ASSESSMENT REPORT/PIKE RIVER PROPERTY

CLAIM #'S 4256172, 4218824, 4218825, 4218826, AND 4218827

PORCUPINE MINING DIVISION
TOWNSHIPS OF HECLA (G. 0889) AND KILMER (G. 3524)

76 CLAIM UNITS IN TOTAL

RECORDED: JANUARY 17, 2011.

SUBMITTED BY: GARY PEACOCK

JANUARY 15th , 2013.

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ABSTRACT- INTRODUCTION

THE HECLA-KILMER ALKALIC ROCK COMPLEX LIES WITHIN THE KAPUSKASING SUB-PROVINCE OF THE SUPERIOR PROVINCE OF THE CANADIAN SHIELD. THE AUTHOR (G. PEACOCK) WORKED FOR SELCO MINING CORP. IN THE EARLY 1980'S ON A MAJOR DIAMOND DRILL PROGRAM ACROSS THE JAMES BAY LOWLANDS. MAGNETIC ANOMALY (I-5-10) JUST 2.4 KM WEST OF THIS COMPLEX WAS DRILLED, WITH UP TO 19 MICRO DIAMONDS DISCOVERED FROM DRILL CORE. THE WRITER SINCE THEN RE-STAKED IT IN 1993 (CLAIM # 1196749) AND WAS ALWAYS INTERESTED IN THE HECLA KILMER COMPLEX AS A POTENTIAL FOR DIAMONDS.

ASSESSMENT RECORDS WERE FORWARDED TO THE WRITER FROM THE PORCUPINE MINING DIVISION IN TIMMINS #T1336, WHICH INCLUDED OLD DRILL LOGS FROM 1970 BY ASHLAND ELGIN WITH MAPS. ALSO AN O.G.S. STUDY, BY R.P. SAGE, FROM 1988, WAS SENT TO THE WRITER, WHO NOTICED IN THE D.D. LOG OF HOLE #70-3, THE ROCK TYPE DESCRIBED WAS AN "ALTERED OLIVINE PERIDOTITE WITH COARSE GRAINED FRACTIONS SIMILAR IN APPEARANCE OF "KIMBERLITE".

ALSO IN THE REPORT WERE INDICATIONS THAT THIS ALKALIC COMPLEX WAS ALSO ENRICHED IN RARE EARTHS (R. P. SAGE-PAGE 13-BOTTOM LINE). IT WAS DECIDED THAT THIS PROPERTY NEEDED MORE WORK AND WAS THEN STAKED BY THE WRITER AND HIS SON.

A TOTAL OF 76 CLAIM UNITS WERE RECORDED TO COVER THE GEOPHYSICAL EXPRESSSION OF APPROXIMATELY 20 KM SQUARED. (MAP 2307G, ODM-GSC-1964) AND CLAIMS WERE RECORDED JANUARY 17, 2011.

LOCATION AND ACCESS

THE CLAIMS LIE ON THE EAST SIDE OF PIKE RIVER, JUST SOUTH OF THE MATTAGAMI RIVER, IN HECLA AND KILMER TOWNSHIPS.

THE PROPERTY LIES 16 KM NORTH-EAST OF AN ACTIVE RAILWAY SIDING AT CORAL RAPIDS (ONTARIO NORTHLAND RAIL). AN OLD WINTER DRILL ROAD CONNECTS THE PROPERTY FROM THIS SIDING AND CAN BE SEEN FROM THE AIR. ACCESS TO THE PROPERTY IS BY HELICOPTER.

INFRASTRUCTURE IS EXCELLENT WITH RAIL AND YEAR ROUND ROADS TO THE SOUTH, WITH NO RIVER CROSSINGS(EASY TO BUILD A WINTER ROAD).

SEVERAL HYDRO-ELECTRICAL POWER STATIONS ARE ALSO CLOSE (15-20 KM).

PREVIOUS WORK

R.P. SAGE VISITED THE SITE BY HELICOPTER IN 1978. ASHLAND OIL AND REFINING CO. AND ELGIN PETROLEUM CORP. LTD. COMPLETED SIX DIAMOND DRILL HOLES (ONE LOST IN OVER-BURDEN) IN 1969-1970. DRILL HOLES WERE A-X CORE AND DRILLED BY BRADLEY BROTHERS LIMITED. ALL CORES WERE ABANDONED AT THE OLD CAMP SITE.

PHYSIOGRAPHY

MOSTLY LOW SWAMPY GROUND WITH NO OUTCROP.

CORE TRIP TO PIKE RIVER

OCT 1 & 2	MAKE UP PACKAGE OF OLD DRILL LOGS, G.P.S. POINTS, MAPS, SAMPLE BAGS, SCALES, GRUB-HOE, CHAIN SAW, AXES, FLAGGING TAPE, CLOTHES, ETC... FOR TRIP AND WEIGH GEAR FOR HELICOPTER CARGO (150 LBS)	
	G. PEACOCK TIME 2DAYS ----------	$ 800.00
OCT. 3	DRIVE TO COCHRANE ON. 725 KM + 20 KM (THUNDER BAY TO MY HOME)	
	745 KM @ $ 0.50/ KM ----------	$ 372.50
	`G. PEACOCK TIME ----------	400.00
	CHARLES KING TIME(ON HELICOPTER PASSENGER SHEET) ----------	250.00
	CHIMO MOTEL----------	85.88
	SUPPER FOR 2 PEOPLE----------	11.87
OCT. 4	BREAKFAST FOR 2 PEOPLE----------	10.35
	FLY TO PIKE RIVER PROPERTY AND LOCATE OLD CORE PILE.	
	G. PEACOCK TIME----------	400.00
	C. KING TIME----------	250.00
	SAMPLE CORES AND RETURN TO COCHRANE WITH CORE SAMPLES.	
-	PAYMENT TO EXPEDITION HELICOPTERS	3,000.00
	ADDITIONAL HELICOPTER COSTS----------	835.02
	DRIVE TO LONGLAC RAIN/SNOW MIX.	
	MOTEL IN LONGLAC.	88.14
OCT. 5	TRAVEL TO THUNDER BAY, DROP-OFF CHARLES KING & DRI VE HOME.	
	745 KM. @ $0.50/KM----------	372.50
	G. PEACOCK TIME----------	400.00
	C. KING TIME----------	250.00
	TOTAL FOR TRIP	$7, 526.26
	RECEIPTS ATTACHED TO APPENDIX.	

FINDINGS FROM SITE VISIT

THE OLD CAMPSITE (WHICH WAS COMPLETELY GROWN IN), WAS LOCATED BY GROUND SEARCH. FINALLY THE ABANDONED CORE PILE WAS FOUND, WHERE THE OLD WINTER ROAD FROM CORAL RAPIDS INTERSECTED THE CAMPSITE. (MANY THANKS TO THE PILOT WHO SAW A COUPLE OF PIECES OF CORE STICKING OUT OF THE MOSS, BESIDE AN UP-TURNED TREE). THE CORE FROM DRILL HOLES IN (1970), WAS CROSS-PILED, AND TIPPED OVER FROM THE UP-TURNED TREE. IT WAS COVERED IN 3" OF MOSS, AND ALL CORE BOXES WERE ROTTED AWAY. NOTHING WAS DONE TO PRESERVE THE CORE, (NO ROOFING OR SILL LOGS). A CHANNEL SAMPLE, .25M WIDE, WAS TAKEN USING A GRUB HOE THROUGH THE CENTER OF THE PILE. FROM TOP TO BOTTOM, THIS SAMPLE REPRESENTS A COMPOSITE OF ALL THE DRILL CORES.

BECAUSE OF LIMITED TIME, AND CARGO LOAD FOR THE HELICOPTER, 20 SAMPLE BAGS OF CORE WERE RETRIEVED, AND CARRIED 100 METERS TO THE LANDING SITE ON PIKE RIVER. CORE SAMPLES WERE DIRTY, AND COVERED WITH SLIME AND VEGETATION, AND WERE VIRTUALLY IN-DESCRIBABLE.

CORE PILE LOCATED AT : NAD 83/ZONE 17
0437600 E
5576428 N

PROCESSING CORE SAMPLES

G. PEACOCK HEAVY MINERALS LABORATORY/NEEBING ONTARIO

OCT. 6 & 7 CORE WAS DE-SLIMED IN 20LB. BATCHES, USING BEACH SAND AS AN ABRASIVE TO CLEAN THE SURFACE OF THE CORE. THE CORES WERE WASHED WITH A GARDEN HOSE IN THE DE-SLIMMER TO REMOVE THE SAND. WASHED CORE WAS THEN PUT INTO BUCKETS. RESIDUE LEFT IN THE DE-SLIMMER CONTAINING THE SAND AND SMALL PIECES OF BROKEN CORE WERE PANNED (JUST FOR CURIOSITY).

"HIGHLY ANAMALOUS GOLD WAS DISCOVERED" UP TO 3%

QUESTIONS AROSE: DID THE GOLD COME FROM THE DRILL CORES OR THE SAND? (THIS SAND ORIGINATED FROM A DIAMOND SAMPLING PROGRAM, THE WRITER, TAUGHT WITH FIRST NATION GROUP NEAR MUSSEL-WHITE MINE, AT WEAGAMON LAKE).

OCT. 8 & 9 SINCE THE CORE WAS NOW CLEANED, (NO SAND), IT WAS PUT THROUGH ATTRITION IN TUMBLER, CORE ONLY, (NO SAND) AND PUT IN BUCKETS. THE RESIDUE (SMALL BROKEN BITS FROM TUMBLING) WERE PANNED AGAIN.

AGAIN "HIGHLY ANAMALOUS GOLD WAS DISCOVERED (UP TO 3%)

THUS VERIFYING THE GOLD WAS FROM THE DRILL CORES NOT THE SAND.

OCT. 10 THE RESIDUE WAS THEN DRIED, AND RE-MIXED, AND PUT OVER A SAMPLE SPLITTER.
EACH ½, (APPROX. 800 GRAMS) OF SAMPLE, WAS SENT TO TWO INDEPENDENT LABS TO CHECK FOR GOLD. A RARE EARTH PACKAGE WAS ALSO REQUESTED.

OCT. 11-16	**USING OLD DIAMOND DRILL LOGS AS A GUIDE, THE CORE SAMPLES WERE SEGREGATED INTO INDIVIDUAL ROCK TYPES, AND PUT INTO A-Q CORE BOXES FROM GARDEN LAKE TIMBER.** **ROCK TYPES WERE SEGREGATED INTO:** **(1) MUD STONE (VERY LITTLE)** **(2) NEPHELINE SYENITE** **(3) ALTERED OLIVINE PERIDOTITE** **(4) BASIC BRECCIA** **(5) MALIGNITE** **(6) PYROXENITE**
OCT. 17, 18, & 19	**EACH ROCK TYPE WAS THEN CUT IN HALF WITH A DIAMOND CORE SAW.**
OCT. 22-NOV. 1	**EACH INDIVIDUAL ROCK TYPE WAS THEN JAW CRUSHED AND CONE CRUSHED TO 2mm SIZE AND THEN PANNED.** **NOTE: THE MUD STONE WAS NOT PROCESSED (ONLY 10 SMALL PIECES WERE RETREIVED).**

RESULTS:

ROCK UNIT	CONCENTRATE
(1) NEPHELINE SYENITE	MAGNETITE 20% PYRITE 10 % NO VISIBLE GOLD
(2) ALTERED OLIVINE PERIDO-TITE	MAGNETITE 10% PYRITE 3% NO V.G.
(3) BASIC BRECCIA	MAG. 40 % PYRITE 6% NO V.G.
(4) MALIGNITE	MAG. 50% PYRITE 1% NO V.G.
(5) PYROXENITE	MAG. 80% PYRITE 5% NO V.G.

NOV. 2
3, & 4

ONE ROCK UNIT (NOT MENTIONED IN CORE LOGS) WAS ALSO SEGREGATED AND NAMED:

INTERMEDIATE CONTACT FLOW BRECCIA:
BRECCIATED INTERMEDIATE TO MAFIC CHLORITIC MATRIX WITH ANGULAR TO SUB-ROUNDED BRECCIA FRAGMENTS AND LAPILLI, (UP TO 4mm). UP TO 10% SUB-ROUNDED PINK FELDSPAR WITH MINOR HEMATITE STAIN.
PYRITE UP TO 10% WITH 2 SPECKS OF VISIBLE GOLD LESS THAN 1mm.

THIS ROCK PROCESSED AND SENT TO ASSAY LABS. JAN. 7, 2013. ~~RESULTS STILL PENDING.~~

ASSAYS PAYED FOR
RESULTS FROM ACTLABS (IN APPENDIX)
RESULTS FROM ACCURASSAY STILL PENDING (ANY DAY) ALSO IN APPENDIX
JANUARY 14/2013 GP

PROCESSING ALTERED OLIVINE PERIDOTITE (WITH KIMBERLITIC TEXTURE) FOR INDICATOR MINERALS AND DIAMONDS.

