

MAR 19760002: CHERRY LAKE

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N.T.S. 74-M-9, 16

ECONOMIC MINERALS
FILE REPORT No.

U-AF-112(2)
U-AF-113(1)
U-AF-114(1)
U-AF-126(1)

PROGRESS REPORT

ON

AQUARIUS RESOURCES LTD.

QUARTZ MINERAL EXPLORATION PERMITS 182, 183, 184

AND THE CHERRY LAKE PROPERTY (PERMIT PENDING)

NORTHEASTERN ALBERTA

FOR

TACHYON VENTURE MANAGEMENT LTD.

J. R. ALLAN, P.GEOL.
JULY 20, 1976

PROGRESS REPORT: JUNE 15 - JULY 20, 1976

Exploration of Quartz Mineral Exploration Permits #182, 183, 184, and the Cherry Lake Property (Permit application dated June 30, 1976 - final approval pending) commenced June 15th with a prospecting party mobilizing out of Fort Smith, N.W.T. to Andrew Lake, Alberta. Two base camps have been established; one at 'Andrew Lake Lodge', two miles north of the southwest end of Andrew Lake, and the other on the southeast shore of Andrew Lake.

Forty line miles of hand-cut picket line grid (base lines at N 01° W and N 20° W, 400' spaced crosslines) have been established in Area 2, Permit No. 182 (c.f. appended sketch and Compilation Map.) The entire grid has been surveyed with a McPhar M-700 fluxgate magnetometer (100' station intervals in areas of low magnetic relief, 50' stations in anomalous areas.) Contoured maps at a scale of 1" = 400' (50 gamma contouring) will be completed by July 30th.

Approximately 15 line miles of geochem soil sampling has been completed at the northern end of the grid (100' station intervals, average sample depth 18"; samples to be analyzed fluorimetrically for uranium.)

Detailed prospecting of the northern ¼ of the grid has been completed; utilizing two portable differential gamma ray spectrometers and one total-count scintillometer.

One rock trench on a new showing at line 88 N - 2+00 E (Atlas Copco Cobra rock drill - drilling and blasting to a depth of 3') commenced July 19th.

