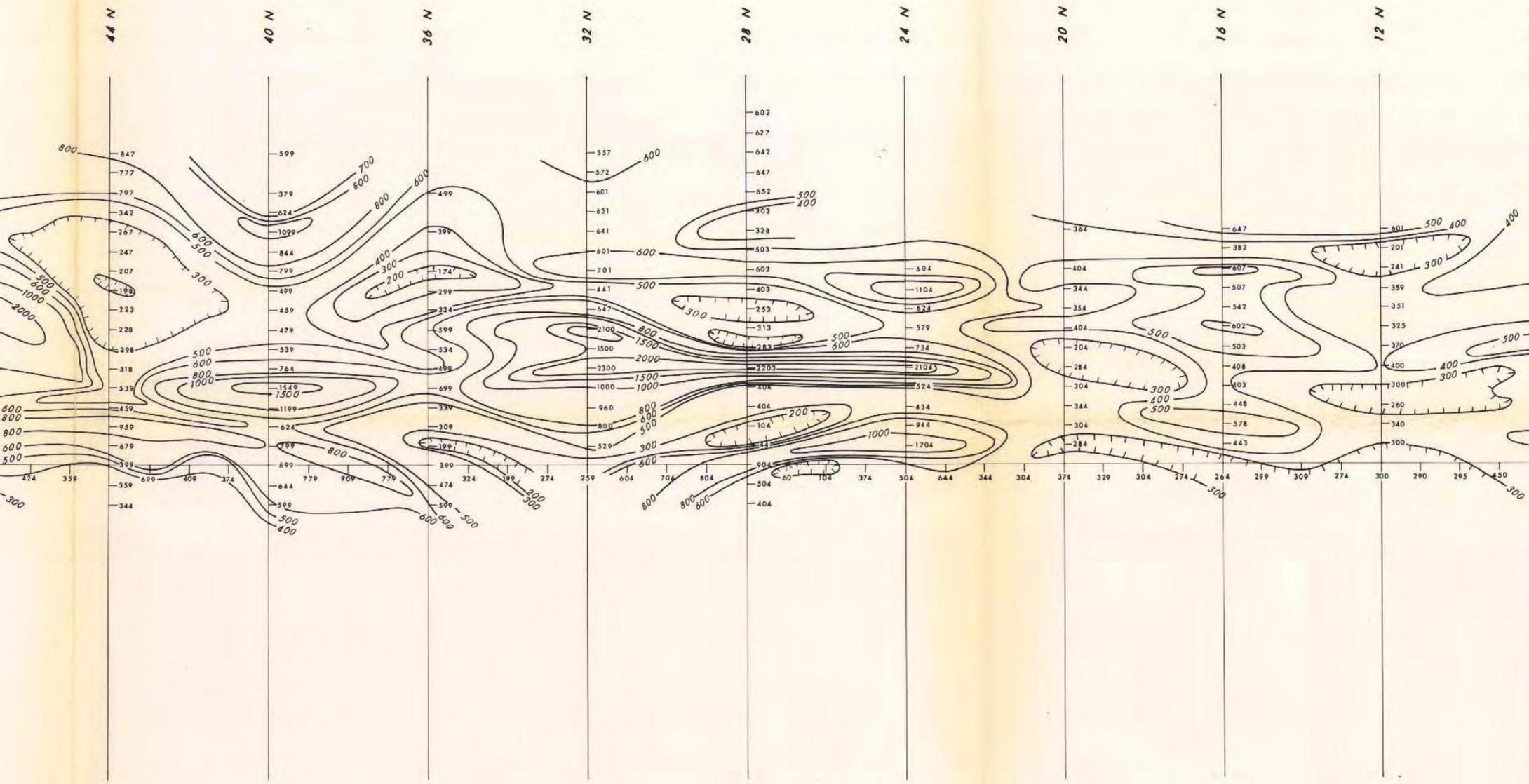
NOV. 30, 1976

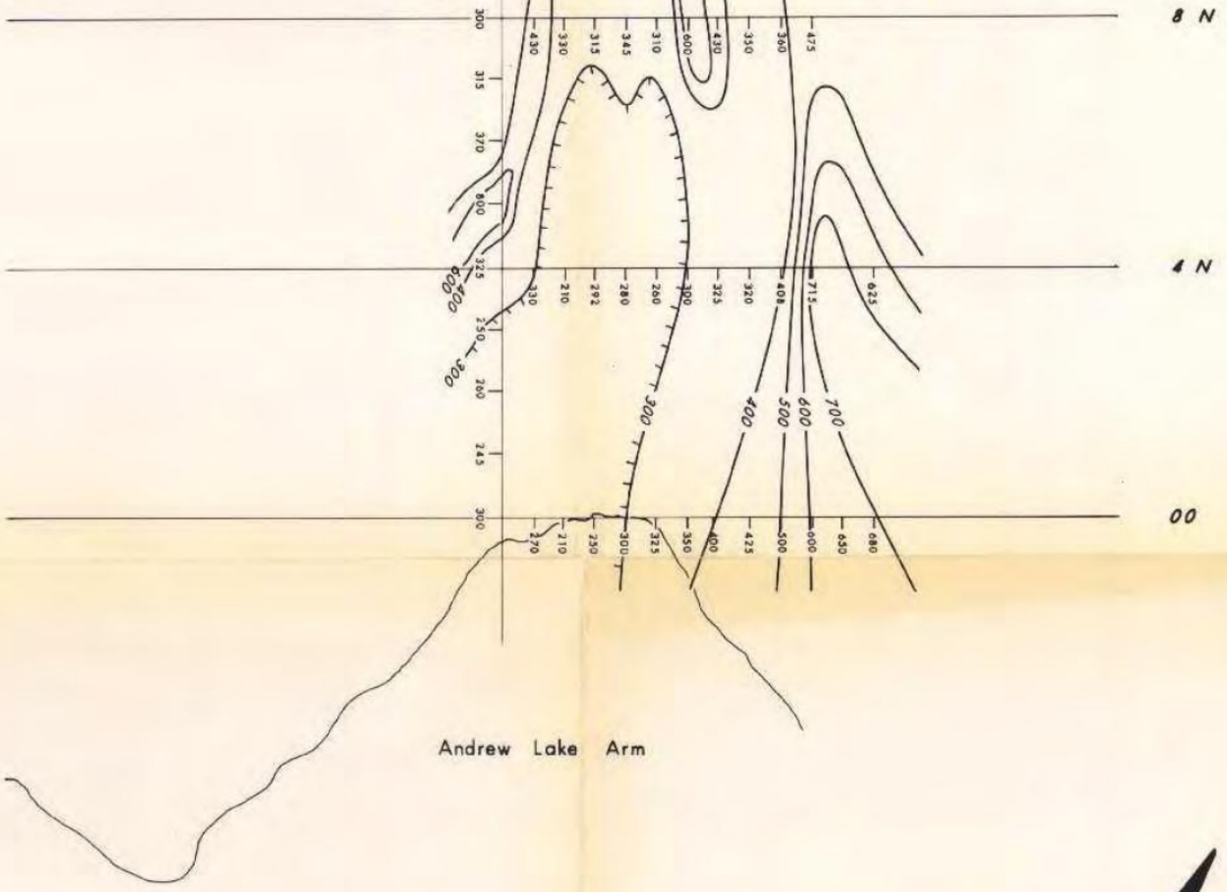
MAPPED BY : J.R. ALLAN & R.F. McDONOUGH

1924m4


108 N
104 N
100 N
96 N
92 N
88 N
84 N


80 N
76 N
72 N
68 N
64 N
60 N
56 N
52 N
48 N
Lake


44 N
40 N
36 N
32 N
28 N
24 N
20 N
16 N
12 N



LEGEND

INSTRUMENT: McPhar M-700 fluxgate magnetometer
READINGS: ± 25 gammas
OPERATOR: G. Beier
CONTOURING: J.R. Allan

596 — Magnetic station, reading in gammas
650 — Contour interval, 100 gammas
700

Magnetic low

MAG. DECL. = 25°

SCALE: 1" = APPROX. 200'

200' 100' 0 200' 400' 600'

PROFESSIONAL GEOLOGIST RUPERT ALLAN ALBERTA

TACHYON VENTURE MANAGEMENT LTD.

ANDREW LAKE PROJECT

HUTTON LAKE FAULT

MAGNETOMETER SURVEY

MAPPED BY: J.R. ALLAN

76-10
NOV. 30, 1976

1976-004

LEGEND

Anomaly 68 E-5 — AIRBORNE RADIOMETRIC ANOMALY, SURVEY FLOWN JULY 1976., ANOMALY INTERPRETATION BASED ON U & Th SINGLE CHANNEL DATA
68 - FLIGHT LINE NUMBER
E - FLIGHT LINE DESIGNATION
5 - ANOMALY DESIGNATION
ANOMALY LOCATION ± 330'

SOIL GEOCHEM SURVEY - July 1976.

3148 - SOIL SAMPLE SITE, SAMPLE NOT ASSAYED
62.0 ppm
- NIL TO 1.3 ppm U
- 1.4 TO 2.9 ppm U
- 3.0 TO 4.5 ppm U
- 4.6 TO 6.0 ppm U
- 6.1 TO 9.9 ppm U
- 10.0 TO 19.9 ppm U
- > 20.0 ppm U

A...L - GEOCHEM ANOMALY DESIGNATIONS

TRACK ETCH SURVEY - August 1976.

