MAR 19800006: NORTH EASTERN ALBERTA

Received date: Dec 31, 1980

Public release date: Jan 01, 1982

DISCLAIMER

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

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

Alberta

Alberta Mineral Assessment Reporting System

19800006

REPORT ON FIELD EXAMINATION OF THE QUARTZ MINERAL PERMITS, NORTH EASTERN ALBERTA

FOR

FARMERS CHEMICAL LTD.

BY

ROBERT WARD GEOLOGIST



INTRODUCTION

Farmers Chemical Ltd. holds for permit areas within the Quartz Mineral Permits of Alberta. The permits encompass 218,240 acres.

A two day field examination was undertaken by the writer in August 1980. Work consisted of general prospecting and ground radiometric checking of airborne radiometric anomalies. A McPhar TV-1A spectrometer was utilized in the field.

GEOLOGY

Outcropping is extensive in the area with a rough estimate being 50 to 60%.

The general geology of the area is granitic plutonic rocks in contact with felsic and mafic gneisses. Metasedimentary units are described in the regional geology although none were observed during field examination.

The granites observed were medium grained, red to white in colour with less than 10% mafics.

No uranium mineralization or even sulphides were discovered.

The background radiometrics varied from 4500 to 6000 cpm on the spectrometer. One granitic boulder train was discovered with background radiometrics, but no uranium mineralization or staining observed.

One anomalous area with radiometrics as high as 60,000 cpm was discovered, but the area was small and radiometrics very erratic. This area was checked in detail but the high radiometrics was only a local feature and attributed to high background within the granites. No mineralization was observed.

.. 2/

Fracturing within the granites and gneisses is extensive, although no well defined joint patterns or shearing was observed.

CONCLUSIONS

From the nature of the geology observed and the results of rock geochemistry assays on the samples collected, it has been concluded that anomalous airborne radiometrics were a result of local high background within the granites and an unusually high thorium content.

The highest U assay obtained was ll ppm and it should be noted that the Th/U ratio was as high as 100:1.

Respectfully submitted

Robert Ward, Geologist

RW/kj Calgary, Alberta October 29, 1980



 U/Th Highs (Airborne) 44
 × U/Th Anomalies
 (Individual Fet. Lines) 43 E. Jones Permit Area 19800006 473000m E. 74 20'111°30' 25'COPIES MAY BE OBTAINED FROM THE MAP DISTRIBUTION OFFICE DEPARTMENT OF ENERGY. MINES AND RESOURCES. OTTAWA. PRODUCED BY SURVEYS AND MAPPING BRANCH, DEPARTMENT OF ENERGY, MINES AND RESOURCES, OTTAWA, 1973. CONTOUR INTERVAL 50 FEET NORTH AMERICAN DATUM 1927 TRANSVERSE MERCATOR PROJECTION © CANADA COPYRIGHTS RESERVED 1973.





04				Military refer to t Référenc pour usa	users, his map as: e de la carte ge militaire:	SERIES A741 SÉI MAP 74 M/14 CAF EDITION 1 MCE ÉDITI
0' ROAD	LEGI S AND RELATED FEATURES	END	D - LÉGENDE ROUTES ET OUV	E /RAGES C	ONNEXES	
HARD SU	IRFACE, ALL WEATHER	S	SURFACE DURE, TOUTE	S SAISONS		
CART TR OR ROAD	ACK, WINTER ROAD 0 UNDER CONSTRUCTION	00	CHEMIN DE TERRE, D'HI DU CHEMIN EN CONSTR	VER RUCTION		
TRAIL, C	VT LINE. PORTAGE	S	SENTIER, PERCEE, POR	TAGE		
BRIDGE	r, SIDING, STATION, STOP	P	PONT	'ÈVITEMENT, G	ARE, ARRÉT	·······