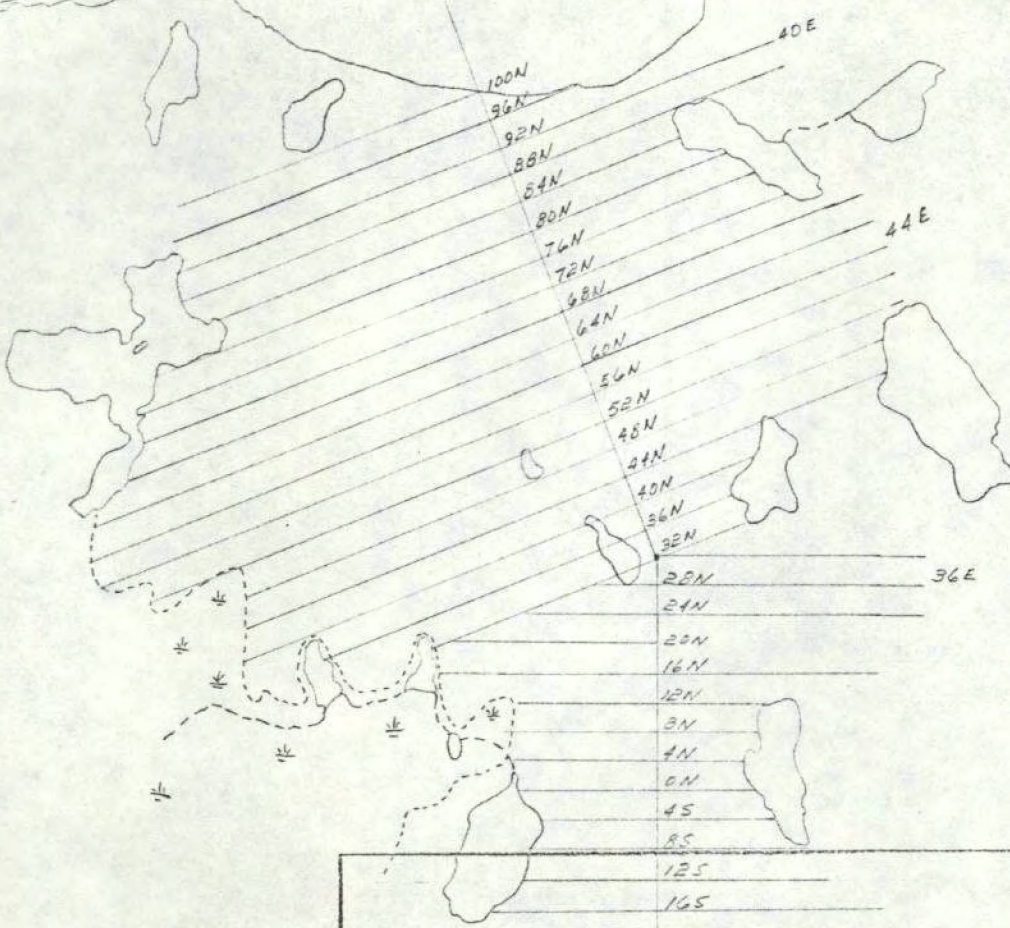
The airborne gamma-ray spectrometer survey (float-equipped Bell J2A SAR-1 airborne system - 2 channel recorder for U + Th and total-count, 1,200 cu. in. NaI crystal detector) of the southern portions of Permits 182 and 184 commenced July 8th. The helicopter crashed the same day, fortunately with no injury to the pilot or navigator, although the machine was damaged beyond repair. Considerable delay and expense was encountered in salvaging the airborne system, dismantling and checking the electronics, contracting another helicopter and re-installing the system. The airborne survey, with the system now mounted in an Apex Helicopter Ltd. float-equipped Bell 206 B, recommenced July 19th. Approximately 600 line miles of detailed first pass survey has been completed (east-west oriented, 700' spaced lines; average speed 80 m.p.h.; mean terrain clearance 200'; total count window >0.25 MeV, U + Th window 1.55 - 4.00 MeV) covering the southern portion of the property as outlined on the accompanying Compilation Map. Flight lines,