#18125 ▶ 45.6 — TRACK ETCH CUP LOCATION, CUP NUMBER AND PROCESSED VALUE IN "TRACKS" PER SQUARE MILLIMETER.
CUP EMPLACEMENTS, AT AN AVERAGE DEPTH OF 30", VARIED FROM 29 TO 30 DAYS, PROCESSED VALUES ARE NORMALIZED TO 30 DAYS TIME.
TOTAL SURVEY EQUALLED 256 CUPS. READINGS RANGED FROM 3.1 TO 143.5 TRACKS PER SQUARE MILLIMETER MEAN, INCLUDING ANAMALOUS ZONES, IS 38.5 AND THE FIRST STANDARD DEVIATION IS 19.8 TRACKS PER SQUARE MILLIMETER.

T-1...T-4 - TRACK ETCH ANOMALY DESIGNATION., FAIR TO POOR CORRELATION, ASSUMED CORRELATION.

TRENCHING AND GROUND RADIOMETRICS

Tr 76-1 — TRENCH LOCATION (AUGUST 1976), ASSAY VALUE IN PERCENT U_3O_8 OVER WIDTH IN FEET.

GROUND RADIOMETRIC ANOMALY, > 6,200 cps, McPHAR TV-1 TOTAL COUNT. ANOMALIES VARIES FROM 3 TO 6 TIMES LOCAL BACKGROUND.

76W 72W 68W 64W 60W 56W 52W 48W 44W 40W 36W 32W 28W 24W 20W 16W 12W 8W 4W BASE LINE N 4E 8E 12E 16E 20E 24E 28E 32E 36E 40E 44E

96N 92N 88N 84N 80N 76N 72N 68N 64N 60N 56N 52N 48N 44N 40N 36N 32N

T-1 T-2 T-3 T-4

PINE & SPRUCE SAND FLATS

SCATTERED OUTCROP

OUTCROP

LAKE

ANDREW LAKE

POND

BEAVER DAM

TRENCH

ROAD

boulder slope

A B C D E F G H I J K L

BASELINE 'A' BASELINE 'B'

approx mag. decl. = 25°

TACHYON VENTURE MANAGEMENT LTD.

ANDREW LAKE PROJECT, ALBERTA
SOUTH ANDREW LAKE GRID
SOIL GEOCHEM. & TRACK ETCH SURVEYS

DRAWN: NOV. 30, 1976 DRAWN BY: J.R. ALLAN

SCALE 1" = 200'
200 100 0 200 400

76-5

1796m.y.