SEAPLAN	NE BASE, ANCHORAGE	F	POINTS DE REPE	JILLAGE È RE		
HOUSE, E	SARN	Ń	AISON, GRANGE			······ •
POST OF	FICE	E	BUREAU DE POSTE			
TOWERS WELL: O	: FIRE, RADIO	T	OURS: FEU, RADIO PUITS: PÉTROLE, GAZ		••••••	
TANK: OI	L, GASOLINE, WATER	R	RÉSERVOIR: PÉTROLE, IGNE TÉLÉPHONIQUE .	ESSENCE, EAU	J	
POWER	TRANSMISSION LINE	L	IGNE DE TRANSPORT D	D'ÉNERGIE		
CUTTING	EMBANKMENT	T	RANCHÉE, REMBLAL.			
BOUN	DARIES AND SURVEY CONTROL TIONAL PROVINCIAL. BOUNDARY MONUMENT	F	RONTIÈRES ET	POINTS D	E RÉFÉRE	NCES
COUNTY	DISTRICT	C	COMTÉ, DISTRICT	PENTÉ N ARPENTÉ	•••••	
TOWNSH	- UNSURVEYED IP. DLS - SURVEYED UNSURVEYED - SECTION CORNERS	С	ANTON, DLS - ARPENTE - SECTION	NON ARPENT	E	
MUNICIP	ALITY	N	NUNICIPALITÉ	RC, ETC		······
HORIZON	ITAL SURVEY POINT	R	REPÈRE PLANIMÉTRIQU	E		
SPOT EL		P	COINT COTÉ, ÉLÉVATION			, 390 , 7: S
STREAM	SHORELINE: INDEFINITE	C	COURS D'EAU, RIVE; IM	PRÉCISE	CONNERE	
LAKE, IN	TERMITTENT LAKE	L	AC, LAC INTERMITTEN	т		
INUNDAT MARSH.	ED LAND	T	ERRAIN INONDÉ	DISÉE)		
DRY RIVE SAND: AE	ER BED WITH CHANNELS	L	IT DE COURS D'EAU TA	NS L'EAU	AUX	
STRING E	30G PONDS. POLYGONS	N T	ARÉCAGES EN ENFILA OUNDRA: ÉTANGS, SOL	DE	xxr	(TP) [PG
RAPIDS, FORESH	FALLS, RAPIDS	R	APIDES, CHUTES, RAPI	DES	·····	
ROCK		R	BOCHE			DAM
WHARF .		Q	QUAI			R.
RELIE	F FEATURES	F				
APPROX	IMATE CONTOUR	C	COURBE DE NIVEAU API	PROXIMATIF		
ESKER .	SION	E	SKER			······ > > > > > > > > > > > > > > > >
SAND, SA	AND DUNES	S	ABLE, DUNES			(SAND)
PALSA B	OG	R	RÉGION BOISÉE			
CLEAREI	PHOTOGRAPHY PHOTOGRAPHIE	R	REGION DEBOISEE			
	COMPILATION RESTIT	IOITU	N			
	A-15096 09/55	83	GRID ZO DÉS	DNE DESIGNATION:	100,000 M. SQUAR IDENTIFICATIO	RE IDENTIFICATION ON DU CARRÉ
	75		DU	LA ZONE QUADRILLAGE :		,000 m.
	A-15151 08/5	5 65		12 V	V	В
	8 A-15094 09/55 A-15096 A-15096 22 09/5	5 20				5
	A-15164 09/55	0		EXAMP	LE OF METHOD USED	0 METRES
	28 28 140-15	5162		EXEMPLE DE POUR FIXER DES	E LA MÉTHODE EMPL REPÈRES À 100 MÈT	OYÉE RES PRÈS
	<u>A-15162</u> 08/55 23 17	55 13	3	99	+ +	-
				98		-
				9/		
	REVISION RÉ	VISIO	N	95	96 97 9	8
			REF POIL	ERENCE POINT NT DE REPÈRE	HURCH — ÉGLI	SE (as above) (ci-dessus)
			im LONG du	mediately to left o	f point: le chiffre de la ligne édiatement à gauch	e
			du Es	timate tenths of a	square from	97
			Es	timer le nombre de tre cette ligne et le	e dixièmes du carré e repère en directior	nest: <u>5</u> 975
			NORT	HING: Read number mediately below p	er on grid line oint:	
			LATIT du du	UDE NORD: Noter quadrillage immé repère:	le chiffre de la ligne idiatement en-desso	98
			Es thi Es	timate tenths of a is line northward t timer le nombre de	square from o point: e dixièmes du carré	
			en GRID EXEM	REFERENCE SAM	PLE LAGE	984 975984
			Nea La pri	rest similar grid refe ochaine référence simi	rence 100,000 metres laire est à 100,000 mètre	(about 63 miles) es (environ 63 milles)
				ONE THO	DUSAND MET	RE
			U	NIVERSAL TRAN	ZONE 12	METDES
	75 D/4 75 D/3 75 D	/2	QI	UNIVERSEL TRA	NSVERSE DE ME	METRES
			-	73 MACNETIC	REARING	7' (485 mile)
	74 M/13 74 M/14 74 M	/15	ANNUA	of GRID NORTH	CREASING 4.5	(400 mms)
			GRID N for cen	IORTH is 0°13' (tre of map.	(4 mils) WEST of	TRUENORTH
	74 14/10 74 14/11 74 14	/10	Le REF EST	PÈRE MAGNÉTI	QUE en 1973 est QUADRILLAGE	à 27°17′ (485 mils)
	74 WI/12 74 WI/11 74 WI	/10	VARIA		E DÉCROISSAN	ITE 4.5'
	and a		NORD	GÉOGRAPHIQU	JE au centre de la	a carte.
	12					