THIS SAMPLE WAS PROCESSED THROUGH MY HEAVY MINERALS LABORATORY (FLOW DIAGRAM IN APPENDIX) TO CHECK FOR DIAMOND INDICATOR MINERALS AND DIAMONDS.

NOV. 5 **JAW CRUSH, CONE CRUSH,, AND SIEVE SAMPLE ON RO-TAP SIEVE SHAKER.**

NOV. 6 **DE-SLIME (-1.0 + .5) mm FRACTION, AND DRY IN OVEN.**

NOV. 7 **(-1.0 + .5) mm FRACTION PUT OVER READING PILOT ROLL MAGNETIC SEPARATOR, INTERMEDIATE MAGS AND NON-MAGS SEPARATED AND SENT FOR HEAVY LIQUID FLOTATION.**

NOV. 8 **INTERMEDIATE (2-9) AMP FRACTION) PUT THROUGH LIQUID SEPARATION (S-G.2.89), FLOATS DISCARDED-SINKS SAVED FOR OBSERVING.**

NON-MAGS (+9 AMPS) PUT THROUGH LIQUID SEPARATION.

NOV. 9 12 & 13 **SINKS FROM MAG FRACTION AND NON-MAG FRACTION OBSERVED USING NIKON BINOCULAR MICROSCOPE ON GERYT'S BELT.**

BINOCULAR MICROSCOPE/ OBSERVATION

HEAVY MINERAL SEPARATION RESULTS FOR ALTERED OLIVINE PERIDOTITE (-1.0 MM TO + 0.5 MM FRACTION)

(2.0 - 9.0 AMP) INTERMEDIATE MAGS

MINERAL GRAIN	COUNT / PERCENT
STIBNITE	1
PYRRHOTITE	4
PYRITE	3%
PHLOGOPITE	5%
BARITE	30
OLIVINE	2
HEDENBERGITE	2
MAFIC ROCK FRAGMENTS	80%

(+ 9.0 AMP.) NON-MAGS

CORUNDUM	3
BARITE	15
QUARTZ	1
HORNBLENDE	2
FELSIC ROCK FRAGMENTS	40%

TIME SHEET OF WORK ACTIVITY

OCT. 6,7	DE-SLIME CORES WITH SAND --	G.PEACOCK/ 2 DAYS	$ 800.00
		T.PEACOCK/ 2 DAYS	500.00
OCT.8.9	ATTRITION OF CORES IN TUMBLER (NO SAND)	G.PEACOCK/ 2 DAYS	$ 800.00
		T.PEACOCK/ 2 DAYS	500.00
OCT. 10	DRY SAMPLES/PUT OVER SAMPLE SPLITTER AND DELIVER TO ACCURASSAY AND ACTLABS	G.PEACOCK/ 1 DAY	$ 400.00
OCT. 11-16	SEGREGATING CORE INTO INDIVIDUAL ROCK UNITS	G. PEACOCK/6 DAYS	$2,400.00
		T. PEACOCK/6 DAYS	1,500.00
OCT. 17, 18, & 19	SAW CORES ON DIAMOND SAW	G. PEACOCK/3 DAYS	$1,200.00
OCT. 22-NOV. 1	JAW CRUSH/CONE CRUSH AND PAN 5 DISTINCT ROCK UNITS	G. PEACOCK/ 11 DAYS/	$4,400.00
		T. PEACOCK/11 DAYS/	2,750.00
NOV. 2 3 & 4	PROCESS INTERMEDIATE CONTACT FLOW BRECCIA	G. PEACOCK/3 DAYS/	$1,200.00
		T. PEACOCK/3 DAYS/	750.00
NOV. 5 6 & 7	HEAVY MINERAL SEPARATION ALTERED OLIVINE PERIDOTITE JAW CRUSH/CONE CRUSH & SIEVE	G. PEACOCK/3 DAYS/	$1,200.00
		T. PEACOCK/3 DAYS/	750.00

TIME SHEET OF WORK ACTIVITY CON'T

NOV. 8	DE-SLIME (-1mm + .5mm) FRACTION & DRY	G. PEACOCK/1 DAY	$400.00
NOV. 9	MAGNETIC SEPARATION ON PILOT ROLL MAGNETIC SEPARATOR	G. PEACOCK/1 DAY	$400.00
NOV. 10	HEAVY LIQUID SEPARATION	G. PEACOCK/1 DAY	$400.00
NOV. 11	0BSERVE SINKS FROM LIQUID SEPARATION MAGNETIC FRACTION & NON- MAGNETIC FRACTION	G. PEACOCK/3 DAYS	$1,200.00
NOV. 14-17 & DEC. 18.	REPORT WRITING	G. PEACOCK/5 DAYS	$2,000.00
DEC. 19 & 20	TYPING REPORT AND PHOTO-COPYING	T. PEACOCK/2 DAYS	500.00
JAN. 7, 2013.	DRY SAMPLE FROM CONTACT FLOW BRECCIA (2 SPECKS V.G.). SPLIT SAMPLE ON SPLITTER, AND DELIVER TO (2) ASSAY LABS.	G. PEACOCK/1 DAY	400.00

TOTAL FOR G. PEACOCK/43 DAYS	$17,200.00
TOTAL FOR T. PEACOCK/ 29 DAYS	7,250.00
TOTAL COMBINED	$24,450.00

LIST OF ANOMALOUS ELEMENTS AND RARE EARTH ELEMENTS FROM CORE COMPOSITE SAMPLE.

(1PPM = 1 GRAM/TONNE)

LIGHT RARE EARTHS	PPM
CERIUM	1160
PRASEODYMIUM	117
NEODYMIUM	379
SAMARIUM	52.7
HEAVY RARE EARTHS	
EUROPIUM	11.1
GADOLINIUM	36.8
TERBIUM	4.1
DYSPROSIUM	20.2
HOLMIUM	3.4
ERBIUM	9.6
THULIUM	1.22
YTTERBIUM	7.4
LUTETIUM	1.8
YTTRIUM	90.0
OTHERS	
STRONTIUM	1440
VANADIUM	248
CHROMIUM	290
NICKEL	140
COPPER	56
ZINC	170
RUBIDIUM	105
NIOBIUM	742
MOLYBDENUM	85
THORIUM	203
BARIUM	1860
MANGANESE	2850
LANTHANUM	693
PHOSPHOROUS	2515

CONCLUSION

FROM THIS STUDY, WE NOW KNOW THAT THIS FORGOTTEN PROPERTY (43 YEARS OLD), NOW HAS A NEW LIFE. IT WILL DEFINITELY NEED MORE WORK.

RECOMMENDATIONS

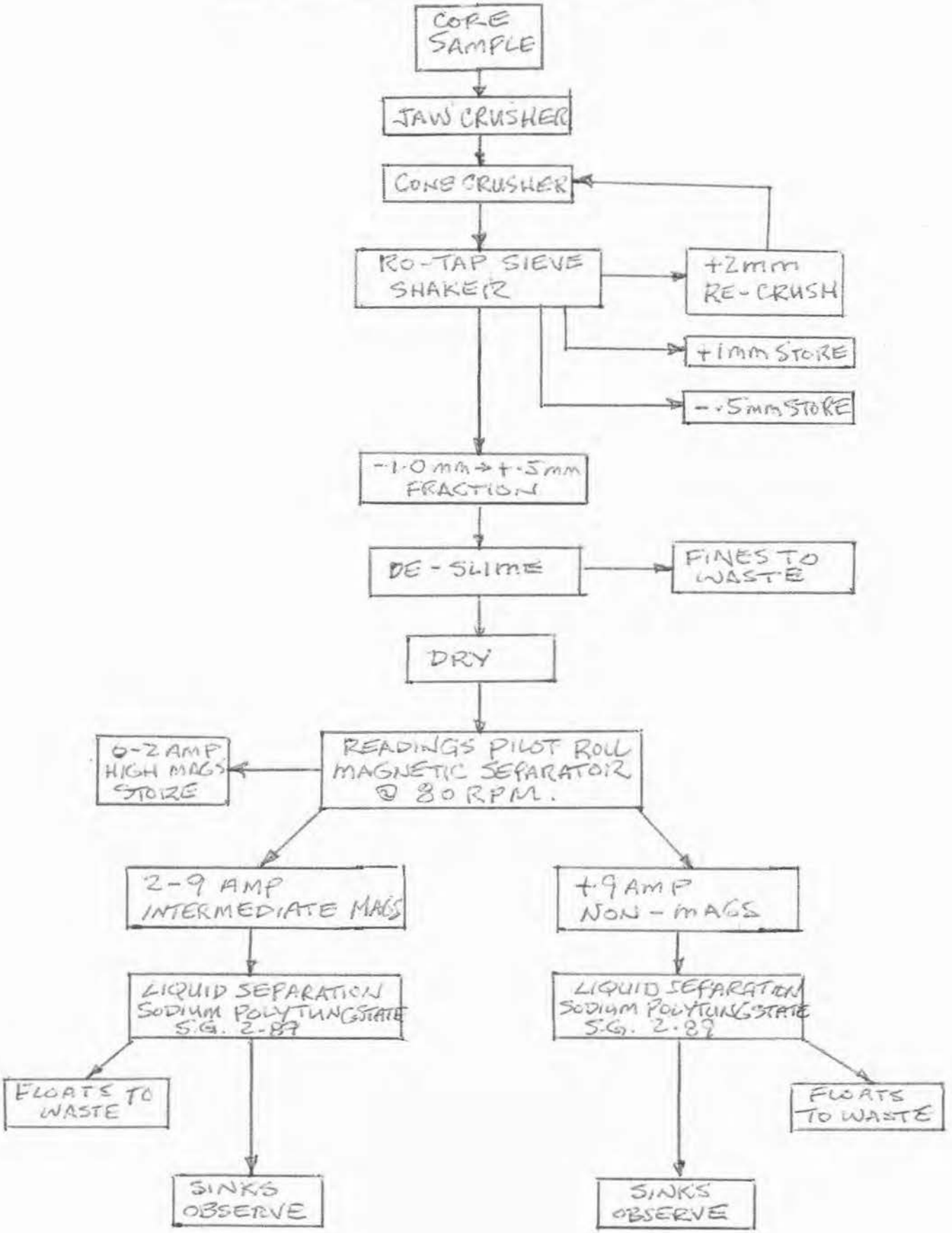
DUE TO THE ABSENCE OF OUT CROP, THIS PROPERTY NEEDS MORE DIAMOND DRILLING, TO BETTER DEFINE AND CLASSIFY THE ROCK TYPES, AND THEIR RELATIONSHIPS.

RESPECTFULLY SUBMITTED,

GARY PEACOCK
NEEBING, ON.

APPENDIX

HEAVY MINERALS FLOW SHEET



EQUIPMENT LIST

WOODSTOCK NUMBERO -A27
3" x 5" JAW CRUSHER

MINES & SMELTER CORP.
DENVER COLORADO U.S.A. 80205
SER. # 3151-328-10G

10" CONE CRUSHER

W.S. TYLER 12" DIAMETER
RO-TAP SIEVE SHAKER
MODEL RX-30-CAN
SER. # 25695

READINGS OF LISMORE
N.S.W. AUSTRALIA
PILOT ROLL MAGNETIC SEPARATOR
SER. # PR 71 - 781- 133

GAST VACUMN PUMP
MODEL 0523-V4F-G582DX

GEO-LIQUIDS
SODIUM POLYTUNGSTATE
S.G. 2.89
CHICAGO, ILL. U.S.A.

NIKON BINOCULAR MICROSCOPE
MODEL 97750 C/W
GERYT'S BELT

GARY PEACOCK'S

PROOF OF QUALIFICATION

RESUME

PAST INVOICES

PROSPECTOR'S LIFE LICENCE

GARY C. PEACOCK
RR # 3, 241 OLIVER CREEK RD.,
THUNDER BAY, ONT.,
P7C 4V2
(807) 473 - 9513 (PHONE/ FAX)

STATUS:

MARRIED : TWO CHILDREN
CANADIAN: BORN OTTAWA, 1950
HEALTH: EXCELLENT

EDUCATION:

GEOLOGICAL TECHNICIAN (92.5 % AVERAGE)
CAMBRIAN COLLEGE
SAULT ST. MARIE ONT.

GRADE 12 - TECHNICAL COURSE
BELL HIGH SCHOOL
OTTAWA ONT.

EMPLOYMENT HISTORY:

HIRED FROM COLLEGE BY SELCO EXPLORATION CO.,
IN 1970. (NOW A DIVISION OF B.P. RESOURCES CAN. LTD.)
- WORKED ALL ASPECTS OF BASE METAL EXPLORATION INCLUDING: DIAMOND DRILL SUPERVISION, GEOLOGICAL MAPPING/ GEOPHISICAL & GEOCHEMICAL SURVEYS.
- INSTRUMENTAL IN THE DISCOVERY OF SEL-BAIE MINES IN NORTHEN QUEBEC.
- GENERAL SUPERVISION OF MANY OTHER PROGRAMS FROM NEWFOUNDLAND YO BRITISH COLUMBIA.