44W 40W 36W 32W 28W 24W 20W 16W 12W 8W 4W 4E 8E 12E 16E 20E 24E 28E 32E 36E

32N 28N 24N 20N 16N 12N 8N 4N 00 4S 8S 12S 16S

T-1 T-1 T-2 T-3 T-4

A B C D E F G

LAKE

ILO LAKE

CARROT LAKE

PERMIT 182

PERMIT 247

PINE & SPRUCE SAND FLATS

SCATTERED OUTCROP

SANDY SLOPE

glacial stream boulder field

BASELINE N 2° W

approx mag decl. = 25°

LEGEND

Anomaly 68E-B — AIRBORNE RADIOMETRIC ANOMALY, SURVEY FLOWN JULY 1976., ANOMALY INTERPRETATION BASED ON U & TH SINGLE CHANNEL DATA
68 - FLIGHT LINE NUMBER
E - FLIGHT LINE DESIGNATION
B - ANOMALY DESIGNATION
ANOMALY LOCATION +- 250'

SOIL GEOCHEM SURVEY July 1976.

3148 - SOIL SAMPLE SITE, SAMPLE NOT ASSAYED
NIL TO 1.3 ppm U
1.4 TO 2.9 ppm U
3.0 TO 4.5 ppm U
4.6 TO 6.0 ppm U
6.1 TO 9.9 ppm U
10.0 TO 19.9 ppm U
62.0 ppm > 20.0 ppm U

A L - GEOCHEM. ANOMALY DESIGNATIONS

TRACK ETCH SURVEY August 1976

B15125 / 456 - TRACK ETCH CUP LOCATION, CUP NUMBER AND PROCESSED VALUE IN 'TRACKS' PER SQUARE MILLIMETER
CUP EMPLACEMENTS, AT AN AVERAGE DEPTH OF 30", VARIED FROM 29 TO 30 DAYS., PROCESSED VALUES ARE NORMALIZED TO 30 DAYS TIME.
TOTAL SURVEY EQUALLED 200 CUPS. READINGS RANGED FROM 3.1 TO 143.5 TRACKS PER SQUARE MILLIMETER. MEAN, INCLUDING ANAMALOUS ZONES, IS 38.5 AND THE FIRST STANDARD DEVIATION IS 19.8 TRACKS PER SQUARE MILLIMETER.

T-1...T-4 - TRACK ETCH ANOMALY DESIGNATION., FAIR TO POOR CORRELATION, ASSUMED CORRELATION.

TRENCHING AND GROUND RADIOMETRICS
after P. Lassila, Hudson's Bay Oil & Gas Ltd., 1970.

RADIOMETRICS., McPHAR TV-5, TOTAL COUNT, SPOT HIGHS SUMMARIZED AS FOLLOWS:
- 10,000 TO 25,000 cpm
- 25,000 TO 50,000 cpm
- 50,000 TO 100,000 cpm
- > 100,000 cpm

Tr.16+95S — TRENCH LOCATION & NUMBER, CHIP SAMPLED.
.018/2' — ASSAY VALUE IN PERCENT eU3O8 OVER WIDTH IN FEET
Tr.6+70S — TRENCH LOCATION., NOT SAMPLED BY HBOG.

MINERALIZED AND/OR WEAKLY RADIOACTIVE HORIZON, DELINEATED BY GROUND RADIOMETRICS, PROSPECTING AND TRENCHING

APPROXIMATE OUTCROP BOUNDARIES, OR AREAS OF SHALLOW OVERBURDEN

SWAMP, MUSKEG, SPRUCE SWAMP

SCARP

SLOPE DIRECTION

PROFESSIONAL GEOLOGIST ROBERT ALLAN ALBERTA

TACHYON VENTURE MANAGEMENT LTD.

ANDREW LAKE PROJECT, ALBERTA
SOUTH ANDREW LAKE GRID
SOIL GEOCHEM. & TRACK ETCH SURVEYS

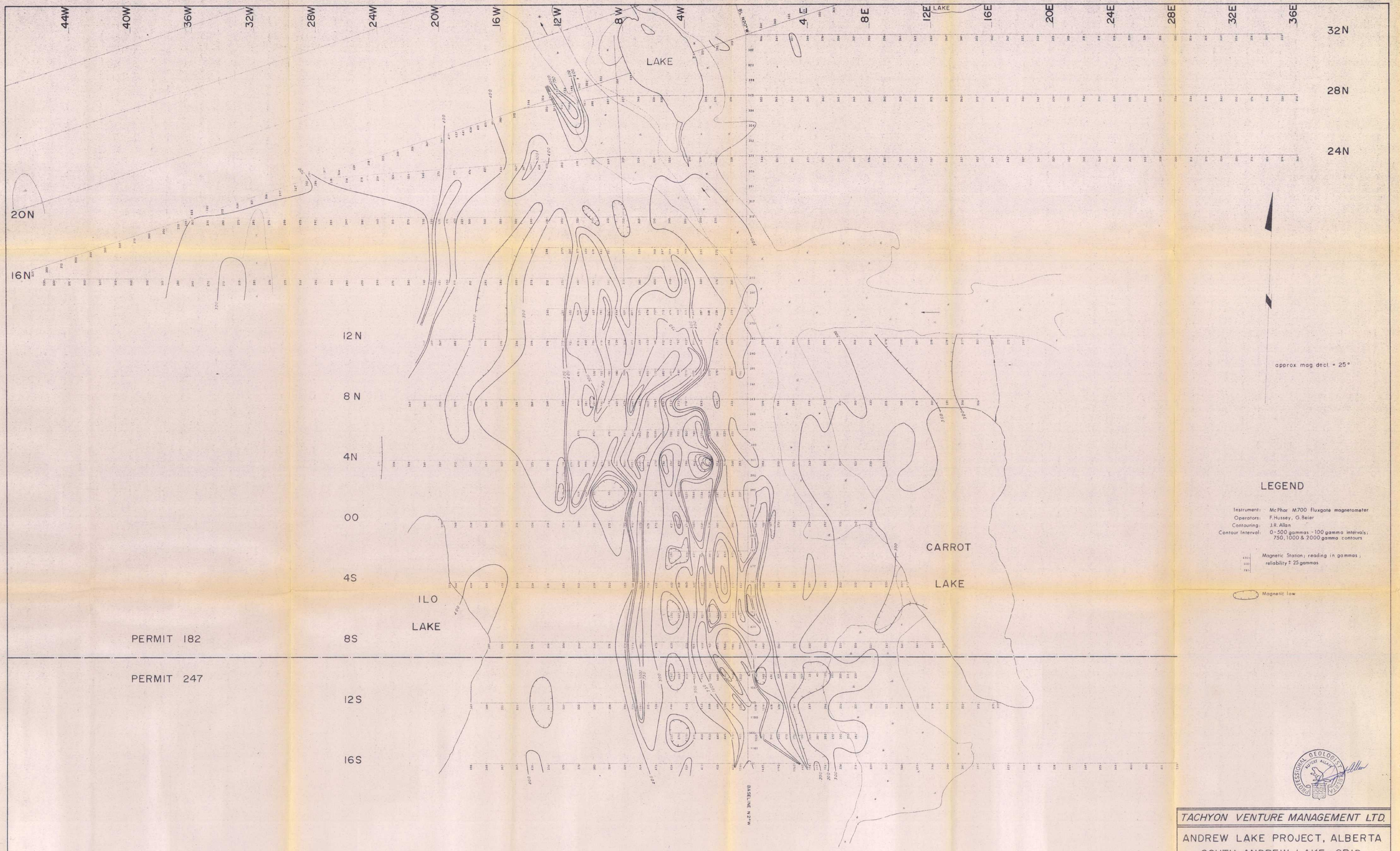
DRAWN: NOV. 30, 1976 DRAWN BY: J. R. ALLAN