111°00'

CARTER MAPPING LIMITED 510-5 Street S.W., Calgary, Alberta 72P 1V6 264-1230 T2P 1V6



TRANSVERSE MERCATOR PROJECTION

CANADA

EDITION 1 74 M/2



				Military users, refer to this map a Référence de la ca pour usage militai	as: rte re: eDITION 1 MCE ÉDITION
5000m. E.I	- 59°15′		LEGEND -	LÉGENDE	
T	656	ROADS AND RELATED FEATURES HARD SURFACE, ALL WEATHER	ROL SURF	ACE DURE, TOUTES SAISONS	LS
2	7000r	LOOSE SURFACE	GRAV	IER IN DE TERRE, D'HIVER	
2 h	n. N.	OR ROAD UNDER CONSTRUCTION	OU CH SENTI	IEMIN EN CONSTRUCTION ER, PERCÉE, PORTAGE	
4.28	~~	BUILT-UP AREA	AGGL	OMÉRATION IN DE FER, VOIE D'ÉVITEMENT, GARE, ARRÊ	T
505	66	BRIDGE	PONT	OAÉDORORT MOUILLAGE	
Mr C		LANDMARK FEATURES	POIN	NTS DE REPÈRE	
200	65	HOUSE, BARN	MAISC	DN, GRANGE	······ · · · · · · · · · · · · · · · ·
252		POST OFFICE	BURE	AU DE POSTE	₽ ⊕
2		TOWERS: FIRE, RADIO		S: FEU, RADIO	•••••••
R	64	WELL: OIL, GAS	PUITS RÉSEI	: PETROLE, GAZ RVOIR: PÉTROLE, ESSENCE, EAU	•
50		TELEPHONE LINE	LIGNE	TÉLÉPHONIQUE	······································
13			MINE		*
1 th	63	GRAVEL PIT	FOSSI	E DE GRAVIER	
(wo		INTERNATIONAL. PROVINCIAL.	ROL FRO	NATIONALE. PROVINCIALE. BORNE FRONTIÈRE	RENCES
12 ch	62	COUNTY. DISTRICT	сомт		
2 Color		TOWNSHIP, PARISH - SURVEYED - UNSURVEYED TOWNSHIP, DLS - SURVEYED, UNSURVEYED	CANT	- NON ARPENTÉ	
2n		- SECTION CORNERS	MUNIC	- SECTION ANGULAIRE	+ + + +
10	61	INDIAN RESERVE. PARK. ETC	RÉSER	RVE INDIENNE, PARC, ETC	······
22/°		BENCH MARK	REPÈR	RE DE NIVELLEMENT	BM 965
R	60	DRAINAGE AND RELATED FEATUR	RES DRA	INAGE ET OUVRAGES CONNE	XES
605		STREAM, SHORELINE: INDEFINITE	COUR	S D'EAU, RIVE; IMPRÉCISE	
Two		LAKE, INTERMITTENT LAKE	LAC, L TERRA	AC INTERMITTENT	
MC	59	MARSH, SWAMP (WOODED)	MARA	IS, MARÉCAGE (BOISÉE)	
iE	10'	SAND: ABOVE, IN WATER	SABLE	E: AU DESSUS, DANS L'EAU	
8:00		STRING BOG	MARÉ	GAGES EN ENFILADE	(TP) (PG)
20	58	RAPIDS, FALLS, RAPIDS	RAPID	ES. CHUTES, RAPIDES	- FF -
120		ROCK	ROCH	E	DAM +
26	57	WHARF	QUAL.		Ray
0		RELIEF FEATURES	FOSSE	EF	
000		CONTOURS	COURI	BE DE NIVEAU BE DE NIVEAU APPROXIMATIF	
A.	56	DEPRESSION	COURI	BE DE CUVETTE	
PC	5	PINGO	PINGO		*125 *
2°C	EE	SAND, SAND DUNES	ABLE		PB
Swy	55	WOODED AREA	RÉGIO RÉGIO	N BOISÉE	
No?	Z	PHOTOGRAPHY PHOTO	GRAPHIE		
	54	COMPILATION	RESTITUTION		
A		0 A 16166	3/55	GRID ZONE DESIGNATION: 100,000 M. S DÉSIGNATION DE	QUARE IDENTIFICATION CATION DU CARRÉ E 100,000 M.
		1/ 94-10100 0	9	DU QUADRILLAGE :	
	- 53	0 132 A-15165 9/5	55 124	12V	WA
			5		
	- 52	73 A-15163 9/5	80	EXAMPLE OF METHOD	USED
		72 A-15157 8	5/55 /9	TO GIVE A REFERENCE TO NEARE EXEMPLE DE LA MÉTHODE E POUR FIXER DES REPÈRES À 100	IST 100 METRES EMPLOYÉE D MÈTRES PRÈS
		8/5	55 81	99	
	- 51	88 A-15157 075		98	
				97	
				95 96 97	98
	- 50	REVISION	RÉVISION	REFERENCE POINT	GLISE (as above)
				POINT DE REPÈRE CHURCH – É EASTING: Read number on grid line	(ci-dessus)
	° 05' 49			immediately to left of point: LONGITUDE EST: Noter le chiffre de la du quadrillage immédiatement à g	ligne auche
				du repère: Estimate tenths of a square from	97
				Estimer le nombre de dixièmes du c entre cette ligne et le repère en dire	ection est: 5
	- 48			NORTHING: Read number on grid line	975
				LATITUDE NORD: Noter le chiffre de la du quadrillage immédiatement en-	dessous
				Estimate tenths of a square from this line northward to point:	30
	- 47			Estimer le nombre de dixièmes du c entre cette ligne et le repère en diri	carré ection nord: 4
				GKID REFERENCE SAMPLE EXEMPLE DU QUADRILLAGE Nearest similar grid reference 100,000 n	975984 metres (about 63 miles)
	46			La prochaine référence similaire est à 100.000	0 mètres (environ 63 milles)
				ONE THOUSAND I	METRE
				ZONE 12	
	45	74 M/6 74 M/7	74 M/8	UNIVERSEL TRANSVERSE DE	E MERCATOR
		74 M/3 74 M/2	74 M/1	The 1973 MAGNETIC BEARING is EAST of GRID NORTH.	25°55′ (461 mils)
	- 44			ANNUAL CHANGE DECREASING GRID NORTH is 0°13' (4 mils) EAS	4.1' ST of TRUE NORTH
				Le REPÈRE MAGNÉTIOUF en 1973	3 est à 25°55′ (461 mils)
	- 43	74 L/14 74 L/15	74 L/16	EST du NORD DU QUADRILLAG	GE. SSANTE 4.1'
				NORD DU QUADRILLAGE est 0°13 NORD GÉOGRAPHIQUE au centre	3' (4 mils) à l'est du de la carte.
	42		CONVERSION SO	CALE FOR ELEVATIONS ERSION DES ÉLÉVATIONS	
		Metres 30 20 10 0 50			300 Mètres
	6541	reet 100 50 0 100	200 300 40		1000 FIGUD
	000m.				
	Z				
	- 59°0	0'			