LABORATORY:

1980: WAS SENT TO PERTH, WESTERN AUSTRALIA BY SELCO EXPLORATION TO WORK IN THE HEAVY MINERAL LABORATORY FOR SELTRUST MINING CORPORATION PTY. LTD.
- RETURNED TO THUNDER BAY AND BUILT A HEAVY MINERALS LABORATORY FOR DIAMOND EXPLORATION.

THUNDER BAY LABORATORY :

MY DUTIES HERE INCLUDED: ALL SHIPPING/ RECEIVING OF FIELD SAMPLES, SETTING UP AND MAINTANING ALL EQUIPMENT AND PROCESSES (CLASSIFIED CONFIDENTIAL)

- LIASONED WITH GOVERNMENT DEPARTMENTS FOR ENVIRONMENT/ LABOUR/ HEALTH AND SAFETY.
- SETTING UP FLOW SHEETS AND NUMBERING SYSTEMS
- CONTROLLED ANNUAL BUDJETS UP TO $ 1 MILLION
- ESTABLISHED A DIAMOND CAUSTIC FUSION PROCESS STILL BEING USED TODAY.

1988: ESTABLISHED G. PEACOCK ENTERPRISES:

COMPLETE MINERAL EXPLORATION SURVICES INCLUDING DIAMOND INDICATOR/ HEAVY MINERAL SEPARATION, SERVICES. I PRESENTLY CARRY ON CONSULTING WORK FOR VARIOUS MINING COMPANIES.

1993: ESTABLISHED A COMLETE MINERAL PROCESSING LAB., FOR KENNECOTT CANADA , AT LAC DE GRASS, IN THE NORTH WEST TERRITORIES.

1994: ASSISTED WITH THE SET UP AND COMMISSIONING OF A HEAVY MEDIA SEPARATION PLANT FOR KENNECOTT IN YELLOWKNIFE N.W.T.

- WORKED EXCLUSIVELY WITH " BUSINESS RISKS AUSTRALIA" TO SET UP THE DIAMOND SECURITY SYSTEM FOR THE PLANT, WHICH WAS LOCATED ON THE CON MINE PROPERTY.

1995 TO PRESENT:

ESTABLISHED A HEAVY MINERALS LAB FOR KENNECOTT IN THUNDER BAY (PRESENTLY EMPLOYING 23 PEOPLE)

- CONSULTED WITH ANAMET LABORATORY (DIVISION OF RIO TINTO) IN BRISTOL ENGLAND, AND ESTABLISHED A MINERAL CIRCUIT FOR THEIR FINLAND PROGRAM.
- EXPEDITED THE UNGAVA DIAMOND PROGRAM WHICH INCLUDED: SAMPLE LOCATIONS/ REMOTE FUEL CACHES/ HELECOPTER CONTRACT/ AND LODGING ACCOMMODATIONS.

1995 TO PRESENT (CONT.):

DESIGNED A " WORLD CLASS " DIAMOND CAUSTIC FUSION LABORATORY FOR KENNECOTT CANADA IN THUNDER BAY:

- **TO ACCOMPLISH THIS TASK I WORKED WITH MANY CITY OF THUNDER BAY DEPARTMENTS FOR: BUILDING PERMITS/ WATER PERMITS/ HYDRO EXPANSIONS ETC.**
- **I WORKED EXCLUSIVELY WITH THE MINISTRY OF THE ENVIRONMENT AND LABOUR FOR ALL NECESSARY PERMITS.**
- **ALSO I SUPERVISED THE SECURITY SYSTEM FOR THE LAB. (WHICH WAS SUCCESSFULLY AUDITED BY: " BUSINESS RISKS AUSTRALIA "**
- **I ASSISTED IN GAINING: I.S.O. CREDITATION C/W GUIDE 25 CREDITATION FOR LABORATORIES.**
- **I WORKED AS MANAGER OF PROCESSING AND DEVELOPMENT AND SUPERVISOR FOR HEALTH / SAFETY AND ENVIRONMENT.**
- **AS OF JANUARY 18, 2000., MY POSITION WAS TERMINATED DUE TO BUDJET RESTRAINTS...**

INTERESTS:

OUTDOOR ACTIVITIES/ HOBBY FARMING/ GARDENING LOG HOME BUILDING.

REFERENCES:

AVAILABLE UPON REQUEST...

G. PEACOCK ENTERPRISES
RR # 3, BOX #7,
241 OLIVER CREEK ROAD,
THUNDER BAY ON.,
P7C 4V2
PHONE / FAX : 807.473.9513

INVOICE

MARCH 15, 2006.

NORTH CARIBOU LAKE FIRST NATION

ATTN: ZEB KENEQUENASH

RE: FIELD SAMPLING / TRAINING AND DIAMOND INDICATOR MINERAL PROCESSING

FIELD WORK:

21 MAN DAYS(3 WEEKS) @ $ 600.00 / DAY --- $ 12,600.00

LABORATORY:

14 DAYS(2 WEEKS) @ $ 600.00 / DAY ---------- $ 8,400.00

TOTAL NOW OWING ---------- $ 21,000.00

REGARDS:

GARY PEACOCK
THUNDER BAY ONTARIO

Please Detach Before Cashing

NORTH CARIBOU LAKE BAND
BAND ADMINISTRATION ACCOUNT

CHEQUE NO. 014570

14570

Payee		Date	Amount	
G. Peacock Enterprises		Mar 31,06	21,000.00	
MISCEL	G. Peacock Enterprises RE: FIELD SAMPLING\TRAINING & DIAMOND INDICATOR MINERAL PROCESSING		21,000.00	21,000.00

INVOICE

PILOT HARBOUR PROJECT

G. PEACOCK ENTERPRISES
R.R. #3 BOX#7
241 OLIVER CREEK ROAD
THUNDER BAY ON.,
P7C 4V2

PHONE/FAX: 807-473-9513

NOVEMBER 5, 2007.

COMPANY (X, Y, Z) NOT SHOWN FOR PRIVACY REASONS

THE FOLLOWING WORK IS NOW COMPLETED:

1 MAN DAY CONSULTING FOR G. PEACOCK FOR START UP & CORRESPONDENCE WITH MINISTRY OF NORTHERN DEVELOPMENT AND MINES. $400.00

MOB TO WAWA - THURSDAY OCT. 11th, 2007- $400.00/MAN DAY (2 PEOPLE) $800.00

FLY IN/SET UP CAMP/CUT TRAIL TO NORTH BOUNDARY CLAIM # 1037394
1 MAN DAY - 2 PEOPLE $800.00

PROSPECTING WORK AS PER DAILY LOG (FRIDAY OCTOBER 12- THURSDAY OCTOBER 18, 2007) INCLUSIVE- 7 MAN DAYS FOR 2 PERSONS. $5,600.00

FLY BACK TO WAWA IN THE AFTERNOON (FOGGED IN) AND TRAVEL TO NIPIGON 800.00

TRAVEL FROM NIPIGON TO THUNDER BAY - ½ DAY 400.00

2 DAYS CONSULTING FEE (G. PEACOCK) TO MAKE UP MAPS AND REPORT 800.00

SUB-TOTAL---------- $9,600.00

G.S.T. #121991525---------- 576.00

SUB-TOTAL	**$10,176.00**
PLUS EXPENSES (ON SECOND SHEET)	**$1,282.83**
TOTAL	**$11,458.83**
LESS ADVANCE (SEPTEMBER 20, 2007)	**5,000.00**
TOTAL NOW OWING	**$ 6,458.83**

I HOPE THAT WE MAY BE ABLE TO COMPLETE MORE WORK FOR YOUR COMPANY IN THE NEAR FUTURE.

REGARDS:

GARY PEACOCK
THUNDER BAY, ONTARIO.

G. PEACOCK ENTERPRISES
RR# 3, BOX# 7
241 OLIVER CREEK ROAD,
THUNDER BAY ON.,
P7C 4V2
PHONE/FAX: 807 473 9513

INVOICE

JUNE 10, 2008.

SKYBRIDGE DEVELOPMENT CORP.,
ALYRIS GOLD CORP.,
PO. BOX 10195
THUNDER BAY ON.,
P7J 6T7

ATTN: ABRAHAM DROST

RE: DIAMOND DRILL SUPPORT / BLUE CARIBOU PROJECT

THE FOLLOWING WORK IS NOW COMPLETED:

22 MANDAYS (G. PEACOCK) @ $ 500.00/DAY ---	$ 11,000.00
(MAY 16 - JUNE 8, 2008. INCLUSIVE)	
22 MAN DAYS (HELPER) @ $ 200.00/ DAY --------	$ 4,400.00
SUB-TOTAL ----------	$ 15,400.00
G.S.T. #(121991525) @ 5% ----------	770.00
SUB- TOTAL ----------	$ 16,170.00
PLUS EXPENSES (ON SECOND SHEET) ----------	$ 25.92
TOTAL NOW OWING ----------	$ 16,195.92

I HOPE THAT WE MAY BE ABLE TO COMPLETE MORE WORK FOR YOUR COMPANY IN THE NEAR FUTURE.

REGARDS:

GARY PEACOCK / THUNDER BAY

G. PEACOCK ENTERPRISES
241 OLIVER CREEK ROAD,
NEEBING ONTARIO,
P7L 0C4

PHONE/ FAX: 807.473.9513

INVOICE

AUGUST 2, 2011.

H.T.X. MINERALS
410 FALCONBRIDGE ROAD,
UNIT # 5
SUDBURY ON.,
P3A 4S4

ATTN: STEVE FLANK
RE: CORE CUTTING SERVICES

THE FOLLOWING WORK IS NOW COMPLETED:

3.5 DAYS CORE CUTTING @ $ 400.00/ DAY	**$ 1400.00**
(INCLUDES PICK UP AND DELIVERY)	
H.S.T. @ 13% (# 121991525)	**182.00**
TOTAL NOW OWING	**$ 1582.00**

I HOPE THAT WE MAY BE ABLE TO COMPLETE MORE WORK FOR YOUR COMPANY IN THE NEAR FUTURE.

REGARDS: Gary Peacock

GARY PEACOCK
NEEBING ONTARIO

G. PEACOCK ENTERPRISES
241 OLIVER CREEK ROAD,
NEEBING ON.,
P7L 0C4
PHONE/ FAX: 807.473.9513

INVOICE

SEPTEMBER 9, 2011.

SLAM EXPLORATION LTD.,
285 CAMBELL STREET,
MIRAMICHI N.B.
E1V 1R4

ATTN: MIKE TAYLOR

RE: CORE CUTTING SERVICES

THE FOLLOWING WORK IS NOW COMPLETED:

5 MAN DAYS @ $ 400.00/ DAY ----------	$ 2,000.00
(INCLUDES MOVING CORE TO STORAGE)	
H.S.T. (# 121991525) ----------	260.00
SUB-TOTAL ----------	$ 2,260.00
HOME DELIVERY CHARGE (MANITOULIN)	$ 57.45
TOTAL NOW OWING ----------	$ 2,317.45

I HOPE THAT WE MAY BE ABLE TO COMPLETE MORE WORK FOR YOUR COMPANY IN THE NEAR FUTURE.

REGARDS:

GARY PEACOCK
NEEBING ONTARIO.

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Ontario

Provincial Recording Office
3rd Floor, 933 Ramsey Lake Road
Sudbury, ON
P3E 6B5

Tel.: (705) 670-5742
Toll-Free: 1-888-415-9845
Fax: (705) 670-5681
Toll-Free Fax: 1-877-670-1444

May 10, 2002

Mr. Gary C Peacock
R.R. #3
Thunder Bay, Ontario
P7C 4V2

Dear Mr. Peacock:

It is with a great deal of pleasure that I enclose your permanent prospector's licence. As the name implies, this licence will never have to be renewed.

Should you lose your licence, you may go before any Mining Recorder and declare your loss. The declaration will be forwarded to my office for a replacement of the licence.

A certificate, suitable for framing, is being prepared and will be forwarded to you at a later date.

Sincerely,

Blair Kite
Provincial Mining Recorder
PD

Encl.

I DECLARE, THAT I ASSISTED GARY PEACOCK, WITH WORK ON THE PIKE RIVER PROPERTY ON:

DATE(S): OCT. 6-9, 11-16, 22- NOV. 1
NOV. 2-7, DEC. 19+20/2012.