SCALE 1" = 200'

200 100 0 200 400

76-7

1776004



LEGEND

Instrument: McPhar M700 fluxgate magnetometer
Operators: F. Hussey, G. Beier
Contouring: J.R. Allan
Contour Interval: 0-500 gammas - 100 gamma intervals; 750, 1000 & 2000 gamma contours

Magnetic Station; reading in gammas; reliability ± 25 gammas

Magnetic low

PROFESSIONAL GEOLOGIST ROBERT ALLAN ALBERTA

TACHYON VENTURE MANAGEMENT LTD.

ANDREW LAKE PROJECT, ALBERTA
SOUTH ANDREW LAKE GRID
MAGNETOMETER SURVEY

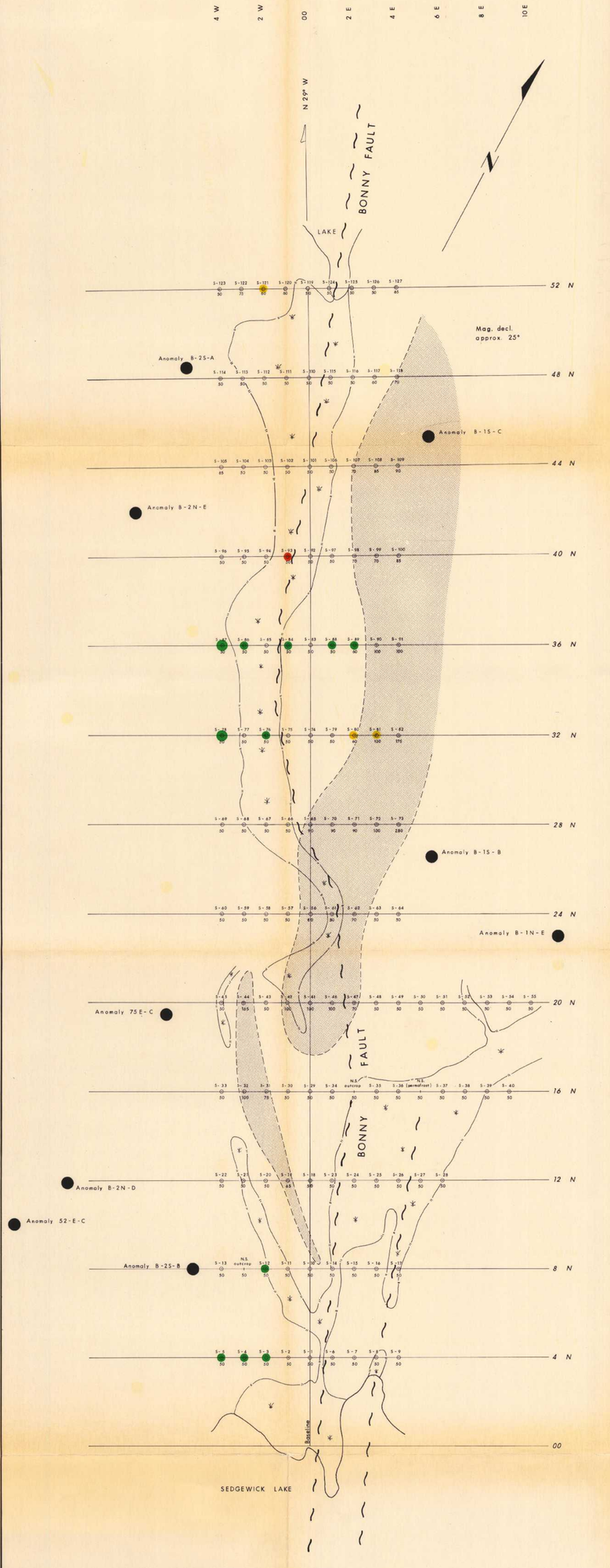
NOV. 30, 1976

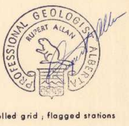
SCALE 1" = 200'

200 100 0 200 400

76-8

1986004





NOTE: Pace & Compass controlled grid ; flagged stations

SCALE: 1" = approx. 200'

200' 100' 0 200' 400'

LEGEND

- Swamp, muskeg
- Scarp
- Assumed fault trace from aeromagnetic and air photo interpretation
- Anomaly B-1N-E — Airborne Radiometric Anomaly Survey flown July, 1976 (flight line, direction & anomaly designation respectively)
- Ground Radiometric Anomaly (1 1/2 to 2 times background)
- Soil sample site & sample number
- 100-S-100 — Ground radiometric station, reading in counts/second, SRAT SPP2 Scintillometer

Soil Geochem Assay Values

NIL	TO 1.3 ppm U
1.4	TO 2.9 ppm U
3.0	TO 4.5 ppm U
4.6	TO 6.0 ppm U
6.1	TO 9.9 ppm U
10.0	TO 19.9 ppm U
	> 20 ppm U

TACHYON VENTURE MANAGEMENT LTD.