4000 Mètres

1000

 Yards 1000
 0
 1000
 2000
 3000
 4000 Verges

2000

3000

4990

							Military refer to	users, this map as:	SERIES	A 741	SÉRI
6 .E. 1							Référence pour usa	e de la carte ge militaire:	EDITION	74 M/6 1 MCE	ÉDITIO
200	≻59°30	BOADS A		DEFATURES	LEGEN	ID - LÉGEND ROUTES ET OU	E VRAGES C	ONNEXES			
2 Store	5000r	HARD SURFA	CE, ALL WEATHER	R		SURFACE DURE, TOUT	ES SAISONS		·····-)
5000	n. N.	CART TRACK, OR ROAD UNI	WINTER ROAD	ON		CHEMIN DE TERRE, D'H OU CHEMIN EN CONST	HIVER RUCTION				
	94	TRAIL, CUT L	INE. PORTAGE			SENTIER, PERCÉE, POI	RTAGE	••••••			
0000		RAILWAY, SID	DING, STATION, ST	OP		CHEMIN DE FER, VOIE PONT	D'ÉVITEMENT, (GARE, ARRÊT	······-	++++	
		SEAPLANE BA	ASE, ANCHORAGE	ES		HYDROAÉROPORT, MC POINTS DE REP	ÈRE			đ) j
200	93	HOUSE, BARN CHURCH, SCH	I			MAISON, GRANGE ÉGLISE, ÉCOLE					
Sec		POST OFFICE	SITE			BUREAU DE POSTE					•
and	92	TOWERS: FIR	E, RADIO			TOURS: FEU, RADIO PUITS: PÉTROLE, GAZ .					
2000		TANK: OIL, GA	SOLINE, WATER .			RÉSERVOIR: PÉTROLE LIGNE TÉLÉPHONIQUE	, ESSENCE, EAU	J	······		
N. W. G	91	POWER TRAN	SMISSION LINE			LIGNE DE TRANSPORT	D'ÉNERGIE				
THE COL		CUTTING, EMP	BANKMENT			TRANCHÉE, REMBLAI . FOSSE DE GRAVIER		·····			1111111
0.00			RIES AND SU	JRVEY CONT	ROL	FRONTIÈRES ET	POINTS D	ERÉFÉRE	NCES		
W	90	COUNTY, DIST	BOUNDARY M	ONUMENT		BOR COMTÉ, DISTRICT	NE FRONTIÈRE		·····		
		TOWNSHIP, PA	ARISH - SURVEYED	D YED NSURVEYED		CANTON, PAROISSE - AI - N	RPENTÉ ON ARPENTÉ	F (F)			YED
	89	MUNICIPALITY	- SECTION COR	NERS		- SECTION	ANGULAIRE			+ +	+ +
0		INDIAN RESER	SURVEY POINT			RÉSERVE INDIENNE, PA REPÈRE PLANIMÉTRIQU	RC, ETC		<u> </u>		
2±	99	BENCH MARK	ION, ELEVATION A	PPROXIMATE		REPÈRE DE NIVELLEME POINT COTÉ, ÉLÉVATIO	NT N APPROXIMAT	IVE		BM 9	. 721±
w	00	DRAINAG STREAM, SHO	E AND RELA	TED FEATUR	RES	DRAINAGE ET O	UVRAGES	CONNEXE	S		
00		DIRECTION OF	FLOW			DIRECTION DU COURAN LAC, LAC INTERMITTEN	VT VT			~	alle
3.5	87	INUNDATED L	AND			TERRAIN INONDÉ MARAIS, MARECAGE (B	OISÉE)			J.C.	
0	051	DRY RIVER BE SAND: ABOVE	D WITH CHANNEL	S		LIT DE COURS D'EAU TA SABLE: AU DESSUS, DA	ARI AVEC CHEN	AUX			
9±	86 25'	STRING BOG . TUNDRA: PON	DS. POLYGONS			MARÉCAGES EN ENFIL/ TOUNDRA: ÉTANGS, SO	ADE	JX		TP	PG
-i0 0		RAPIDS, FALLS	S, RAPIDS			RAPIDES, CHUTES, RAP ESTRANS	IDES		······ _#	FE	i lind
0000	or	ROCK				ROCHE				DAM	+
	65	WHARF				QUAI				-Cr	-
1		RELIEF FI	EATURES						د ()		+
rei	84		E CONTOUR			COURBE DE NIVEAU AP	PROXIMATIF	••••••			
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		ESKER				ESKER		•••••	····· >	>>> *1	>>
~ f	83	SAND, SAND D	OUNES			SABLE, DUNES				SAND	111
		WOODED ARE	Δ			RÉGION BOISÉE				E "W"	
no			PHOTOGR	арну рнотс	GRAPHIE						
т Т	82		COMPILATION		RESTITUTIO	IN					
			A-15	166 09	0/55	GRID ZO DÉS	ONE DESIGNATION:	100,000 M. SQUARI IDENTIFICATIO DE 100,	E IDENTIFICA N DU CARRÉ 000 M.	TION	
$\sim$	81		A-151	154 08	78	DU	QUADRILLAGE :			-	
man			45	09/55	52		12V		5		
	80		-0 <u>A-15</u> 7	100 00/00	39 3	8					
3 50				160 09	0/55 65	-	EXAMPL TO GIVE A REFERE EXEMPLE DE	E OF METHOD USED NCE TO NEAREST 100 LA MÉTHODE EMPLO	) METRES YÉE		
S W	70		A-151	163 09	/55				KES PRES		
3 00	13		27		20		98				
SP 1							97	Ē	_		
S N	78		REVISION		RÉVISIO	IN	95	96 97 98	-		
Sent N		[	074			REFI	ERENCE POINT CH	URCH — ÉGLIS	E (as above (ci-dessu	) s)	
C. T	20'		VBB-2678			EASTI	NG: Read number of mediately to left of	n grid line point:		-	
33			06/66			du du	quadrillage immér repère:	diatement à gauche	97		
23	76		\$82			Est	is line eastward to timer le nombre de	quare from point: dixièmes du carré repère en direction	est 5		
al al						NORT	HING: Read numbe	on grid line	975		
000						LATIT du	UDE NORD: Noter la quadrillage imméd renère:	e chiffre de la ligne liatement en-dessou	IS 98		
Jag .	75					Est	timate tenths of a s s line northward to	quare from point: divièmes du corré			
Str. S	Tp 118	l	1			GRID	THE REFERENCE SAMP	repère en direction	nord: 4 984 975984	-	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	74					Near La pro	est similar grid refer ochaine référence simila	ence 100,000 metres ( ire est à 100,000 mètres	(about 63 mile (environ 63 mill	s) les)	
2							ONE THO	USAND MET	RF		
5-	72	[1			NU	VIVERSAL TRANS	ONE 12	OR GRID		
-	15		74 M/12	74 M/11	74 M/10	QL	JADRILLAGE	DE MILLE N ISVERSE DE MER	RCATOR		
	4. 10								(475		
2°C	72		74 M/5	74 M/6	74 M/7	EAST C	GRID NORTH.	CREASING 4.3'	(475 mils)		
2 9		-				GRID N for cent	ORTH is 0°13' (4 tre of map.	mils) WEST of	TRUE NOR	тн	
25	71		74 M/4	74 M/3	74 M/2	Le REP EST	ÈRE MAGNÉTIC du NORD DU QI	UE en 1973 est à JADRILLAGE.	26°42′ (47)	ā mils)	
Si						VARIAT	TION ANNUELLE	E DÉCROISSANT GE est 0°13' (4 m	E 4.3' ils) à l'oues	at du	
C Stat						NORD	GEOGRAPHIQU	E au centre de la	carte.		
300	970				CONVERSIO	ON SCALE FOR ELEV	ATIONS				
Rivo	650	N	Metres 30 20 10				200	250	300	Mètres	
J.J.	0006		reet 100 50	0 100	200 300	400 500 6	. 700	800 90	0 100	o rieds	
32	m.N.										
m	r 68										
n.E	\$−59°15	5'									
111	°00′										
ÉS ET DE L	A									CARTE	ER M
NERGIE, DE	S									010.0	IC

MAPPING LIMITED eet S.W., Calgary, Alberta 264-1230 T2P 1V6

74 M/6 EDITION 1





STRUCTURAL FEATURES Fault, major - regional. mm Fault, minor.. ____ Fault or strong fracture... _____ Fracture, minor - mainly tension. ____ ma Fracture, minor - irregular orientation... Fracture, minor - closely spaced... 17.1 Shear zone... Folded sedimentary or metamorphic structures...

Wallellan

(Call

1

SURFICIAL FEATURES Sand dunes...