SIGNATURE:

S. Peacock

AIR BORN MAGNETICS
1964

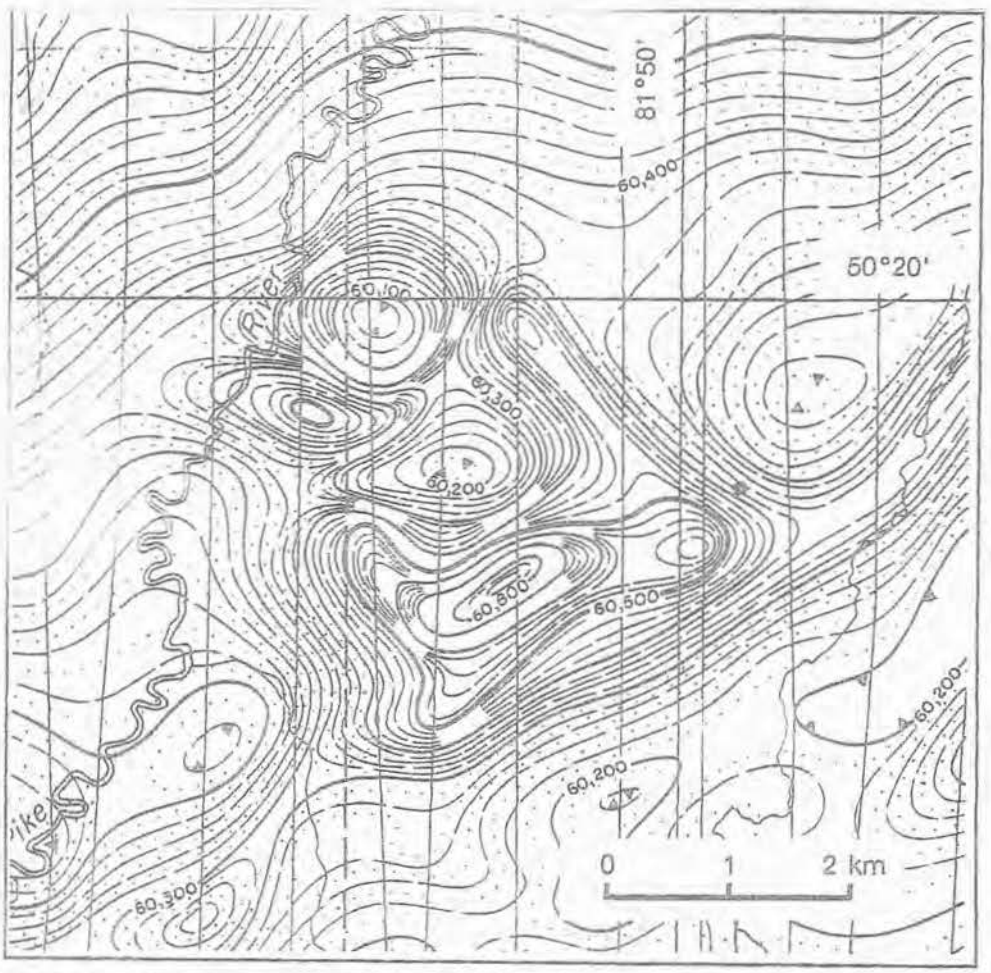
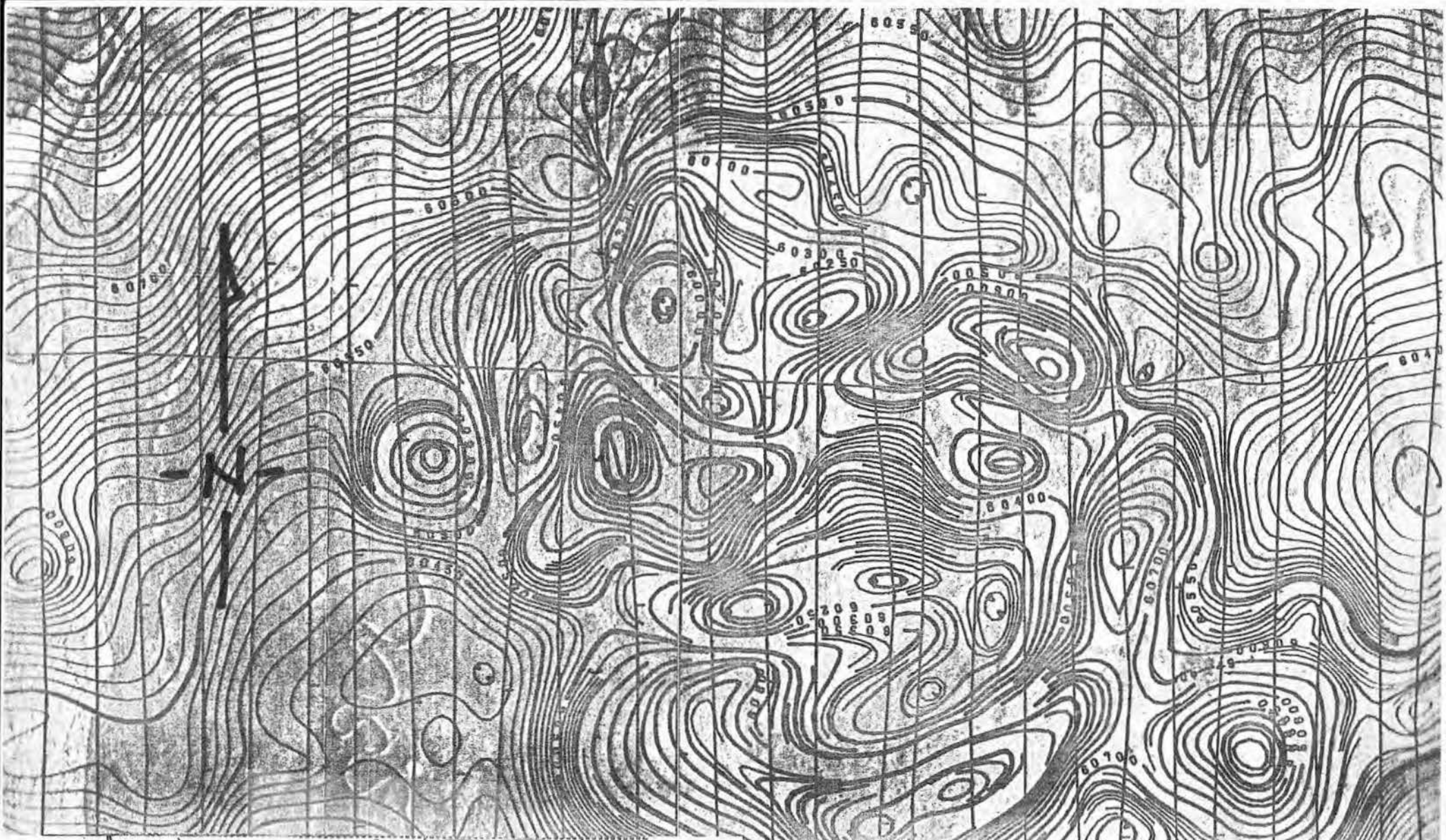


Figure 2. *Aeromagnetic map of the Hecla-Kilmer Alkalic Rock Complex (from Aeromagnetic Map 2307G, ODM-GSC 1964).*



ASSESSMENT FILE
T-2408

Scale 1: 25000

2000 0 6000 Ft.

500 0 1000 2000 M

FOESTOR SURVEYS JUNE 1981

HIGH RESOLUTION AEROMAGNETIC SURVEY

Ministry of Northern Development and Mines
Mines and Minerals Division
Ontario

Geology of

Carbonatite – Alkalic Rock Complexes in Ontario:

Hecla–Kilmer Alkalic Rock Complex

District of Cochrane

Ontario Geological Survey
Study 38

1988

STUDY 38
CARBONATITE – ALKALIC ROCK COMPLEXES: HECLA–KILMER
OGS

Introduction

The Hecla–Kilmer Alkalic Rock Complex straddles the Hecla–Kilmer Townships line south of Mattagami River. The complex is unexposed and lies within the Kapuskasing Subprovince of the Superior Province. The poor access and lack of exposure has inhibited work on the complex. The complex remains poorly known since work on the complex has been limited and the work completed has located little of economic interest.

Acknowledgments

The Ontario Ministry of Natural Resources provided a helicopter to the author in 1978. The author was assisted by Mr. Steve Wilkinson in sampling the core. In 1988, Mr. A. Lisowyk revised the tables of analytical data in the appendix.

Location and Access

The complex (Figure 1) lies on the boundary between Hecla and Kilmer Townships approximately 5 km south of the Mattagami River. A former campsite exists on the east side of Pike Creek which crosses the west side of the complex. Float–equipped aircraft can land on the Mattagami River, however, the former campsite is accessible only by helicopter. Pike Creek, at the time of the author's visit, was too shallow for canoe access. The complex is located 16 km northwest of Coral Rapids which is served by a line of the Canadian National Railway. On the basis of aeromagnetic data (ODM–GSC 1964) (Figure 2) the complex has a surface area of approximately 20 km^2.

Field Methods

The lack of outcrop prevents surface mapping. All lithologic and chemical data must be obtained from drilling. Samples were collected from drill core abandoned in the bush by Ashland Oil and Refining Company in 1969. The numbers on some of the boxes were illegible or barely legible and thus some of the samples discussed may have been assigned to the wrong hole and depth.

Previous Geologic Work

Ashland Oil and Refining Company and Elgin Petroleum Corporation Limited investigated the economic potential of the complex in 1969. There have been no previous published reports on the complex. Bell and Blenkinsop (1980) completed Rb–Sr isotopic studies on the intrusion.

Physiography

The terrain covering the complex is low and wet with negligible relief.

Laboratory Technique

Homogeneous sections of core were selected for thin section examination and those specimens displaying the most homogeneous texture and the least alteration were selected for complete rock analysis.

Nomenclature

Nomenclature used in mapping alkalic rock – carbonatites of Ontario is modified after that of Parsons (1961). The author has used a somewhat different nomen-

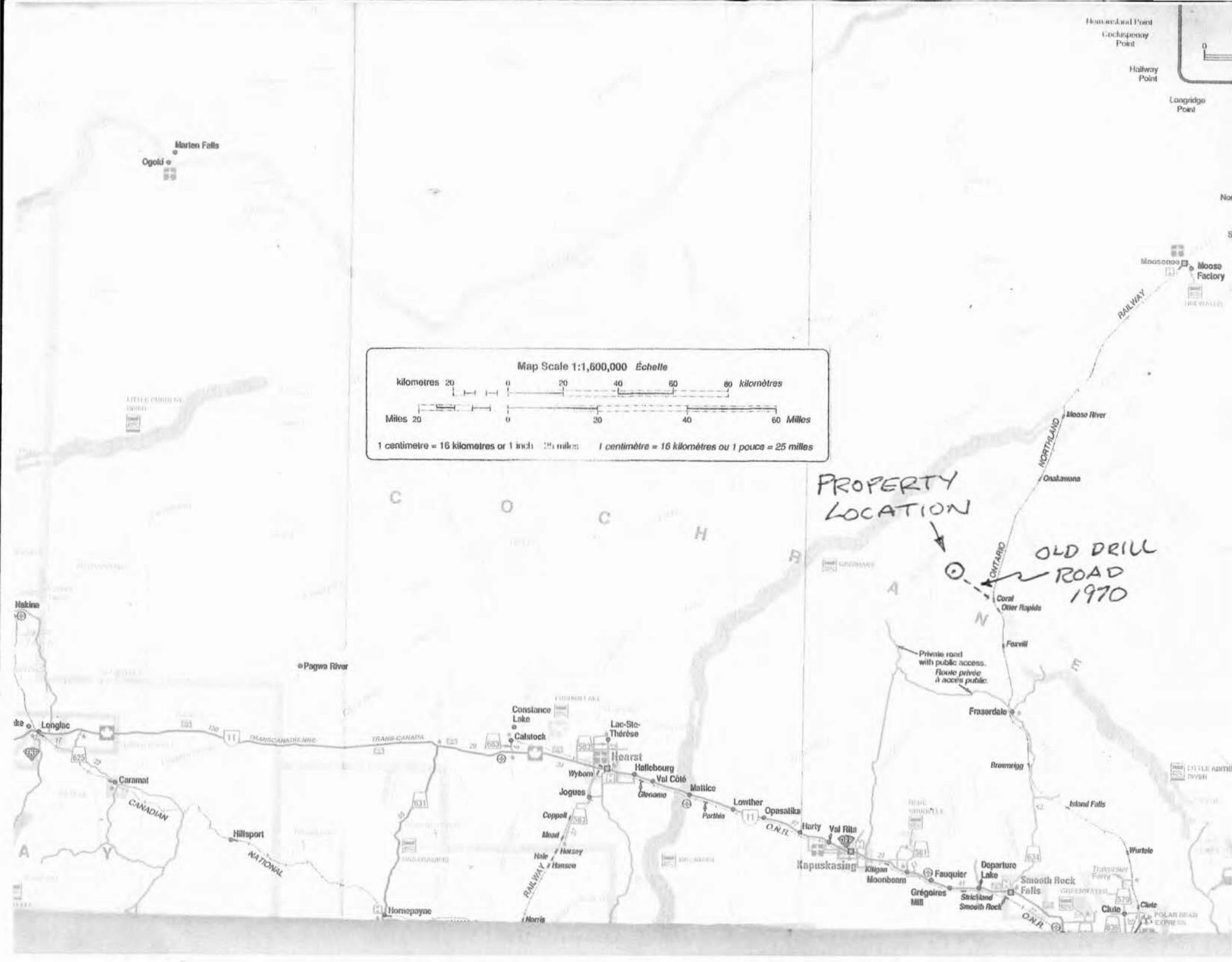
TABLE A-3. TRACE ELEMENT ANALYSES (PPM) OF WHOLE-ROCK SAMPLES FROM THE HECLA-KILMER ALKALIC ROCK COMPLEX.