ANDREW LAKE PROJECT

BONNY FAULT ZONE
SEDGEWICK LAKE SECTOR

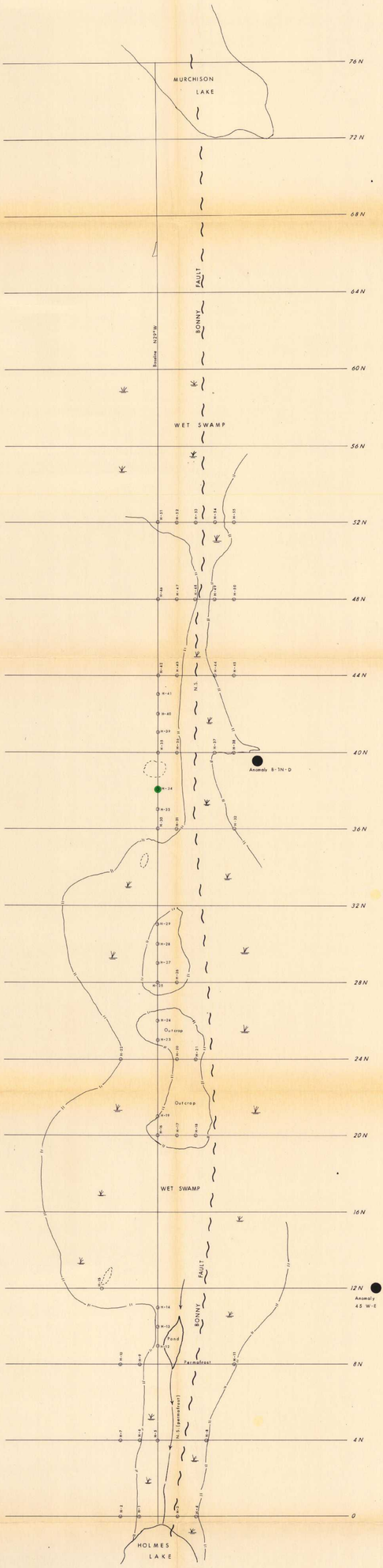
SOIL GEOCHEM & SCINTILLOMETER SURVEY

76-14

Nov. 30, 1976

Mapped by : G.F. Beier

1976 only



Mag. decl.
approx. 25°

LEGEND

Anomaly 45 W-E — Airborne Radiometric Anomaly Survey flown July, 1976 (flight line number, direction & anomaly designation respectively)

Swamp, muskeg (permafrost)

Outcrop boundry, approximate

Assumed fault trace, interpreted from aeromagnetics & air photos

Soil sample site & sample number

Soil Geochem Assay Values

- Nil TO 1.3 ppm U
- 1.4 TO 2.9 ppm U
- 3.0 TO 4.5 ppm U
- 4.6 TO 6.0 ppm U
- 6.1 TO 9.9 ppm U
- 10.0 TO 19.9 ppm U
- > 20 ppm U

Note: Pace & compass grid control

PROFESSIONAL GEOLOGIST — ALBERT

TACHYON VENTURE MANAGEMENT LTD.

ANDREW LAKE PROJECT

BONNY FAULT ZONE
HOLMES – MURCHISON LAKES SECTOR
SOIL GEOCHEM SURVEY

Mapped by: F. Hussey — Drawn: Nov. 30, 1976

SCALE 1" = approx. 400'

200' 100' 0 200' 400'

76-13

1776004

8 W 6 W 4 W 2 W 00 2 E 4 E 6 E

192N

188N

184N

180N

176N

172N

HOLMES LAKE

A-86 60 ppm U
A-87
A-88
A-89
A-90
A-91
A-92
A-93
A-94

FAULT

A-76
A-77
A-78
A-79
A-80
A-81
A-82
A-83
A-84
A-85

BONNY

A-69
A-70
A-71
A-72
A-73
A-74
A-75

B-2N-C

A-63
A-64
A-65
A-66
A-67
A-68

A-42
A-41
A-40
A-39
A-38
A-37
A-36
A-35
A-34
A-33

B.L. N29° W

A-43
A-44
A-45
A-46
A-47
A-48
A-49
A-50
A-51
A-52

SPLIT LAKES

Mag decl.
= approx. 25°

LEGEND

B-2N-C — Airborne Radiometric Anomaly; Survey flown July, 1976 (Flight line number, direction & anomaly designation, respectively).

A-89 — Soil Geochem. Sample Site, sample number.

Geochem. assay values:

- Nil to 1.3 ppm U
- 1.4 to 2.9 ppm U
- 3.0 to 4.5 ppm U
- 4.6 to 6.0 ppm U
- 6.1 to 9.9 ppm U
- 10.0 to 19.9 ppm U
- > 20 ppm U

Note: Grid lines pace & compass controlled

PROFESSIONAL GEOLOGIST ALBERTA RUPERT ALLAN

TACHYON VENTURE MANAGEMENT LTD.