Glacial flutings ...

Aerial photographic interpretation by J. D. Godfrey.

MAP 25 19800006 AERIAL PHOTOGRAPHIC INTERPRETATION OF PRECAMBRIAN STRUCTURES NORTH OF LAKE ATHABASCA

ALBERTA

WEST OF FOURTH MERIDIAN

Scale I Inch to 2 Miles. 2 4 6





Cartography taken from Department of Lands and Forests, Alberta, Aerial Survey Sheets No. 74M. and north half of 74L—1951.

Magnetic declination taken from Canada Sheets No. 74M. and north half of 74L, National Topographic Series, Department of Mines and Technical Surveys, Canada—1955.

U/Th Highs
 X U/Th Anomalies
 (Individual Fet. Lines)





499000m. E

111°00′

						Military users, refer to this map as: Référence de la carte pour usage militaire:	SERIES A 741 SÉRIE MAP 74 M/11 CARTE EDITION 1 MCE ÉDITION
n.E.	≻59°45	,		LEGEN	ID - LÉGENDE		
5200	23	ROADS AND RELATE HARD SURFACE, ALL WEATHER	D FEATURES	5	ROUTES ET OUVR SURFACE DURE, TOUTES S	AGES CONNEXES	(12)
2500	0	LOOSE SURFACE			GRAVIER	R	
5300	6220	OR ROAD UNDER CONSTRUCTION TRAIL, CUT LINE, PORTAGE	ON		OU CHEMIN EN CONSTRUC SENTIER, PERCÉE, PORTAG	TION	······
1 5.02	Dom. I	BUILT-UP AREA	OP		AGGLOMÉRATION	ITEMENT, GARE, ARRÊT	
30.0	~	BRIDGE			PONT	AGE	
Rof.	21		ES		POINTS DE REPÈR	E	
Sol		HOUSE, BARN			ÉGLISE, ÉCOLE	•••••••••••••••••••••••••••••••••••••••	2 2
En -	20	POST OFFICE			BUREAU DE POSTE	•••••••	
200	20	TOWERS: FIRE, RADIO			TOURS: FEU, RADIO PUITS: PÉTROLE, GAZ		
22°23		TANK: OIL, GASOLINE, WATER .			RÉSERVOIR: PÉTROLE, ESS LIGNE TÉLÉPHONIQUE	SENCE, EAU	•
2000	19	POWER TRANSMISSION LINE			LIGNE DE TRANSPORT D'ÉM	NERGIE	······································
000		CUTTING, EMBANKMENT		•••••	TRANCHÉE, REMBLAI		······ *
Sel an	10	BOUNDARIES AND SU	RVEY CONT	ROL	FOSSE DE GRAVIER	DINTS DE RÉFÉREI	NCES
2850	18	INTERNATIONAL. PROVINCIAL. BOUNDARY MO	ONUMENT		INTERNATIONALE, PROVINC BORNE F	RONTIÈRE	······
0000		TOWNSHIP, PARISH - SURVEYED) YED		COMTE, DISTRICT CANTON, PAROISSE - ARPEN - NON A	NTÉ RPENTÉ	UNSURVEYED
	17	TOWNSHIP. DLS - SURVEYED. UN - SECTION COR	NSURVEYED		CANTON, DLS - ARPENTÉ NO - SECTION AND		\oplus
5750055		MUNICIPALITY			MUNICIPALITÉ RÉSERVE INDIENNE, PARC,	ETC	······
sh		HORIZONTAL SURVEY POINT			REPÈRE PLANIMÉTRIQUE		Ā
2 Print	16	SPOT ELEVATION, ELEVATION A		000	POINT COTÉ, ÉLÉVATION AP		BM 965
000		STREAM, SHORELINE: INDEFINIT			COURS D'EAU, RIVE; IMPRÉ		
25058-	15	DIRECTION OF FLOW			DIRECTION DU COURANT		
1000		INUNDATED LAND			TERRAIN INONDÉ MARAIS, MARECAGE (BOISÉ	E)	
: [2m	101	DRY RIVER BED WITH CHANNELS	5		LIT DE COURS D'EAU TARI A	VEC CHENAUX	
00 2	40'	STRING BOG			MARÉCAGES EN ENFILADE .		(SB)
		RAPIDS, FALLS, RAPIDS			RAPIDES, CHUTES, RAPIDES	02190NAUX	····· +# - PG - 1
in the	13	FORESHORE FLATS		······	ROCHE		PAM +
5.00 8	10	DAM			BARRAGE	*******	
(A) ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °			******		FOSSÉ RELIEF	************************************	
° w °	12		••••••		COURBE DE NIVEAU	XIMATIF	
2		DEPRESSION			COURBE DE CUVETTE		
R.V	11	PINGO	*****		PINGO	*****	······ > > > > > > > > > > > > > > > >
22 gas		PALSA BOG	••••••	······	PALSE		()
- Lord		WOODED AREA		······	RÉGION BOISÉE		····· = "W_ = ==
	10	PHOTOGR	АРНҮ РНОТО	GRAPHIE			
199		COMPILATION		RESTITUTIO	N		
W	09	A-15	152 08/	/55	GRID ZONE D DÉSIGNAT LA ZO	ESIGNATION: 100,000 M. SQUARE IDENTIFICATION DNE DE 100,0	IDENTIFICATION I DU CARRÉ 300 M.
			152 08	/55	DU QUAD	RILLAGE :	
1		180		173	12		66
~ ~	08	A-15 35	156 08	3/55 28			
~		A-151	59 0	8/55	TO G	EXAMPLE OF METHOD USED	METRES
2°°	07	50		57	POU	R FIXER DES REPÈRES À 100 MÈTR	ES PRÈS
(A)		151	50 0	158	99		-
0 950-					98		
0001	06				97		
W OC		REVISION		RÉVISIO	N	95 96 97 98	
00	05				POINT DE	REPÊRE CHURCH — ÉGLISE	(as above) (ci-dessus)
(生)	¢ 35′				LONGITUDE	itely to left of point: EST: Noter le chiffre de la ligne	
300					du quad du repèr Estimate	e: e: e tenths of a square from	97
J. S. C.	04	755			this line Estimer entre cel	eastward to point: le nombre de dixièmes du carré tte ligne et le repère en direction e	st: 5
	2	VRR			NORTHING:	Read number on grid line tely below point :	312
W	03	2678			LATITUDE M du quad du repèr	NORD: Noter le chiffre de la ligne rillage immédiatement en-dessou e:	s 98
520		/66			Estimate this line	e tenths of a square from northward to point:	
m a		- Υω			entre ce GRID REFE	tte ligne et le repère en direction r RENCE SAMPLE	984
20000	02				EXEMPLE D Nearest sin La prochaine	nilar grid reference 100,000 metres (référence similaire est à 100,000 mètres	about 63 miles) (environ 63 milles)
Car I							
2000	= 01				UNIVER	AND THOUSAND METR	CR GRID
7:4-		74 M/13	74 M/14	74 M/15	QUAD	RILLAGE DE MILLE N	IÈTRES
· Ceso					UNIVE	THOSE THOMSVERSE UP MER	
	6600		74.14	744444	The 1973 M/ EAST of GR	AGNETIC BEARING is 27°00'	(480 mils)
0 00	c	/4 M/12	74 M/11	74 M/10	ANNUAL CH	HANGE DECREASING 4.4'	BUENORTH
w	- 99				for centre of	fmap.	
C900		74 M/5	74 M/6	74 M/7	Le REPÈRE EST du N	MAGNÉTIQUE en 1973 est à IORD DU QUADRILLAGE.	27°00' (480 mils) E 4 4'
					NORD DU Q	UADRILLAGE est 0°13' (4 mi GRAPHIQUE au centre de la	ls) à l'ouest du carte.
	98				Hone ded		
141 000 000	104			CONVERSIO	ON SCALE FOR ELEVATI	ONS ATIONS	
2	6597	Metres 30 20 10	0 50	100		200 250	300 Mètres
0:0:00 is	000m.	Feet 100 50	0 100	200 300	400 500 600	700 800 90	C TOUL FIEUS
3 Dee	Z						
1-" \1/							
J.B.	96						