	Nepheline Syenite						
Ref. No.	1293	1294	1295	1296	1298	1299	1311
Ag	<1	<1	<1	<1	<1	<1	<1
Au	NO VALUES						
As							
Ba	1400	1500	1700	1700	1600	1000	1300
Be	7	6	7	7	6	7	6
Bi							
Co	7	10	10	7	8	8	5
Cr	<5	<5	<5	<5	5	<5	5
Cu	8	15	16	5	7	6	6
Ga	15	15	15	7	15	15	15
Hg							
Li	165	95	70	80	60	65	35
Mn							
Mo	25	7	7	4	10	5	9
Nb	150	300	250	100	400	300	250
Ni	<5	<5	<5	<5	<5	<5	<5
Pb	40	105	55	30	75	20	30
Rb	130	160	160	120	130	130	150
Sb							
Sc	<5	<5	<5	<5	<5	<5	<5
Sn	<3	<3	<3	<3	<3	<3	<3
Sr	1000	700	1000	600	800	900	1700
Ti							
V	<10	<10	<10	<10	<10	<10	<10
Y	40	30	40	20	40	300	30
Zn	30	35	109	30	70	95	80
Zr	200	300	200	150	500	800	200
La	250	150	200	<100	200	200	150
Nd	<100	<100	<100	<100	100	<100	<100
Ce	280	240	260	150	260	280	210

Notes: For sample descriptions, see Table A-1. Analyses by Geoscience Laboratories, Ontario Geological Survey, Toronto.

Ref. No.	Sample No.	Ref. No.	Sample No.
1293	HK2A	1298	HK3 430-455A
1294	HK2B	1299	HK3 430-455B
1295	HK2 330-355B	1311	HK6 480-505A
1296	HK2 330-355A		

NO GOLD OR ARSENIC CHECKED FOR.


Map Scale 1:1,600,000 Échelle
kilometres 20 0 20 40 60 80 kilomètres
Miles 20 0 20 40 60 Miles
1 centimetre = 16 kilometres or 1 inch 25 miles
1 centimètre = 16 kilomètres ou 1 pouce = 25 milles
PROPERTY LOCATION
OLD DRILL ROAD 1970
Marten Falls
Ogoki
Moosonee
Moose Factory
Moose River
Onakawana
Coral
Otter Rapids
Foxvill
Private road with public access.
Route privée à accès public.
Fraserdale
Broomrigg
Island Falls
Wurtele
Clute
Smooth Rock Falls
Departure Lake
Fauquier
Kapuskasing
Kilgan
Moonbeam
Grégoires Mill
Stricland
Smooth Rock
Val Rita
Harty
Opasatika
Lowther
Mattice
Glenomo
Parthia
Hearst
Wyborn
Hallebourg
Val Côté
Jogues
Coppell
Mead
Horsey
Hale
Hansen
Constance Lake
Calstock
Lac-Ste-Thérèse
Pagwa River
Nakina
Longlac
Caramat
Hillsport
Homepayne
Harris
TRANSCANADIENNE
TRANS-CANADA
CANADIAN
NATIONAL
RAILWAY
NORTHLAND
ONTARIO
O.N.R.
C O C H R A N E

Part A

Ontario Ministry of Northern Development and Mines

Application to Record Staked Mining Claim(s)

Mining Act, Subsection 44(1), R.S.O. 1990

Personal information collected on this form is obtained under the authority of subsection 44(1) of the Mining Act. Under section 8 of the Mining Act, this information will be used to maintain a public record. It will also be used to correspond with the claim holder. Questions about this collection should be directed to a Provincial Mining Recorder, Ministry of Northern Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5. Telephone 1-888-415-9845.

Received Stamp (Office Use Only)
PROVINCIAL RECORDING OFFICE - SUDBURY
RECEIVED
JAN 17 2011
A.M. P.M.

Transaction No. (Office Use Only): R.1160.00139

Name of Recording Licensee: GARY CHARLES PEACOCK

Licence No.: P 10126 | Client No.: 180355

Address: Unit No., Street No., Street Name: 241 OLIVER CREEK ROAD

City/Town/Village: NEEBING | Province: ONTARIO | Postal Code: P7L 0C4

Telephone No.: 807.473.9513 | Fax No.: SAME

Is this a CHANGE OF ADDRESS? ☐ YES ☐ NO

Name and Address for Service in Ontario: (Required if Recording Licensee Resides Outside of Ontario)

Name of Recorded Holder: ☑ same as above or:

Percent Held: 100 %

Transaction No. (Office Use Only)

Address: Unit No., Street No., Street Name

Client No.

City/Town/Village | Province | Postal Code | Telephone No. | Fax No.

Name and Address for Service in Ontario: (Required if Recorded Holder Resides Outside of Ontario)

Mining Division: PORCUPINE

Township(s) or Area(s) (Show Plan No.): HECLA G-0889 KILMER G-3524

Group Claim Number	Tag Number	No. of 16 Ha Units in Claim	Description if Staking in Subdivided Township (Lot No., Concession No., Section of Lot)	Staking	Post No.	Date (yyyy/mm/dd)	Time (eg. 2:30)	Office Use
1	4218824	16	1:2 KILMER 3:4 HECLA	Commenced	POST 4	2011/01/07	11:30 AM	5
				Completed	POST 2	2011/01/07	4:00 PM	
2	4218825	16	KILMER	Commenced	POST 4	2011/01/07	3:30 PM	/
				Completed	POST 1	2011/01/10	2:10 PM	
3	4218826	16	1:2 KILMER 3:4 HECLA.	Commenced	POST 4	2011/01/07	1:40 PM	6
				Completed	POST 2	2011/01/09	12:30 PM	
4	4218827	16	KILMER	Commenced	POST 4	2011/01/07	4:00 PM	5,6
				Completed	POST 2	2011/01/09	3:00 PM	
5	4256172	12	11	Commenced	POST 3	2011/01/10	10:00 AM	5
				Completed	POST 4	2011/01/10	3:20 PM	

If you send this form by telephone transmission, the original must be received in the Provincial Recording Office within 10 business days of transmission.

"Mining Lands Website: http://www.mndm.gov.on.ca/mndm/mines/lands/default_e.asp"

RECORDED
Jan-17/11
Receipt

0223E (04/2006)

01-13-2011 010.9286

DEBIT 306.00

A. Sketch

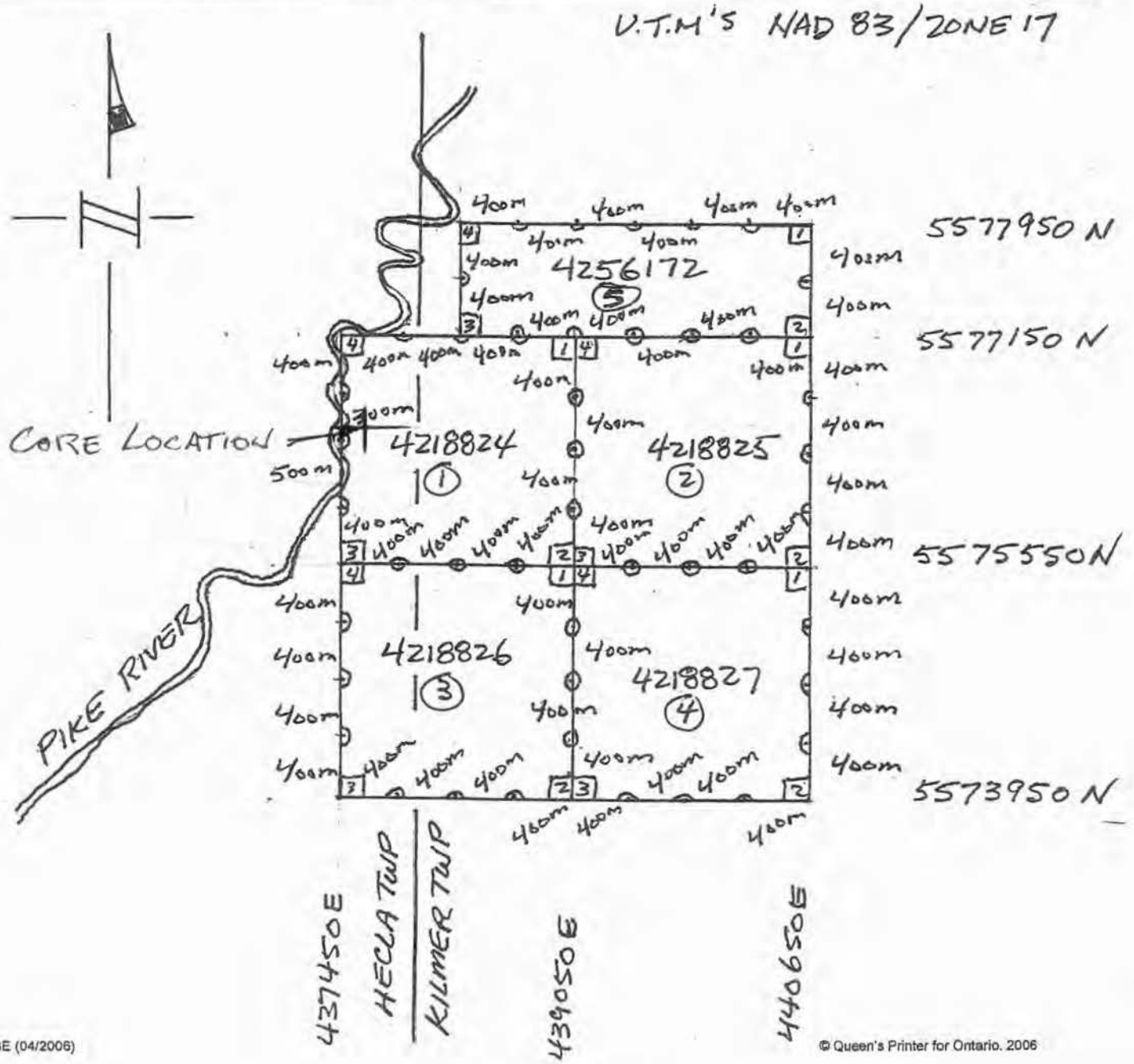
B. Please complete sketch in ink.

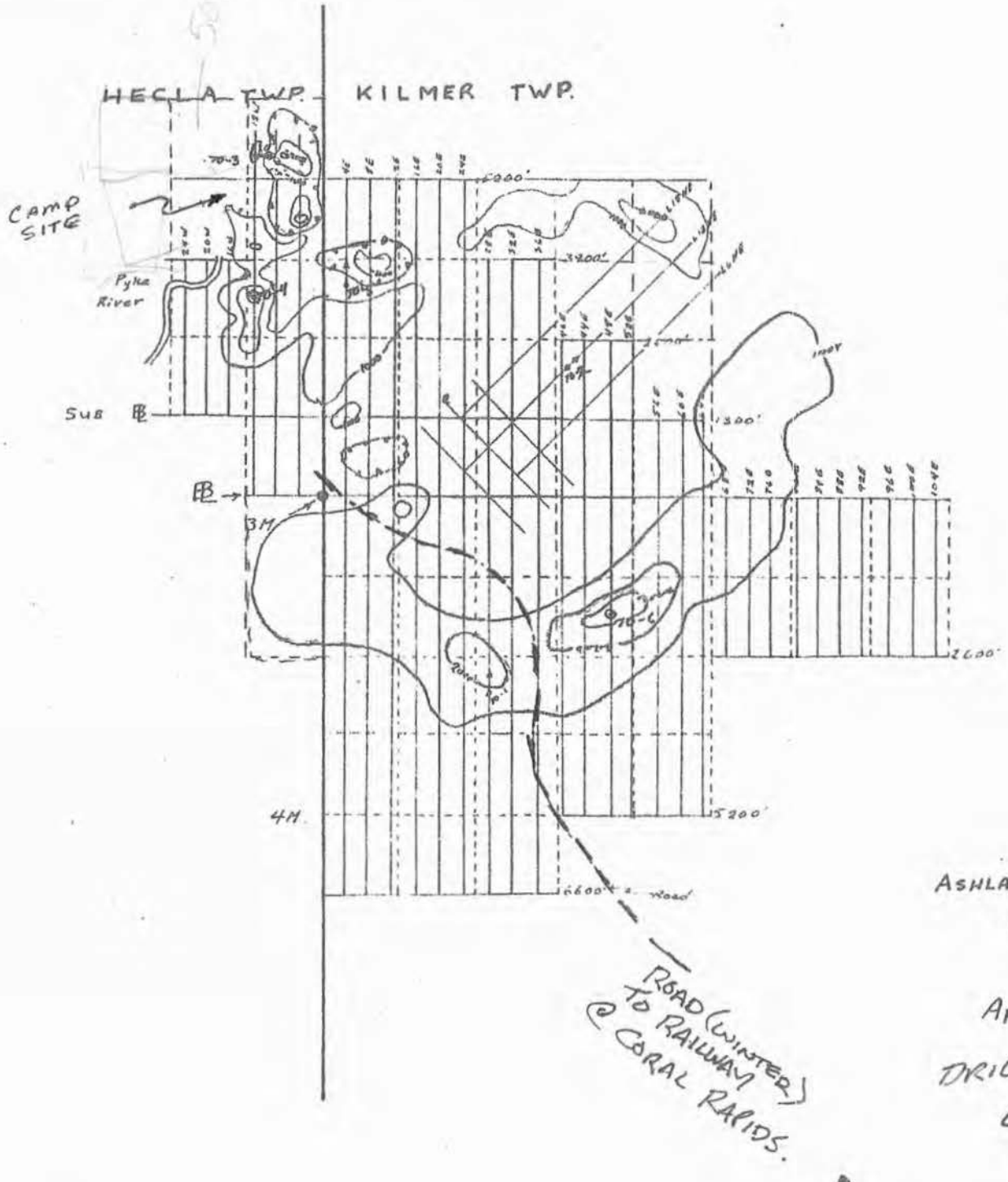
- Where applicable, the items indicated on the sample sketch on Part B must be shown.
- **Group Sketch** of claims listed on Part A. Sketch or plan of the mining claim(s) must show the corner posts, witness posts, and line posts, and the distances between the posts in metres.
- Include topographic features such as lakes, rivers, creeks, ponds, etc. and developments such as hydro lines, highways, railways, pipelines, buildings, etc. as shown on sketch in Part B.
- Refer to sample sketch on Part B.