ANDREW LAKE PROJECT, ALBERTA

BONNY FAULT ZONE
SPLIT LAKES - HOLMES LAKE SECTOR
SOIL GEOCHEM. SURVEY

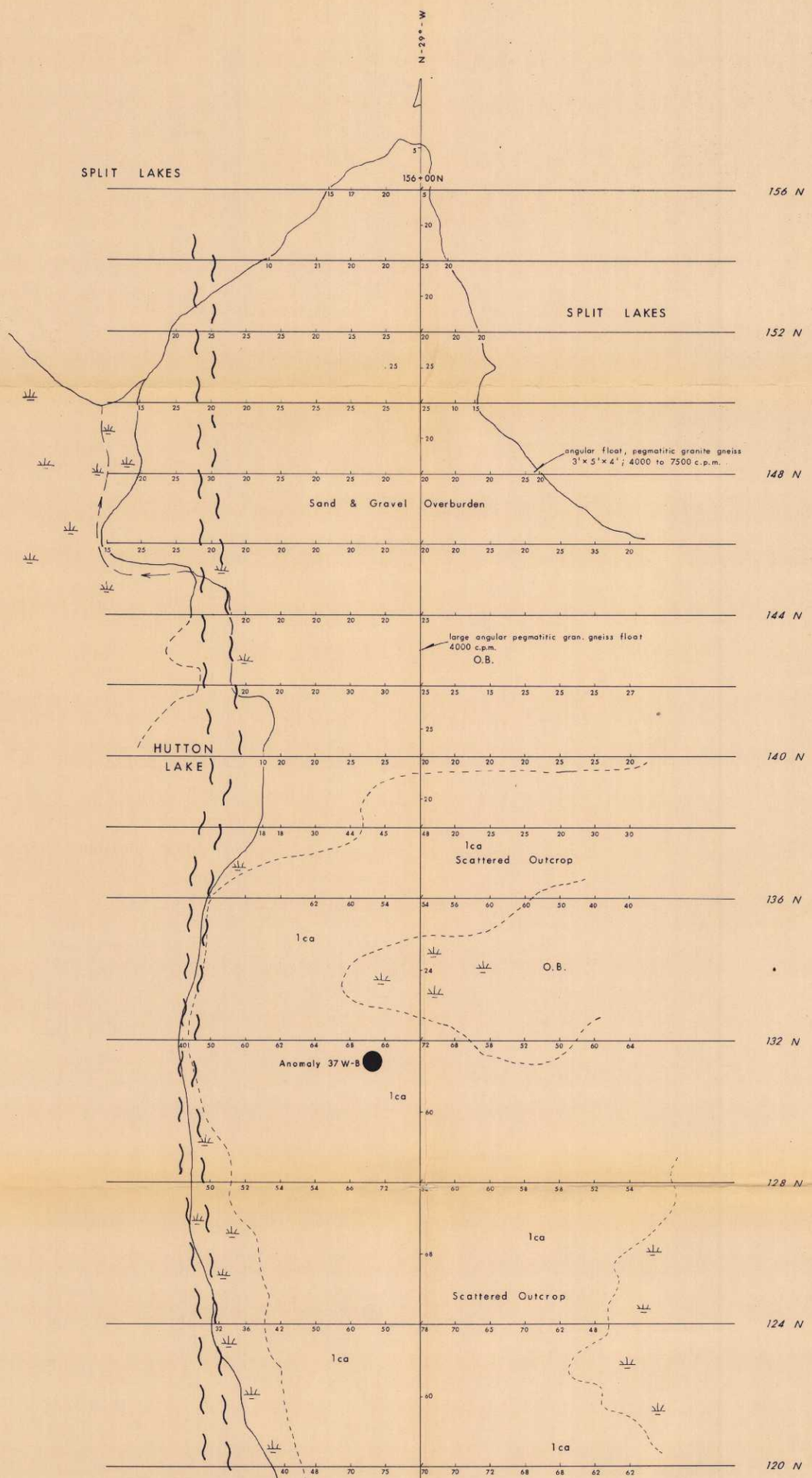
DRAWN: NOV. 30, 1976 DRAWN BY: J. R. ALLAN

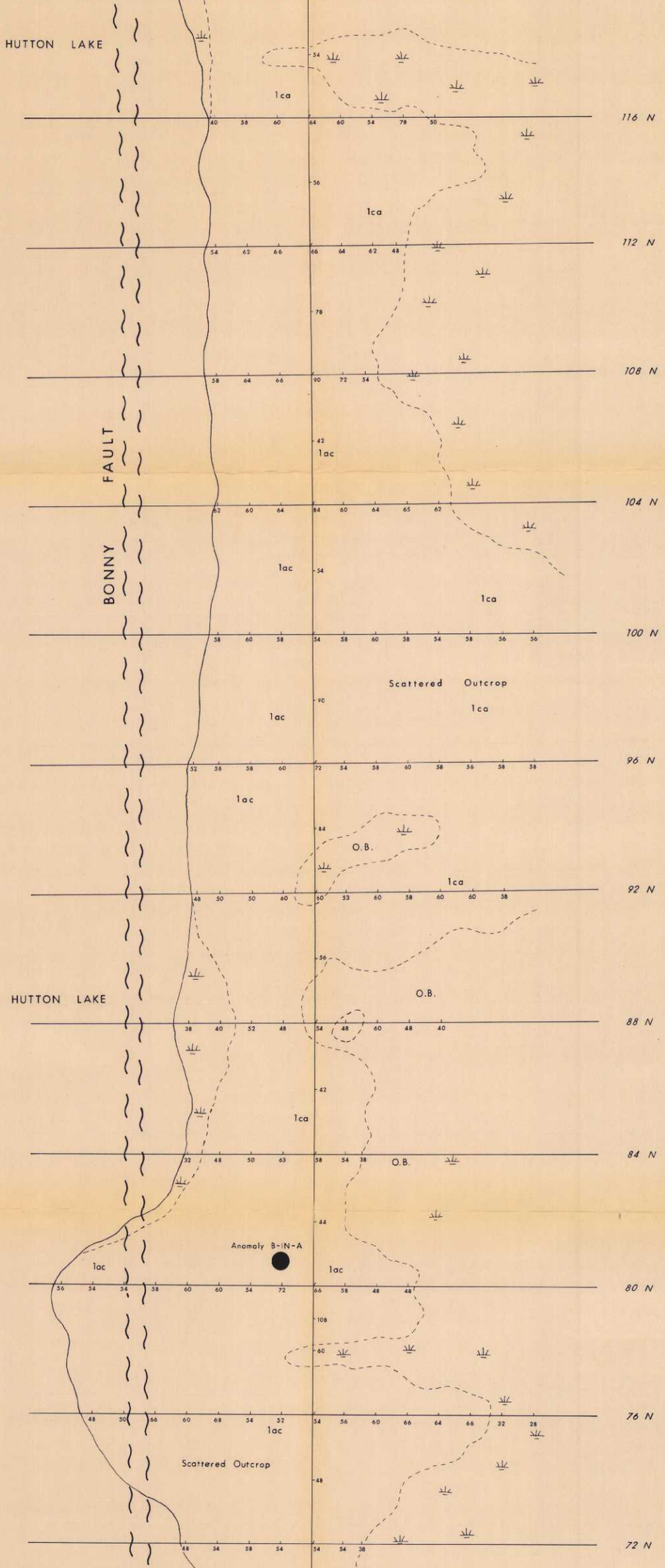
Scale 1" = 200'