CARTER MAPPING LIMITED 510-5 Street S.W., Calgary, Alberta T2P 1V6 264-1230

74 M/11 EDITION 1





WEEKE

LAKE

			Military users, refer to this map as: Référence de la carte pour usage militaire:	SERIES MAP EDITION	A741 74 M/9 1 MCE	SÉRIE CARTE ÉDITION
- 59°45′	LEGI	END - LÉGENDE				
	ROADS AND RELATED FEATURES	ROUTES ET OUVE	AGES CONNEXES			
	HARD SURFACE, ALL WEATHER	SURFACE DURE, TOUTES	SAISONS		(12)
23	LOOSE SURFACE	GRAVIER				
	CART TRACK, WINTER ROAD	CHEMIN DE TERRE, D'HIVE	R			
		SENTIER, PERCÉE, PORTA	GE			
662		AGGLOMÉRATION			11. 	
20	BAILWAY SIDING STATION STOP	CHEMIN DE FER, VOIE D'É	VITEMENT, GARE, ARRÊT			-
000	BRIDGE	PONT				1
Z	SEAPLANE BASE, ANCHORAGE	HYDROAÉROPORT, MOUIL	LAGE		6	DJ
	LANDMARK FEATURES	POINTS DE REPÈF	RE			
	HOUSE, BARN	MAISON, GRANGE				
21	CHURCH, SCHOOL	ÉGLISE, ÉCOLE				\$
	POST OFFICE	BUREAU DE POSTE				-
	HISTORICAL SITE	LIEU HISTORIQUE				4
	TOWERS: FIRE, RADIO	TOURS: FEU, RADIO				
20	WELL: OIL, GAS	PUITS: PETROLE, GAZ		******		
	TANK: OIL, GASOLINE, WATER	RESERVOIR: PETROLE, ES	SSENCE, EAU			
	TELEPHONE LINE		NERGIE			
	POWER TRANSMISSION LINE	MINE			-11	3
10		TRANCHÉE, REMBLAI				
19	COTTING, EMBANNMENT	FOSSE DE GRAVIER				GF
	BOUNDABLES AND SUBVEY CONTROL	FRONTIÈRES ET P	OINTS DE RÉFÉREI	NCES		
	INTERNATIONAL PROVINCIAL. BOUNDARY MONUMENT	INTERNATIONALE. PROVIN BORNE	ICIALE. FRONTIÈRE			
18	COUNTY. DISTRICT	COMTÉ, DISTRICT				
	TOWNSHIP. PARISH - SURVEYED	CANTON, PAROISSE - ARP	ENTÉ ARPENTÉ		UNSURY	VEYED
	TOWNSHIP. DLS - SURVEYED UNSURVEYED	CANTON, DLS - ARPENTE I - SECTION A	NON ARPENTE	+ + + •	+++++	++++
	MUNICIPALITY	MUNICIPALITÉ		· · · · · · · · ·		
17	INDIAN RESERVE, PARK, ETC	RÉSERVE INDIENNE, PARS	2, ETC	=	_:_	- :
	HORIZONTAL SURVEY POINT	REPÈRE PLANIMÉTRIQUE				4
	BENCH MARK	REPÈRE DE NIVELLEMENT	ſ		BM	1965 —
	SPOT ELEVATION, ELEVATION APPROXIMATE	POINT COTÉ, ÉLÉVATION A	APPROXIMATIVE		. 390	. 721
16	DRAINAGE AND RELATED FEATURES	DRAINAGE ET OU	VRAGES CONNEXE	S		
	STREAM, SHORELINE: INDEFINITE	COURS D'EAU, RIVE; IMPP	RÉCISE		~	
	DIRECTION OF FLOW	DIRECTION DU COURANT	***********************************		5	THE
	LAKE, INTERMITTENT LAKE	LAC, LAC INTERMITTENT			(HE)	-1215
	INUNDATED LAND		ećc)			
15	MARSH, SWAMP (WOODED)	MARAIS, MARECAGE (BOI	SEE)			- Z
	DRY RIVER BED WITH CHANNELS		SI 'FAII	TE3	NEH COLOR	SUTION TO SUTION
40'	SAND: ABOVE, IN WATER	MARÉCAGES EN ENFILAD)E			SB)
	STRING BOG	TOUNDRA: ÉTANGS, SOLS	POLYGONAUX		(TP)	PG
14		RAPIDES, CHUTES, RAPID	ES		+++	1
		ESTRANS			F	F
	BOCK	ROCHE				
	DAM	BARRAGE			DAN	1
12	WHARF.	QUAI			R	
15	DITCH	FOSSÉ			1	1
	RELIEF FEATURES	RELIEF				
	CONTOURS	COURBE DE NIVEAU				
	APPROXIMATE CONTOUR	COURBE DE NIVEAU APP	ROXIMATIF			
12	DEPRESSION	COURBE DE CUVETTE			C	
	ESKER	ESKER			> > >	>>>>
	PINGO	PINGO			1 SA	ND)
	SAND, SAND DUNES	SABLE, DUNES				B
11	PALSA BOG	PALSE			E	
	WOODED AREA	REGION BOISEE				
		BEISH IN LIEBUISEE			- P	