C. Magnetic Declination Used.
(For current data, ask at the Recorder's Office.) 10°W

D. Scale

0 800 1600
METERS





12W —— Instrument Lines

- - - - - - Claim Boundaries

—·—· Road

PDN #	Loc's	Dir'n	Dip	Depth
70-1	L12E 33S	N	56°	100
70-2	L12E 31N	NE	83°	500
70-3	L12W 51N	E	30°	600
70-4	L12W 73N	—	40°	400
70-5	L9E 35N	N	50°	600

1000 Magnetic Contours: 1000g intervals

ASHLAND - ELGIN Property

GRID SKETCH

1" = ½ mi.

Approx. -39 mi

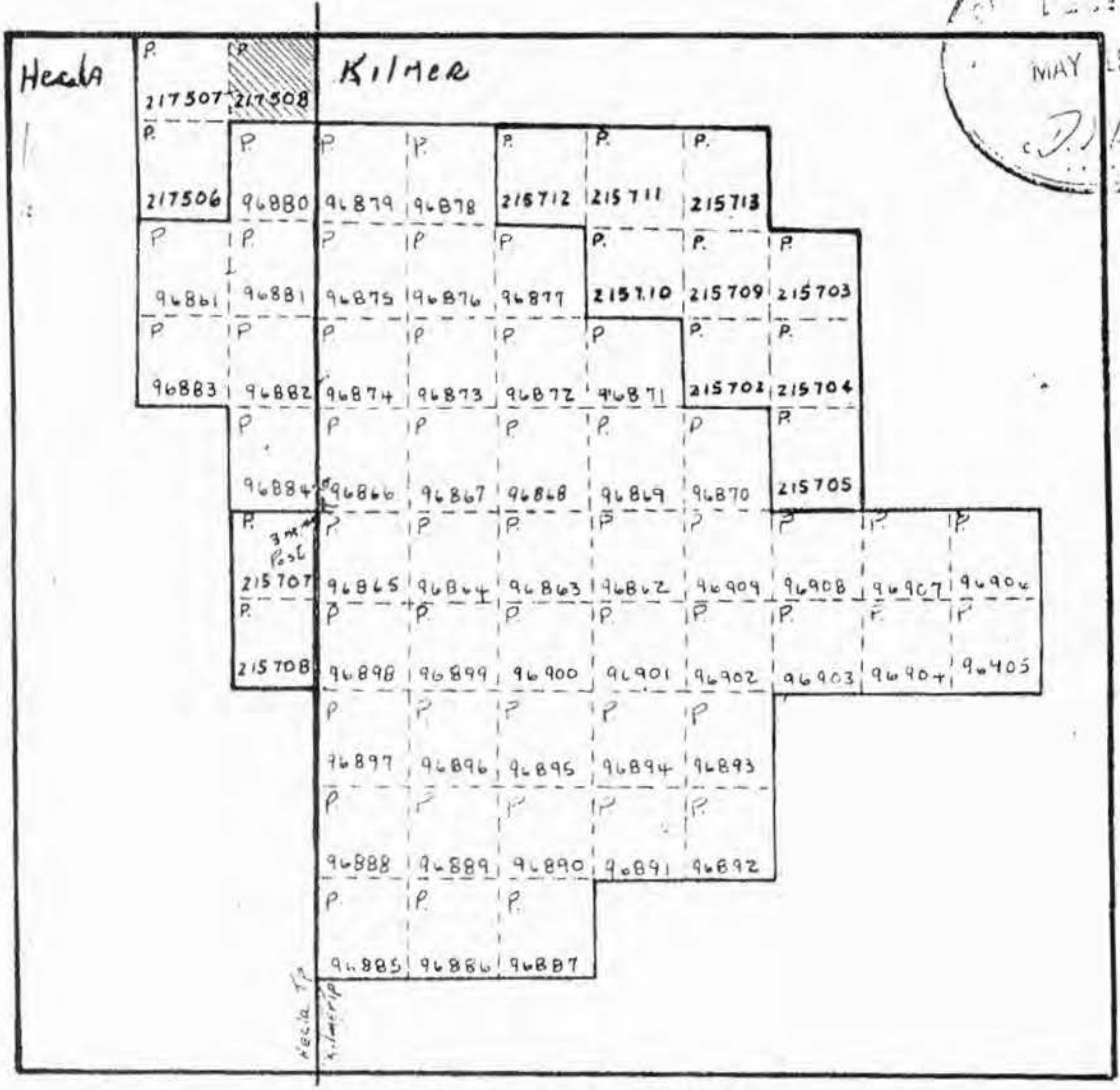
DRILLED MARCH 1970

43 YEARS AGO

ASSESS. FILE

T-1336

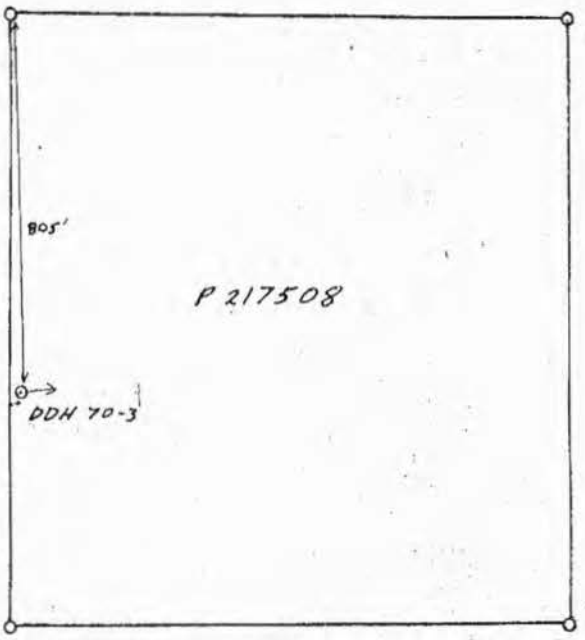
D.D. #70-3



KEY MAP
1 INCH = 1/2 MILE

1307

ASSESSMENT WORK
F.1336



1" = 400'

ASSESSMENT WORK
T.1336

1307

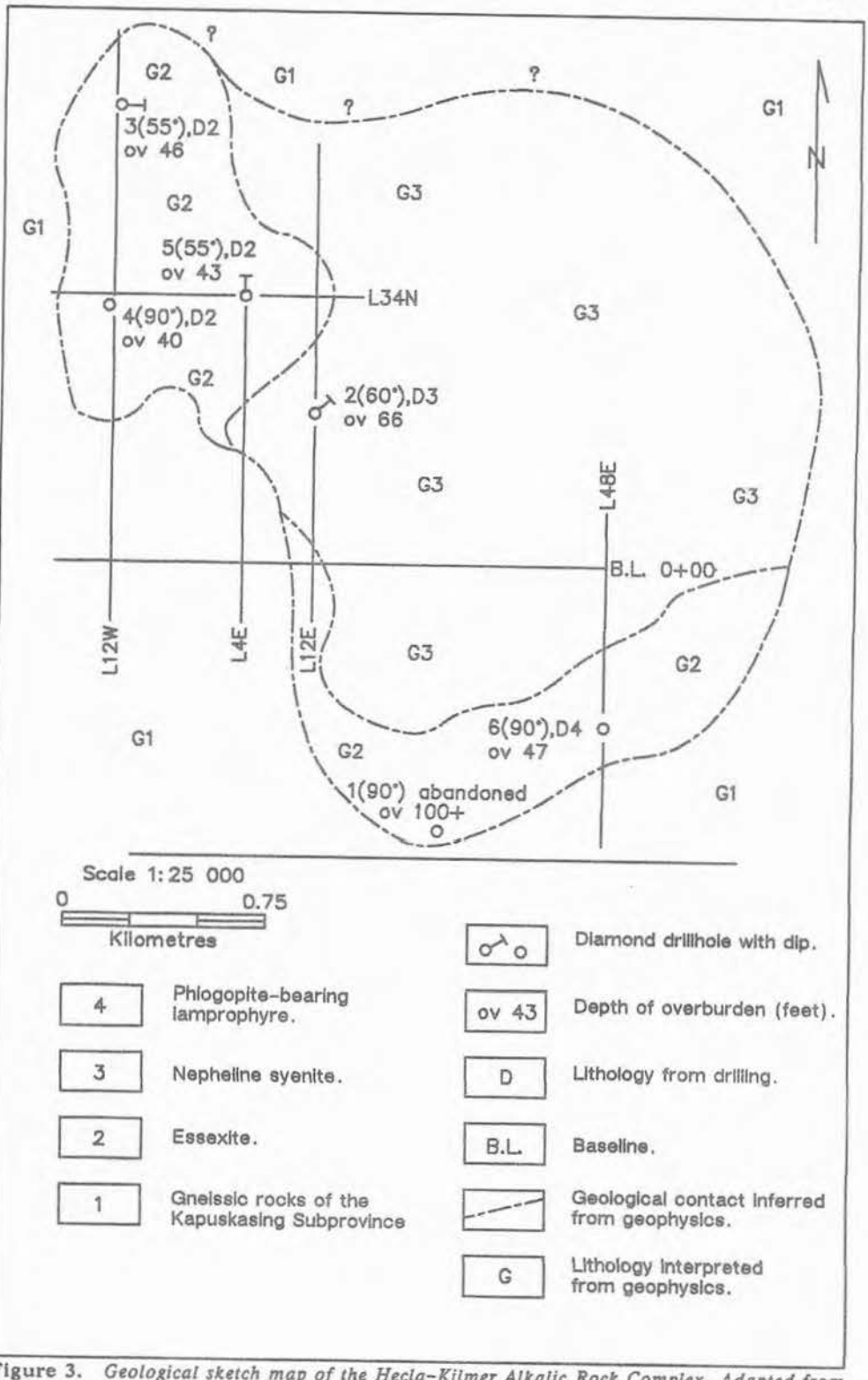


Figure 3. *Geological sketch map of the Hecla-Kilmer Alkalic Rock Complex. Adapted from company plans (Assessment Files Research Office, Ontario Geological Survey, Toronto).*

DRILL HOLE LOCATIONS

DIAMOND DRILL RECORD

PROPERTY ASHLAND-ELGIN (P. T. George) HOLE NO. 70-1

TOWNSHIP Kilmer PAGE NO. 1

LOCATION L28E
335

CORE LOCATION NO CORE

DATUM

BEARING 000°

DIP 55°

ELEVATION

STARTED February 2, 1970

COMPLETED February 7, 1970

DEPTH 330'

proposed depth 700'

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE
0 - 330	OVERBURDEN: 0 - 30 - muskeg		
	30 - 50 - clay		
	50 - 330 - predominantly bouldery gravel and sand, with thin "black ground" layers similar to muskeg		
330	End of Hole - rod jammed & broken 230'		
	- Left in hole: 100' BX rod		
	5' mud bar		
	1 mud bit + shell		
	90' BX casing		
	1 BX shoe bit		
	- Casing pulled: 40' BX		

Drilled By Bradley Bros. Ltd.

Signed

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY ASHLAND-ELGIN (P. T. George) HOLE NO. 70-2

TOWNSHIP Kilmer PAGE NO. 1

LOCATION L12NE
19+25N

CORE LOCATION Pike River Camp

DATUM

BEARING N.E.