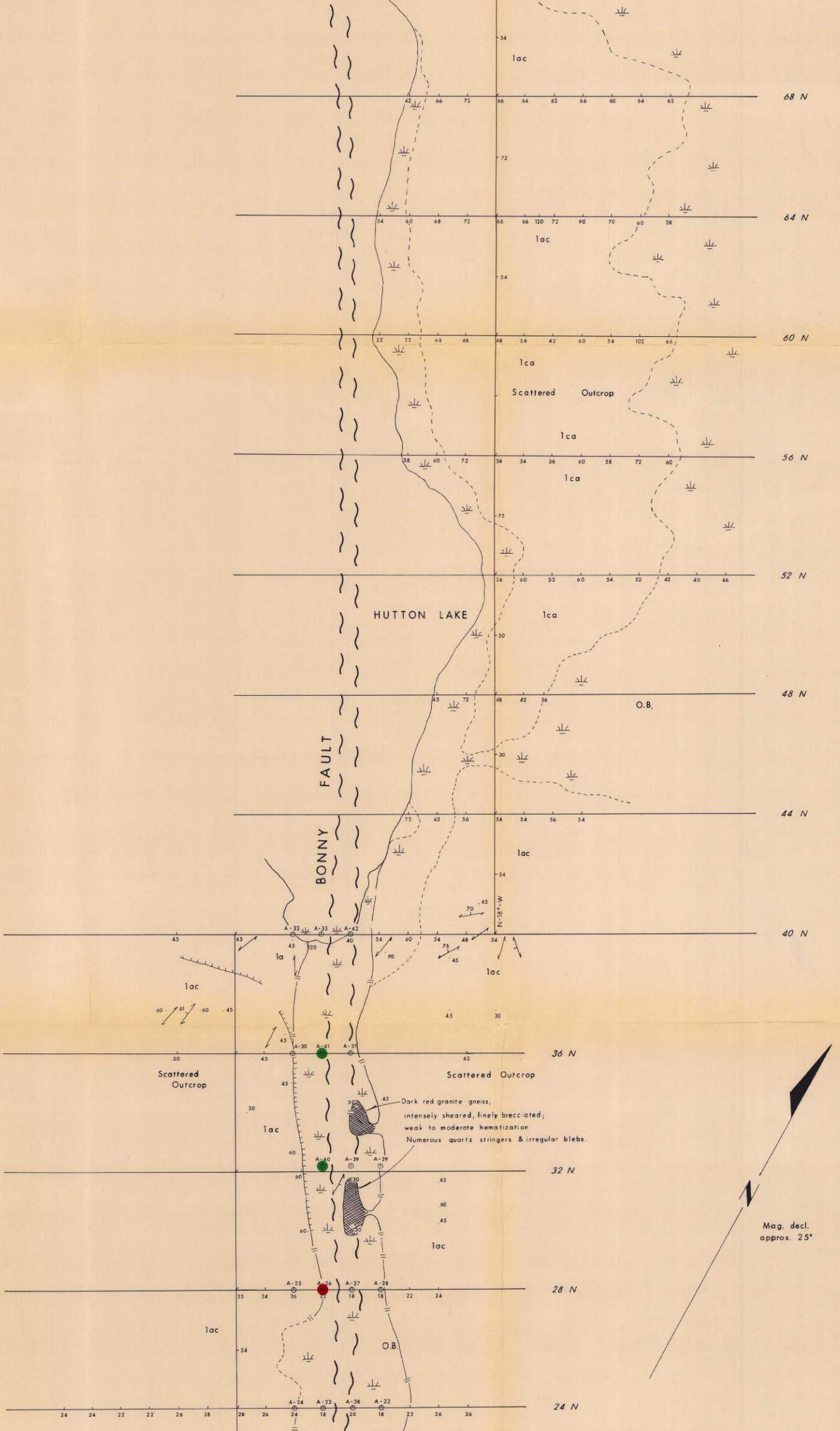
200 100 0 200 400 600

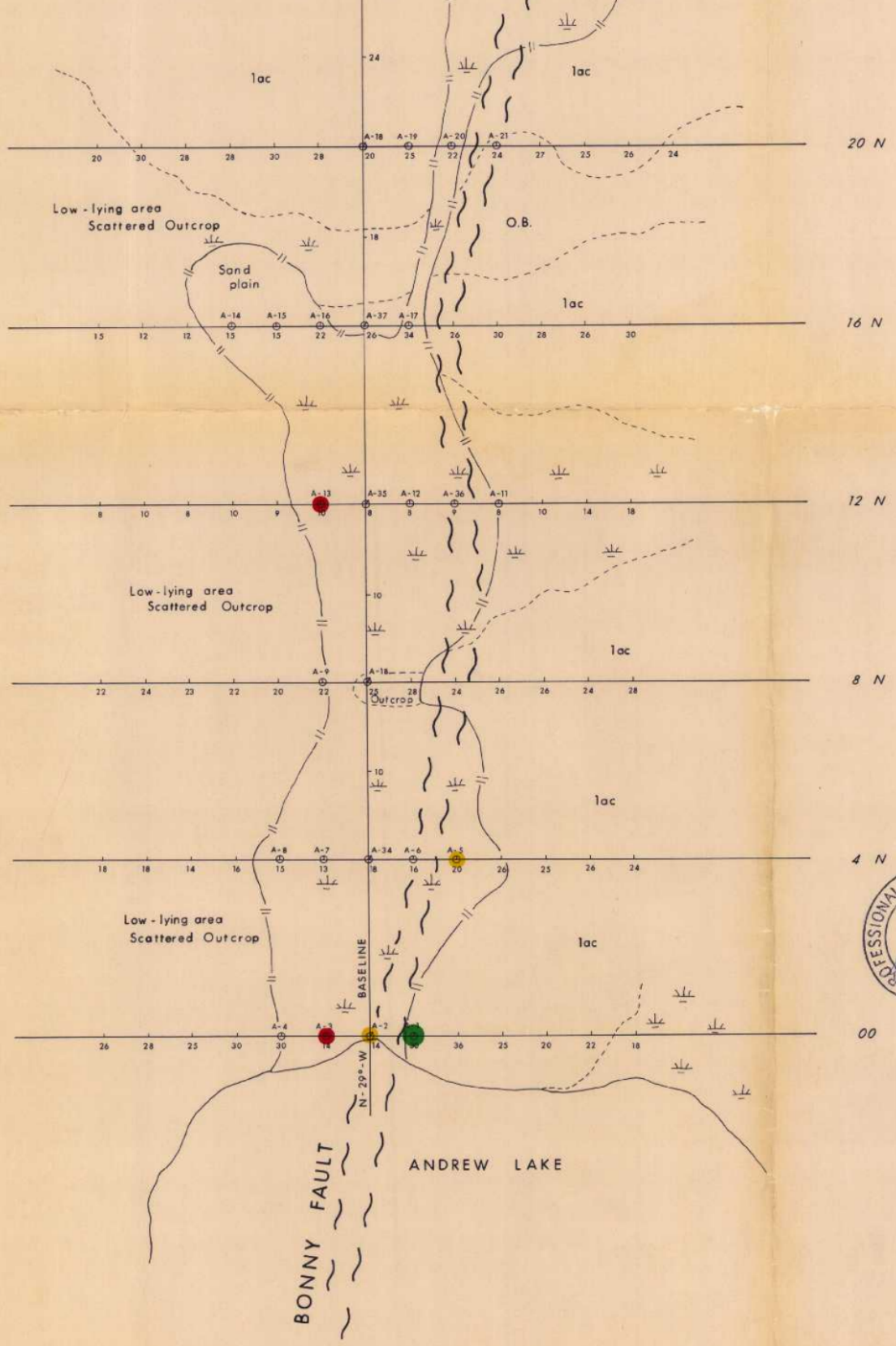
76-12

1976 c 0004


N-29°-W
SPLIT LAKES
156+00N
156 N
SPLIT LAKES
152 N
angular float, pegmatitic granite gneiss
3'×5'×4'; 4000 to 7500 c.p.m.
148 N
Sand & Gravel Overburden
144 N
large angular pegmatitic gran. gneiss float
4000 c.p.m.
O.B.
HUTTON
LAKE
140 N
1ca
Scattered Outcrop
136 N
1ca
O.B.
132 N
Anomaly 37 W-B
1ca
128 N
1ca
Scattered Outcrop
124 N
1ca
1ca
120 N


HUTTON LAKE
BONNY FAULT
HUTTON LAKE
1ca
1ac
Scattered Outcrop
O.B.
Anomaly B-IN-A
116 N
112 N
108 N
104 N
100 N
96 N
92 N
88 N
84 N
80 N
76 N
72 N


68 N
64 N
60 N
56 N
52 N
48 N
44 N
40 N
36 N
32 N
28 N
24 N
lac
lca
Scattered Outcrop
HUTTON LAKE
O.B.
BONNY FAULT
la
A-32
A-33
A-42
A-30
A-41
A-31
A-40
A-39
A-29
A-25
A-26
A-27
A-28
A-24
A-23
A-38
A-22
Dark red granite gneiss,
intensely sheared, finely brecciated;
weak to moderate hematization
Numerous quartz stringers & irregular blebs.
N 18° W
Mag. decl.
approx. 25°



Anomaly 37W-B — Airborne radiometric anomaly (survey flown July, 1976) Flight line number, flight line direction & anomaly designation respectively