RESTITUTION

158

12

74

RÉVISION

174

9/55 08<u>A-15163</u> 9/55

8/55

8/55

8/55

74 M/15 74 M/16 74 N/13

74 M/10 74 M/9 74 N/12

74 M/7 74 M/8 74 N/5

COMPLATION

154 8/55 156 A-15152

A-15156

A-15159

A-15160

164

19

REVISION

35'

A-15152 A-15156 8/55

GRID ZONE DESIGNATION: DÉSIGNATION DE LA ZONE DU QUADRILLAGE : 100,000 M. SQUARE IDENTIFICATION IDENTIFICATION DU CARRÉ DE 100,000 M. WB 12 V 66 WA



ONE THOUSAND METRE UNIVERSAL TRANSVERSE MERCATOR GRID ZONE 12 QUADRILLAGE DE MILLE MÈTRES UNIVERSEL TRANSVERSE DE MERCATOR

The 1972 MAGNETIC BEARING is 25°44' (457 mils) EAST of GRID NORTH. Le REPÈRE MAGNÉTIQUE en 1972 est à 25°44' (457 mils) EST du NORD DU QUADRILLAGE. GRID NORTH is 0°39' (12 mils) EAST of TRUE NORTH for centre of map: NORD DU QUADRILLAGE est 0°39' (12 mils) à l'est du NORD GÉOGRAPHIQUE au centre de la carte.

CONVERSION SCALE FOR ELEVATIONS ÉCHELLE DE CONVERSION DES ÉLÉVATIONS
 Metres
 30
 20
 250
 300
 Mètres

 Image: Second condition
 50
 100
 150
 200
 250
 300
 Mètres

 Feet
 100
 50
 300
 400
 500
 600
 700
 800
 900
 1000
 Pieds

- 59°30'

ÉTABLIE PAR LA DIRECTION DES LEVÉS ET DE LA CARTOGRAPHIE, MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES, OTTAWA, EN 1973.

CARTER MAPPING LIMITED 510-5 Street S.W., Calgary, Alberta 12P 1V6 264-1230 I2P 1V6

74 M/9 -B EDITION 1



LEG	END - LÉGENDE	
OADS AND RELATED FEATURES	ROUTES ET OUVRAGES CONNEXES	
ARD SURFACE; ALL WEATHER	SURFACE DURE, TOUTES SAISONS	
OOSE SURFACE	GRAVIER	
ART TRACK, WINTER ROAD, UNDER CONSTRUCTION	CHEMIN DE TERRE, D'HIVER, EN CONSTRUCTION	
RAIL, CUTLINE, PORTAGE	SENTIER, PERCÉE, PORTAGE	
UILT UP AREA	AGGLOMÉRATION	
AILWAY, SIDING, STATION, STOP	CHEMIN DE FER, VOIE D'ÉVITEMENT, GARE, ARRÊT	-+
RIDGE	PONT	(+) +
EAPLANE BASE, ANCHORAGE	HYDROAÉROPORT, MOUILLAGE	
ANDMARK FEATURES	POINTS DE REPÈRE	
OUSE, BARN	MAISON, GRANGE	
HURCH, SCHOOL	ÉGLISE, ÉCOLE	
OST OFFICE	BUREAU DE POSTE	• P
ISTORICAL SITE	LIEU HISTORIQUE	₩
OWERS: FIRE, RADIO	TOURS: FEU, RADIO	
VELL: OIL, GAS	PUITS: PÉTROLE, GAZ	0
ANK: OIL, GASOLINE, WATER	RÉSERVOIR: PÉTROLE, ESSENCE, EAU	•
ELEPHONE LINE	LIGNE TÉLÉPHONIQUE	
OWER TRANSMISSION LINE	LIGNE DE TRANSPORT D'ÉNERGIE	~~
11NE	MINE	~~~~
UTTING, EMBANKMENT	TRANCHÉE, REMBLAI	
RAVEL PIT	FOSSE DE GRAVIER	1228 91
BOUNDARIES AND CONTROL	FRONTIÈRES ET POINTS DE REFERENCES	
NTERNATIONAL, PROVINCIAL, BOUNDARY MONUMENT	INTERNATIONALE, PROVINCE, BORNE FRONTIÈRE	
COUNTY, DISTRICT	COMTÉ, DISTRICT	
OWNSHIP, PARISH, UNSURVEYED	. TOWNSHIP, PAROISSE, NON ARPENTÉ	
SECTION LINE	LIGNE DE SECTION	* * * + * *
MUNICIPALITY	MUNICIPALITÉ	
NDIAN RESERVE, PARK, ETC.	. RÉSERVE INDIENNE, PARC, ETC.	
HORIZONTAL CONTROL POINT	REPÈRE PLANIMÉTRIQUE	🛆
BENCH MARK	REPÈRE DE NIVELLEMENT	BM 965
SPOT ELEVATION, ELEVATION APPROXIMATE	. POINT COTÉ, ÉLÉVATION APPROXIMATIVE	• 390 •721 ±
DRAINAGE AND RELATED FEATURES	DRAINAGE ET OUVRAGES CONNEXES	
STREAM, SHORELINE: INDEFINITE	. COURS D'EAU, RIVE; IMPRÉCISE	
DIRECTION OF FLOW	DIRECTION DU COURANT	
LAKE; INTERMITTENT	LAC, INTERMITTENT	
INUNDATED, FLOODED LAND	TERRAIN INONDÉ	
MARSH OR SWAMP (WOODED)	MARAIS OU MARÉCAGE (BOISÉE)	
DRY RIVER BED WITH CHANNELS	LIT DE COURS D'EAU TARI AVEC CHENAUX	
SAND, ABOVE, IN WATER,	. SABLE, AU DESSUS, DANS L'EAU	
STRING BOG	. MARÉCAGES EN ENFILADE	SB)
TUNDRAPONDS, POLYGONS	TOUNDRA: ÉTANGS, SOLS POLYGONAUX	(TP) (PG)
RAPIDS	. RAPIDES	
FORESHORE FLATS	. ESTRANS	FF.
ROCK	ROCHE	+
DAM	BARRAGE	F
WHARF	QUAI	
DITCH	FOSSÉ	
RELIEF FEATURES	RELIEF	= 500 =
CONTOURS	COURBE DE NIVEAU	350
APPROXIMATE CONTOUR	COURBE DE NIVEAU APPROXIMATIF	== 100
DEPRESSION	COURBE DE CUVETTE	
ESKER	ESKER	>>>>
PINGO	PINGO	…張125 装
SAND, SAND DUNES	SABLE, DUNES	SAND
PALSA BOG	PALSE	PB
WOODED AREA	RÉGION BOISÉE	