DIP 60°

STARTED February 10, 1970

COMPLETED February 18, 1970

DEPTH 507.2'

ELEVATION

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE
0 - 216	OVERBURDEN: casing		
216 - 240	Mudstone: (Devonian) dark brownish red, approx. 25% lighter coloured angular to subrounded lithic fragments		
	- 216 - 230 - extremely soft core - 80% core lost		
240. - 390	Nepheline Syenite: coarsely crystalline leucocratic rock composed essentially of plagioclase feldspar, angular very fine grained syenite fragments and nepheline with a variable proportion of dark mafic minerals (fine grained hornblende and/or pyroxene) in crystal interstices-minor carbonate (may be up to 20%)		
	-240 - 286.5: highly weathered, decomposed and stained (iron oxide) - core very friable (approximately 50% recovery) - 277 - 283: blue-green iron reduction stain	70-2-1	260-262.5
	-301.5 - 304: mesocratic section - medium grained mass of fragments, nepheline	70-2-2	301.5-304

Drilled By Bradley Bros.

Signed
SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY ASHLAND-ELGIN (P. T. George) HOLE NO. 70-2

TOWNSHIP Kilmer PAGE NO. 2

LOCATION CORE LOCATION STARTED

DATUM COMPLETED

BEARING DEPTH

ELEVATION DIP

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE				
	and carbonate about coarse plagioclase crystals						
	-326 - 328: high carbonate section - 60% - 80% chalky calcite						
	-328: 4" vein of dark grey carbonate with 1½" section at lower contact enclosing large (up to ¼") greenish-white clots having the appearance of weathered orthoclase (H. = approx. 4)						
	-340 - 385: coarsely crystalline mesocratic section - crystals generally angular and ragged - length up to 2"						
	-385 - 390: rock as at 340 becoming increasingly altered and lighter coloured down-hole - core soft, much broken and ground						
390 - 399	Phonolite(?): very fine grained buff - mottled red-brown rock much like a mudstone with a						

ASSESSMENT WORK

I.1336

Drilled By Bradley Bros.

Signed

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY ASHLAND-ELGIN (P. T. George) HOLE NO. 70-2

TOWNSHIP Kilmer PAGE NO. 3

LOCATION CORE LOCATION STARTED

DATUM COMPLETED

BEARING DEPTH

ELEVATION DIP

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE				
	trachytic texture caused by stretched amygdules						
	oriented approximately 40° c.p. - leaching (?)						
	has emptied many of the amygdules of the soft						
	powdered-white mineral filling others.						
	- buff colour increases downhole						
399 - 410	Phonolite (?): as at 390 excepting little red	70-2-3	405-407.5				
	staining - light grey microcrystalline rock						
	mottled with flesh-coloured spots						
	- 409.5 - 410: uniform medium to blue-grey colour						
	unaltered section (?)						
410 - 456	Nepheline Syenite: as at 340	70-2-4	410-412.5				
	- 450 - 456: soft weathered section - much						
	broken & ground (fault ?)						
456 - 462.5	Phonolite (?): as at 409.5 - amygdules	70-2-5	457.5-460				
	oriented approximately 40° c.p. - carbonate						
	cavity filling - appearance much like "fourchite"						
	of Oka P.Q.						
462.5 - 507.5	Nepheline Syenite: as at 380 except heavy red	70-2-6	490-492.5				
	staining of rock fragments and some feldspar						

ASSESSMENT WORK

T.1336

Drilled By Bradley Bros. Ltd.

Signed

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY ASHLAND-ELGIN (P. T. George) HOLE NO. 70-2

TOWNSHIP Kilmer PAGE NO. 4

LOCATION CORE LOCATION STARTED

DATUM COMPLETED

BEARING DEPTH

ELEVATION DIP

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE				
	crystals.						
507.5	End of hole						
	Acid tests: 250' - 64°						
	505' - 64°						
	Casing pulled: Left in hole:						
	AX - 50' 150'NW casing + shoe bit						
	BX - 50' 150'BW casing + shoe bit						
	272'AX casing + shoe bit						

ASSESSMENT WORK
T.7336

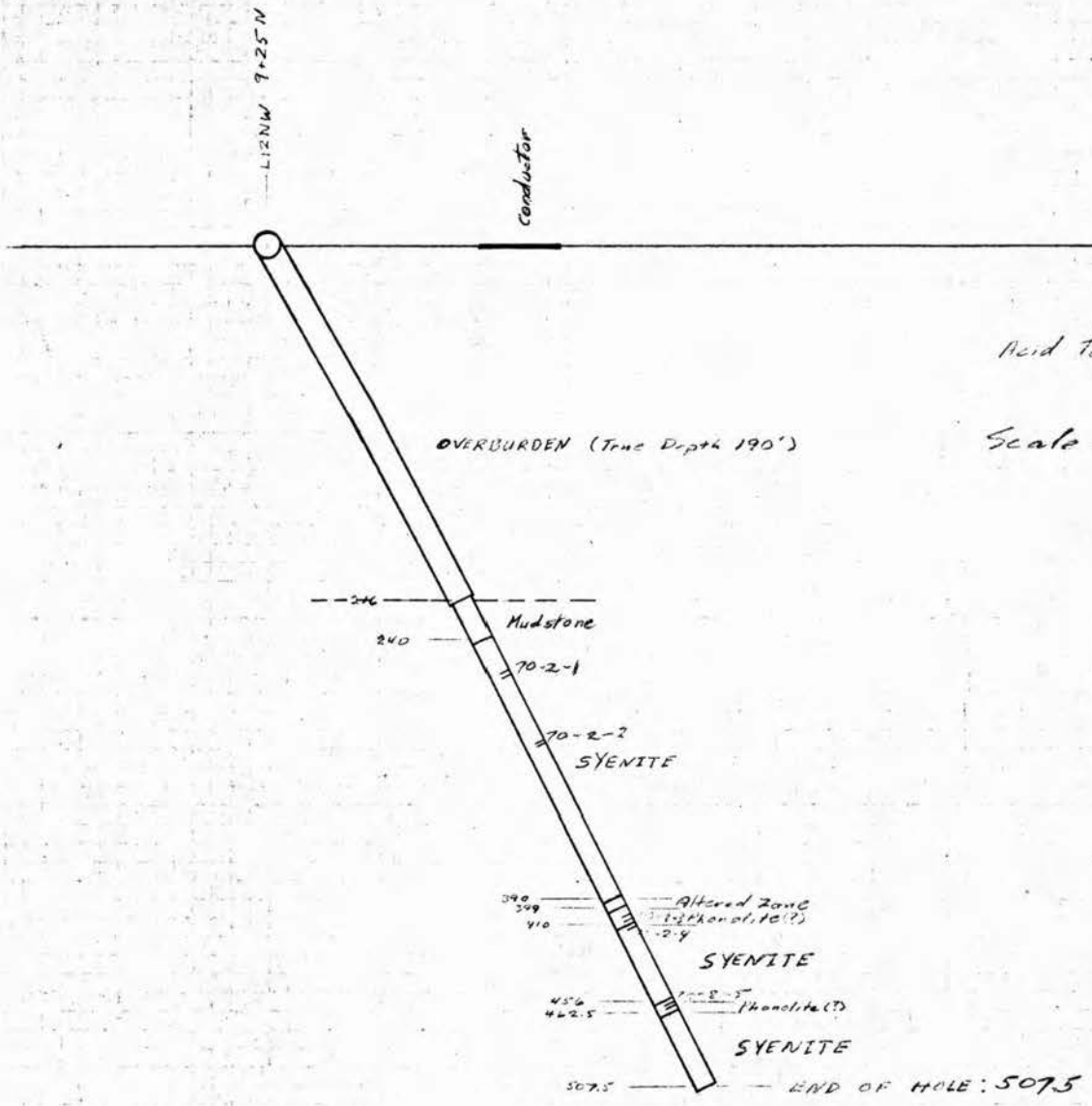
Drilled By Bradley Bros.

Signed
SHIELD GEOPHYSICS LIMITED

Ashland-Elgin Carbonatite Project

D.D.H. 70-2

Scale 1" = 100'



T-1

DIAMOND DRILL RECORD

1307

PROPERTY ASHLAND-ELGIN (R. Draper ~~F.T. George~~) HOLE NO. 70-3

TOWNSHIP Hecla PAGE NO. 1

LOCATION L12W 56+80N

CORE LOCATION Pike River Camp

DATUM

BEARING E

ELEVATION

DIP 55°

STARTED March 2, 1970

COMPLETED March 5, 1970

DEPTH 702.7

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	
0 - 150	Overburden: casing			
150 - 181	Mudstone: heavily weathered, very soft, dark red-brown Devonian mudstone - 5% recovery - casing extended to 191'			
181 - 702.7	Altered Olivine Peridotite: dark grey to black and brownish colour, coarse to very fine grained rock composed essentially of pyroxene, hornblende, apatite and rock fragments with accessory magnetite biotite (phlogopite (?)), minor pyrite (trace to 10%)	70-3-1	200-202.5	
		70-3-2	587.5-590	
		70-3-3	597.5-600	
		70-3-4	645-647.5	
		70-3-5	670-672.5	
	- 10% to 90% calcite chiefly as cavity filling between breccia fragments and rheomorphic veins often associated with an increase in sulphide content.			
	-coarse grained fractions of rock have much the appearance of kimberlite due to the large proportion of rock fragments in a mafic matrix			
	-fracture sets 40°, 30°, 65° cp			
	- 180 - 191: BX core - weathered, broken and			

Drilled By Bradley Bros. Ltd.

Signed

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

1307

PROPERTY ASHLAND-ELGIN (R. Draper / ~~Pt George~~) HOLE NO. 70-3

TOWNSHIP Hecla PAGE NO. 2

LOCATION _____ CORE LOCATION _____ STARTED _____

_____ DATUM _____ COMPLETED _____

_____ BEARING _____ DEPTH _____

ELEVATION _____ DIP _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE				
	ground 180 - 182, 190 - 191.5, - calcite -						
	interfragmental coarse breccia						
	- carbonate veining (fracture filling):						
	238.5 (2" carbonate-magnetite-fragmental), 283						
	(2½"), 287 - 287.6 (mylonite/carbonate), 292.25						
	(1"), 296 - 296.5 (crush breccia), 302.8 (3" carb.-						
	magnetite-fragmental with 8" very fine grained						
	borders), 307.5 (6" calcite-fragmental vein with						
	½" magnetite inclusion and ¼" magnetite veinlet)						
	- 316.5, 317, 317.4, 319, 319.5 - 320.4 (carbonate-						
	fragmental invasion veins - brownish - grey						
	alteration borders)						
	- 322 - 322.75 (fine grained borders), 327.8 -						
	326.5 (1' fine grained lower border), 329.5 (1½"),						
	330.8 - 331.2, 334.7 (3" calcite - fluorite vein),						
	337 - 337.5, 340.6 (6"), 360 - 360.6, 364 - 365,						
	366 - 366.5 (mylonite - carbonate) 367.3 - 368						
	(carbonate-fragmental-mylonite section - fine						
	grained borders), 385.6 (1½") 392.6 - 393.5						

Drilled By Bradley Bros. Ltd

Signed _____
SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

130

PROPERTY ASHLAND-ELGIN (R. Draper) HOLE NO. 70-3

TOWNSHIP Hecla PAGE NO. 3

LOCATION CORE LOCATION STARTED

DATUM COMPLETED

BEARING DEPTH

ELEVATION DIP

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE
	(carbonate-fragmental-mylonite), 399.7 - 400.8, 401.8 - 402.3, 413.5, 415, 419 - 420, 425.7, 429.5, 429.5 & 430 (partial cavity filling calcite - red surface stain 430), 469.5 (veining and partial cavity filling), 474 (1"), 475 - 475.3, 485.9 - 486.3, 506 - 507.3, 534.8 (cavity filling), 545.7 (2"), 552 (3"), 565.2 (2"), 565.9 (2"), 625.2 - 626 (vein - (?) flow banding 30°cp), 634.2 - 636.8, 645 - 653, 654.3 - 655, 655.9 - 656.8, 665 - 666, 666.5 - 667.5, 675.9 (½"), 679.7 (½" red stain), 688 (1") 688.7 (2"), 691.5 (1"), 693 (3"), 697.3 - 698.7, 700.3 - 700.8, 701.8 - 702.3; - much of veining appears to be cavity filling - generally grey, medium grained and well crystallized - carbonate invasion breccia (pyroxenite breccia with calcite stringers and veins about fragments): 245 - 275.6, 344.1 - 347, 352.5 (8"), 353.7 - 354.7, 362.7 - 363.5, 371 - 372 (weathered,		

Drilled By Bradley Bros.