68 25 40 — Ground radiometric station, readings in counts/minute × 100
McPhar TV-1 spectrometer (total count made)

A-16 A-37 A-17 — Soil sample locations; assay values as below

- 0 TO 1.3 ppm U
- 1.4 TO 2.9 ppm
- 3.0 TO 4.5 ppm
- 4.6 TO 6.0 ppm
- 6.1 TO 9.9 ppm
- 10.0 TO 19.9 ppm
- > 20 ppm

75 — Strike & dip of foliation

Approximate outcrop boundry (or area of shallow overburden)

Muskeg, swamp (generally permafrost)

O.B. Overburden

Trace of fault (shear or mylonite zone?) interpreted from aeromagnetics & air photos

Intense shearing & brecciation

1 — Granite Complex
a - hematized, weakly to moderately sheared, massive to weakly foliated granite
b - greyish, hornblend-biotite granite gneiss; moderately to well foliated
c - Pink granite gneiss; moderately to well foliated
Local pegmatitic phases

PROFESSIONAL GEOLOGIST RUPERT ALLAN ALBERTA

NOTE: Baseline cut and picketed. Crosslines chained & flagged.

TACHYON VENTURE MANAGEMENT LTD.

ANDREW LAKE PROJECT

BONNY FAULT ZONE

ANDREW LAKE - SPLIT LAKE SECTOR

GEOCHEMICAL & GROUND RADIOMETRIC SURVEYS

Drawn: Nov. 30, 1976

Mapped by: E.P. McDonough
J.R. ALLAN

SCALE: 1" = approx. 200'
200' 100' 0 200' 400'

76-11

1976000Y