22/5/76 JRA

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1" = 1/2 mi
ANDREW LAKE

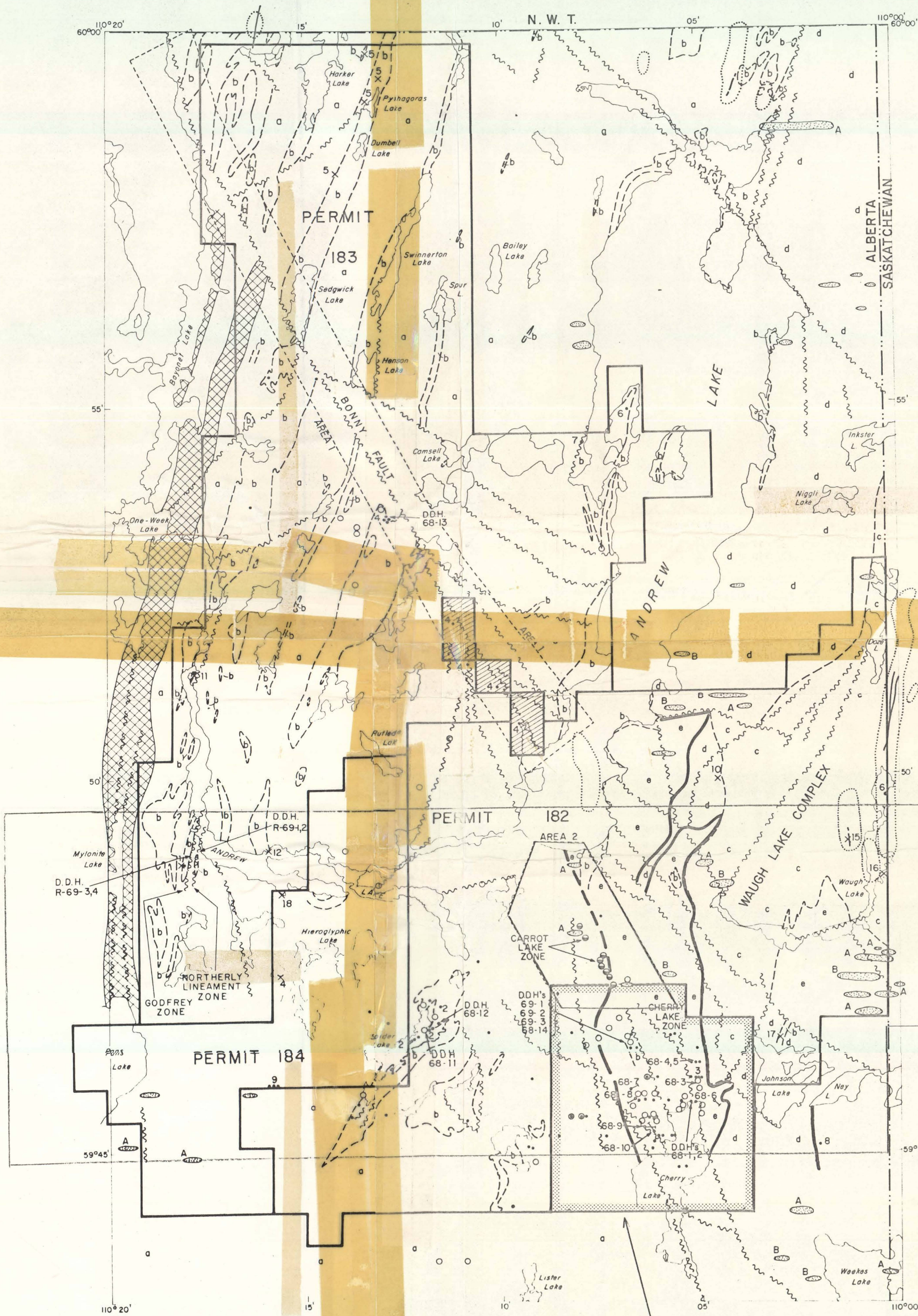
N20°W
B.L.



PERMIT NO 182

B.L. N20°W

CHERRY LAKE PROPERTY



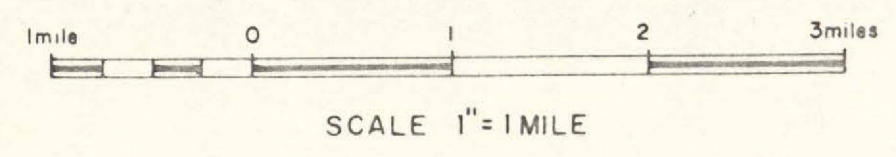
LEGEND

- Note: Rock units are not arranged chronologically
- PRECAMBRIAN**
- Granite gneiss a
 - Metasedimentary Belts b
 - Waugh Lake Complex c
 - Porphyroblastic Biotite Granite d
 - Massive Biotite and Leucocratic Granite e
 - Bayonet Lake Mylonite Zone X
- Geologic boundaries, approximate
- Geologic contacts, major subdivisions
- Mineralization locality; Report 58-4 X
- Radiactivity; Report 58-4; Maps 58-3A, 61-2A, 62-1A, 65-6A, 65-6D •
- Airborne radiometric anomaly, total count July 1968: McIntyre Porcupine Mines - New Senator Option ○
- Airborne radiometric anomaly, U+Th Geo-X Surveys - HBOG Co. Ltd, 1970
A - medium, B - weak, no letter - questionable results ○
- Ground radiometric anomaly, HBOG Co. Ltd. ●
- Airborne EM conductor & trace of ground vert loop EM conductor, Canadian Aero Surveys - HBOG Co. Ltd, 1969 ○
- Fault and/or shear zones
- Claims excluded from Aquarius Mines Permits X
- Diamond drill hole, 68 and 69 series - McIntyre Mines Ltd R-69 series - Rapid River Resources ○

TACHYON VENTURE MANAGEMENT LTD.