CARTER MAPPING LIMITED 510 - 5th STREET S.W. CALGARY, ALBERTA T2P 1V6 PHONE 264-2515



Certains noms inscrits sur cette carte ne sont pas encore officiels. La Direction des levés et de la cartographie saurait gré au public de lui signaler corrections et additions.

74 M TION 3 ASE TAM TION 3 MCE (1967) RIES A 502
of U/The high from this ladionet
In Gover A STANDARD REFERENCE ON THIS SHEET TO MARREST 1000 METRES MPLE POINT CABIN Read latters dentifying 100,000 metres square in which the point less NAME STYLETION DATE VA To faile the to LEFT of point and read LARGE figures labeling the line either in the top or bottom margin, or on the line stell VA To faile BELOW Doorst and read LARGE figures labeling the line either in the left or right margin, or on the line stell Estimate tenths from god line to point 5_4 AMPLE REFERENCE VA 7654 If reporting beyond 18" in any direction, prefix Grid Zone Designation as: 12 VVA 7654
THOUSAND METRE TRANSVERSE MERCATOR GRID ZONE 12

FITZGERALD 74 M EDITION 3 (1967)



AIRBORNE GAMMA-RAY SPECTROMETRIC MAP

Airborne gamma-ray spectrometry data collected in Northeastern Alberta during the summers of 1970 and 1977, are presented:

- (1) as contour maps of the integral count, the potassium, equivalent uranium and equivalent thorium concentrations, and the eU/eTh, eU/K and eTh/K ratios; and
- (2) as stacked profiles of the seven radiometric parameters plotted for each of the 23 flight lines.

The airborne measurements were made using the high sensitivity G.S.C. spectrometer with detector volume of 50,000 ml, flown at a mean terrain clearance of 122 metres and 190 km/hr. East-west flight lines were at 5 km line spacing, and the numbered flight lines are plotted on each of the contour maps.

Potassium is measured directly from the 1.46 MeV gamma-ray photons emitted by potassium-40. whereas uranium and thorium are measured indirectly from gamma-ray photons emitted by daughter products in their decay chains. Uranium is monitored by means of gamma-ray photons at 1.76 MeV from bismuth-214, and thorium, from 2.62 MeV photons emitted by thallium-208. The energy windows used are as follows:

Total Count		0.41-2.81	MeV
Potassium	K-40	1.37-1.57	MeV
Uranium	Bi-214	1.66-1.86	MeV
Thorium	T1-208	2.41-2.81	MeV

Uranium, thorium and potassium counts were measured over 2.5-second intervals; integral counts over 0.5-second intervals. The data have been corrected for tackground, height variation and spectral scattering. The computer programs used to produce the contour maps and profiles are described by R.L. Grasty, 1972 "Airborne Gamma Spectrometry Data Processing Manual", G.S.C. Open File No. 109.

The values for the radioelement concentrations shown on the contour maps are "average surface concentrations", that is, an average of the area on the ground viewed by the spectrometer, an area which may contain varying amounts of outcrop, overburden and surface waters. As a result the concentrations as shown on the contoured maps are usually considerably lower than the concentrations in the bedrock. However, the radioelement distribution pattern shown by the contour maps reflects the distribution of the elements in the bedrock.

Factors for converting airborne measurements to element concentration were determined by relating the corrected airborne count rates over test strips in the Ottawa area to the known ground radioelement concentrations (R.L. Grasty, and B.W. Charbonneau, 1974, Gamma-Ray Spectrometer Calibration Facilities, G.S.C. Paper 74-1B, pp. 69-71).

The conversion factors used are approximately those listed below.

1 Count	Count	1 ur		B	170	c.p.s.	
	1%K		n	83	c.p.s.		
		l ppm	eU	21	9	c.p.s.	
		l ppm	eTh	×	7	c.p.s.	

Total count measurements are presented as units of radioelement concentration (url, as defined in International Atomic Energy Agency Technical Report Series No. 174.

In order to produce the contour maps, data along the flight lines were averaged over seventeen 2.5-second counting intervals (approximately 2.2 km) and the effect of background count rates over the lakes was removed. This degree of averaging or smoothing is selected in order to:

- (i) keep the smoothing to a minimum, i.e. have the smoothed values as close as possible to the original unsmoothed data, yet
- (ii) use sufficient smoothing to utilize all data along flight lines between grid points while making the contouring grid dimension along the flight lines as close as possible to the spacing between flight lines.

Compromise between (i) and (ii) results in a rectangular grid (approximately 5 km N-S and 2 km E-W) of data used for contouring. As a result of these compilation procedures, contours in some cases may be distorted in the direction perpendicular to the flight lines. This sort of imperfection is difficult to avoid in contouring data on widely spaced flight lines. It does not detract from the value of the map as the product of a reconnaissance survey, indicating the regional radioelement distribution pattern, but one should not attempt to use these contour maps for the precise location of exploration targets. More accurate locations of anomalies can be made using the data on the profiles.

This project was carried out according to the standard specifications of the Federal-Provincial Uranium Reconnaissance Program.

Airborne Gamma-Ray Spectrometry Survey 1970 & 1977

Resource Geophysics & Geochemistry Division Geological Survey of Canada Base map material supplied by Surveys and Mapping Branch Cartography by Geological Survey of Canada