ANDREW LAKE DISTRICT, ALBERTA
Permits 182, 183, 184

COMPILATION MAP



Drawn by: J.R. Allan Revised: 6/76 Drafted by: M.A.P.S.
March 30, 1976
Base map after: Godfrey, Map 58-4, RCA

CHERRY LAKE PROPERTY



Rupert Allan, P. Geol.
July 25/76

fiducial marks and interpreted anomalous areas are being recorded on a base map at a scale of 1" = 1360'. All anomalous areas will be re flown in greater detail, with variable integral times and for differential U and Th data (as opposed to the present "total-count" and "U + Th" recording.) The flight tapes applicable to the Permit areas will be filed for assessment purposes as well as the base map.

Two further days delay of the prospecting portion of the program were entailed as a result of an eye injury to one of the prospectors. Mr. G. Beiers was flown to Uranium City, Saskatchewan, for minor surgery July 16th and recommenced work July 19th.

At present, the crew consists of the writer (project supervisor and airborne systems navigator), 1 helicopter pilot/engineer, 2 prospectors and 3 helpers. An additional geologist will join the crew July 25th, and 2 more prospectors August 1st.

A detailed but unaudited account of expenditures to date (excluding administrative expenses incurred by Tachyon Venture Management Ltd., Permit bonds, filing and renewal, and legal expenses) is appended overpage. The total is estimated at \$50,170.25 of which approximately \$2,500.00 may be claimable from insurance (re: helicopter accident) and \$660.00 refundable upon return of empty fuel drums.

Completion of the airborne spectrometer survey is estimated at August 1st, and the soil geochem survey on the grid in Area 2 by July 25th. On July 26th the prospecting party will commence cutting a control baseline the length of the Bonny Fault (Area 1, Permit No. 183) in conjunction with the follow-up of obtained airborne radiometric anomalies.

J. Rupert Allan, P.Geol.

EXPENDITURES TO DATE (UNAUDITED)

PREFIELD & OFFICE EXPENSES (excluding administration)

1. Consulting, project planning & expediting; [REDACTED] P. Geol., 24 days @ \$170/day		\$ 4,100.00
2. Purchase of confidential airborne gamma-ray spectrometer survey results over the permit areas, flown by Texas Instruments Ltd., 1969, on behalf of Geophoto Services Ltd., Calgary		2,475.95
3. Drafting; 1" = ½ mi. basemap		250.00
4. Photomosaic blowups, 2 @ 1" = ½ mi., 1 @ 1" = ¼ mi.		505.34
5. Printing, xeroxing, drafting supplies, mylar film, etc.		371.01
6. Airphotos, maps (geology and aeromagnetic), geol. reports		46.50
7. Telephone, postage, etc. (estimated)		700.00
8. 1 month rental of SAR-1 gamma ray air-borne spectrometer system, Goldak Exploration Technology Ltd.		4,750.00
9. Helicopter installation of spectrometer; servicing, calibrating and test flying		<u>1,250.00</u>
	Sub-total	\$14,448.80

FIELD EXPENSES

10. Mobilization to Fort Smith, N.W.T. 1 charter flight, Calgary to Fort Smith	\$ 500.00	
Air freight	98.00	
3 airfares, Toronto - Fort Smith	840.00	
Vehicle expenses (diamond drill & camp equipment, Toronto - Fort Smith)	500.00	
Hotel, meals, etc.	600.00	
Supervisory trip, J. R. Allan; Calgary - Fort Smith and return; airfare, meals, hotel; including charter return during airstrike	<u>552.05</u>	3,090.05
11. Mobilization: Fort Smith - Andrew Lake 4 Turbo Beaver trips, 520 mi. x \$1.35/mi.	\$ 702.00	
2 Cessna 185 trips, 260 mi. x \$0.90/mi.	<u>234.00</u>	936.00
12. Fuel haul; Uranium City - Andrew Lake 5 Single Otter trips, 600 mi. x \$1.80/mi.		1,080.00

13.	Fuel: 30 drums Turbo B		\$ 2,096.10
	3 drums reg. gas, 1 case oil, 20 gal. naphtha		191.22
	1 drum 80/87 av. gas		52.50
14.	Camp equipment, tools, lumber and disposable supplies		584.93
	Camp equipment rental: June 15 to July 15		
	30 days x 4 men x \$7.00/day		840.00
	Radio rental: 2 @ \$100/mo.		200.00
	Boat rental from Canadian Frontier Lodges, incl. gas		
	June 17 to July 8, 22 days @ \$30/day		660.00
	12' aluminum boat, 6 h.p. motor, paddles & life jackets; purchase		1,166.50
	Rental: 6 man Zodiac boat + 6 h.p. motor (standby basis)		100.00
15.	Food (fly-camp)		750.00
16.	Room and board, Andrew Lake Lodge camp		1,927.50
17.	Instrument rental:		
	Fluxgate magnetometer: 1 mo. @ \$150/mo.		150.00
	3 portable scintillometers: 2 for 1 mo. @ \$150/mo.		300.00
	1 for 2 wk. @ \$150/mo.		75.00
	X-ray diamond drill, rods and pump; Atlas Copco rock drill 1 month on standby basis		500.00
18.	Helicopter for airborne gamma ray spectrometer survey		
	Jet Ranger 206 B @ \$275/hour		
	Ferry: N. Battleford to Andrew Lake 4 hours		
	Survey: 10.2 hours (To July 20/76)		3,905.00
19.	Service flights:		
	4 Cessna 185 trips, 520 miles x \$0.90/mi.		468.00
	1 Single Otter trip, 120 miles x \$1.80/mi.		216.00
20.	Salaries: to July 20, 1976		
	██████████ 18 days x \$158/day	\$2,844.00	
	2 Prospectors: June 13 - July 20, incl. 38 days x 2 x \$75/day	5,700.00	
	2 Helpers: June 19 - July 20, incl. 32 days x 2 x \$50/day	3,200.00	11,744.00
		Sub-total	<u>\$31,032.80</u>
		Total	<u>\$45,481.60</u>

ESTIMATE OF EXPENSES ARISING FROM BELL J2A HELICOPTER ACCIDENT, JULY 8, 1976

1. Ferry time: Bannok Lake, Saskatchewan - Andrew Lake: 4.8 hours; Instrument test flight: 0.7 hours Survey flight: 0.8 hours	\$ 872.00
2. Turbo-Beaver flight; Andrew Lake to hospital @ Uranium City, 120 miles x \$1.35/mile	162.00
3. Fuel placement of 30 drums 80/87 av. gas, Uranium City to Andrew Lake; 3 Twin Otter trips: 360 mi. x \$2.25/mi.	810.00
4. Cessna 185 trip; Uranium City - Gunnar, return	32.00
5. Room and board, taxi and misc. - helicopter pilot and J. R. Allan, Uranium City, July 8 - 15	296.40
6. Damage to airborne system instrumentation, insurance deductible portion only	1,250.00
7. Re-installation of airborne system in Bell 206 B, Goldak Exploration Technology Ltd., 3 days @ \$200/day	600.00
8. Phone calls	<u>350.00</u>
Sub-total	\$ 4,372.40

ESTIMATE OF EXPENSES ARISING FROM EYE INJURY TO G. BEIERS, PROSPECTOR, JULY 16, 1976

1. Airfare, Andrew Lake - Uranium City to hospital: Canso, 120 mi. x \$2.25/mi.	\$ 270.00
2. Hotel, meals, taxi: G. Beiers & R. Allan	<u>46.25</u>
Sub-total	\$ <u>316.25</u>
TOTAL	<u>\$50,170.25</u>