Signed

SHIELD GEOPHYSICS LIMITED

1307

DIAMOND DRILL RECORD

PROPERTY ASHLAND-ELGIN (R. Draper) HOLE NO. 70-3

TOWNSHIP Hecla PAGE NO. 4

LOCATION CORE LOCATION STARTED

DATUM COMPLETED

BEARING DEPTH

ELEVATION DIP

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE
	brown stained - core ground at 439.5 (fault ?))		
	442 - 447 (446.9: 2" high 40% biotite vein -		
	443.3 - 446.5 brownish-grey zone partially		
	oxidized ?), 454.5 - 456.3 (partially weathered		
	gouge 456.2 - 456.3), 477 - 480.7 (very coarse		
	breccia) 499 - 500, 512.2 - 513.6, 522.3 - 523.3,		
	528.8 - 531, 538.7 - 542, 557.2 - 558.6, 604.5 -		
	606.1, 629.4 - 632.5, 640 - 642.2, 659 - 662,		
	663 - 665		
	- 203.5 - 204, 204.5 (2") weathered gouge		
	- 231.1 - 234.4 - brecciated syenite (xenolith ?)		
	banded 50° cp, contact 234.4 (25° cp) sharp		
	- 289.4, 294.3 (4"), 329 - 329.5 (52° cp) -		
	mylonite		
	- 308.5 - 309, 314 - 315.6 (contacts 30°, 17° cp)		
	fine grained sections		
	- 338.5 - fracture 19° cp		
	- 347.5 - fractures 26° , 55° cp		
	- 351 - 22° cp fault (¼" carbonate gouge)		

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DIAMOND DRILL RECORD

PROPERTY ASHLAND-ELGIN (R. Draper) HOLE NO. 70-3

TOWNSHIP Hecla PAGE NO. 5

LOCATION CORE LOCATION STARTED

DATUM COMPLETED

BEARING DEPTH

ELEVATION DIP

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE				
	- 358 - 72° fault, 359: 30° fault (minor)						
	- 413.5 - 429.5: fine breccia - 40% medium sized						
	(5 mm) partially incorporated syenitic fragments						
	giving mottled appearance - less than 1% carbonate						
	except in veins and stringers						
	- 456.3 - 468.5: as at 413.5 except more variable						
	fragment size and content-coarser last 3'						
	(serpentine matrix) - 468.3: 1½" X ¾" granite						
	pebble						
	471.1 - 473.1: fine grained carbonate-breccia						
	(syenitic) section (xenolith ?)						
	- 537: 20° lightly weathered fault (1" carbonate						
	gouge)						
	- 555: 2" vein (quartz-feldspar-calcite-pyrite-						
	fragmental) in 8" calcite vein						
	- 558.6 - 560: rock breccia (pyrox. matrix)						
	- 562.5 - 566: alteration zone and gouge ½"						
	plagioclase -calcite vein at 564.3						
	- 566 - 571 - as at 558.6						

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DIAMOND DRILL RECORD

1307

PROPERTY ASHLAND-ELGIN (R. Draper) HOLE NO. 70-3

TOWNSHIP Hecla PAGE NO. 6

LOCATION CORE LOCATION STARTED

DATUM COMPLETED

BEARING DEPTH

ELEVATION DIP

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE
	- 571 - 604: coarse shatter breccia of brown-black (altered) angular fragments separated by calcite, frequently calcite-fluorite-pyrite filling as at 598 - 599.6		
	- 580.5 - 581.5: xenolith (?) - very fine grained carbonate matrix breccia - lower contact 30° cp		
	- 604: 40° fracture		
	- 662.7: ½" orange-red carbonate vein with ¼" purple fluorite crystals		
	- 624 - 702.7: highly brecciated and altered - kimberlitic texture		
702.7	END OF HOLE		
	Acid Test: 59° 701'		
	Casing Pulled 46' AW		
	Left in hole: 80' NW + shoe bit		
	150' BW + shoe bit		
	134' AW + shoe bit		
	(sand seized casing)		

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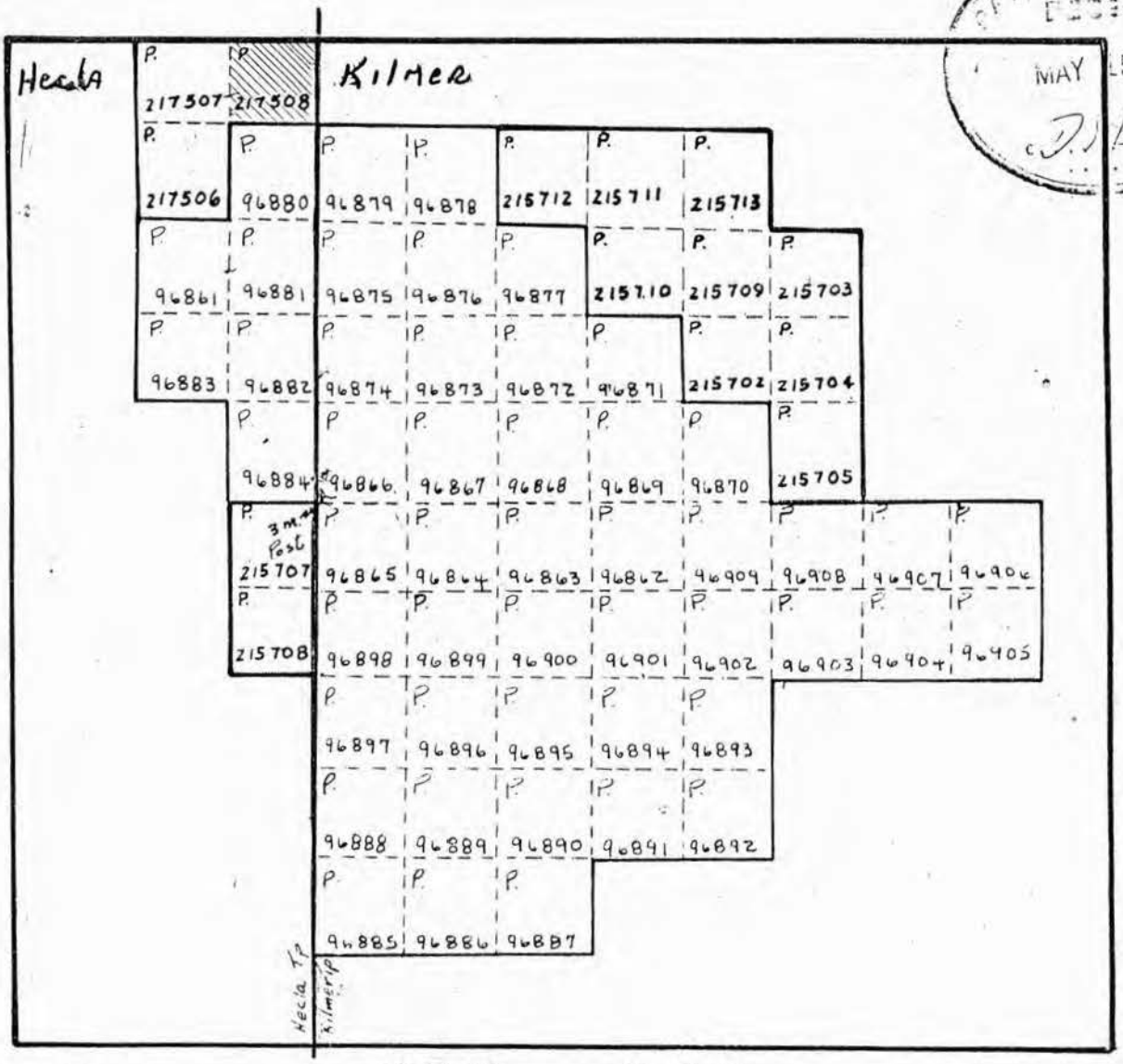
Signed W. Alexander

SHIELD GEOPHYSICS LIMITED

D.D. #70-3

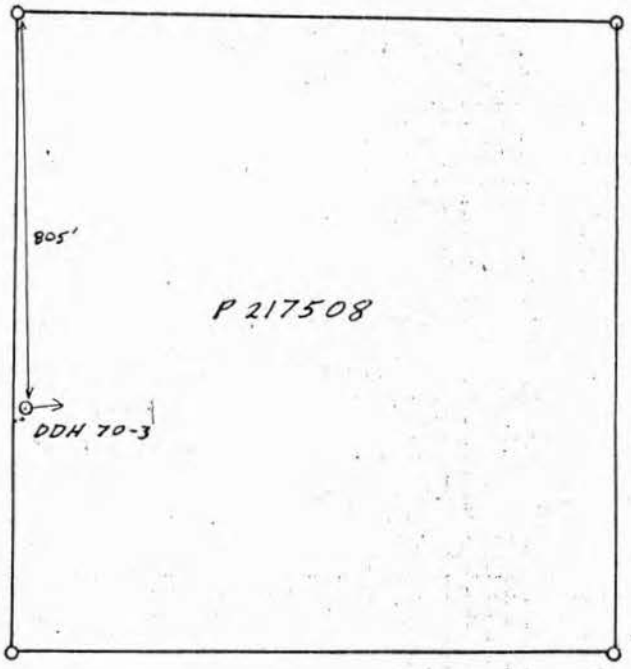


Drilled Claims

KEY MAP
1 INCH = 1/2 MILE

1307

ASSESSMENT WORK
f.1336



1" = 400'

ASSESSMENT WORK
T.1338

1307

DIAMOND DRILL RECORD

PROPERTY ASHLAND-ELGIN (P. T. George) HOLE NO. 70-4

TOWNSHIP Hecla PAGE NO. 1

LOCATION L12W 33N

CORE LOCATION Pike River Camp

DATUM

BEARING

ELEVATION

DIP 90°

STARTED February 20, 1970

COMPLETED February 22, 1970

DEPTH 451

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE
0 - 130	OVERBURDEN: casing		
130 - 451	BASIC BRECCIA: dark grey to black rock consisting primarily of a diabasic mixture of fine to medium grained plagioclase, pyroxene and fine to micro-crystalline rock fragments of similar rock composition to 2% to 25% of the mass magnetite, 0 to 40% carbonate (mostly as stringers and coarse intrafragmental crystals), accessory olivine and trace amounts to 5% (440.5') sulphides (py, (po, cpy)) in the form of very finely crystalline stringers and blobs. - apparently unbrecciated sections are a dark, dirty grey in colour and have a medium to very fine grained granular texture - coarsely brecciated sections range from roughly equal proportions of fragmental and intra-fragmental (usually pink to white calcite, plagioclase stringers-section borders very indefinite	70-4-1 70-4-2 70-4-3 70-4-4 70-4-5	167.5-170 220-222.5 250-252.5 257.5-260 440-442.5

Drilled By Bradley Bros.

Signed

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY ASHLAND-ELGIN (P. T. George) HOLE NO. 70-4

TOWNSHIP Hecla PAGE NO. 2

LOCATION CORE LOCATION STARTED

DATUM COMPLETED

BEARING DEPTH

ELEVATION DIP

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE				
	- joint sets approx. 20° and 45° c.p.						
	- 143: 3" high carbonate section						
	- 146.5: 6" high carbonate section						
	- 151: 5" high magnetite-pyroxene section						
	- 160.5 - 161: high magnetite section (approx. 50%)						
	- 194 - 195: broken and ground core in high magnetite section (fault ?)						
	- 212 - 213: ½" carbonate vein - partial cavity filling between breccia fragments						
	- 215 - 225: heavy calcite stringering in coarse breccia.						
	- 224: partial cavity filling between breccia fragments - white calcite with red surface stain						
	- 231.5 - 239, 251 - 255.2: medium to very fine grained soft green-black sections (serpentinized (?)) with calcite-plagioclase sections at 235.8 (6")						

NIOBIUM CERIUM BERYLLIUM AREA 155'-180'

CORE STORED AT REGIONAL CORE LIBRARY

ASSESSMENT WORK

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SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY ASHLAND-ELGIN (P. T. George) HOLE NO. 70-4

TOWNSHIP Hecla PAGE NO. 3

LOCATION CORE LOCATION STARTED

DATUM COMPLETED

BEARING DEPTH

ELEVATION DIP

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE
	237 - 238 (½" vein (?)), 238.5 - 239		
	- 359.5 - 360; 361 - 362.5: broken and ground		
	core - fault (?)		
	- 362.5 - 372: carbonate stringer zone		
	- 378 - 382.5: carbonate stringer zone		
	- 417 - 451: more equigranular section, mesocratic		
	due to increase in proportion of plagioclase-		
	3' - 6' reddish sections due to red plagioclase		
	- 437.5: 1" carbonate-plagioclase veins (2)		
	- core lost: 186 - 191.4, 200.75 - 205		
	Acid Tests: 451' : 88°		
	Casing Pulled: 130' AX		
	70' BX		
	76' NW		
	Left in Hole: 54' BX casing + shoe bit		
	24' NW casing + shoe bit		

405' 430'
CERIUM CHROMIUM
NICKEL ZINC ZIRCONIUM
COBALT COPPER

CORE STORED AT REGIONAL CORE LIBRARY

ASSESSMENT WORK
T.1336

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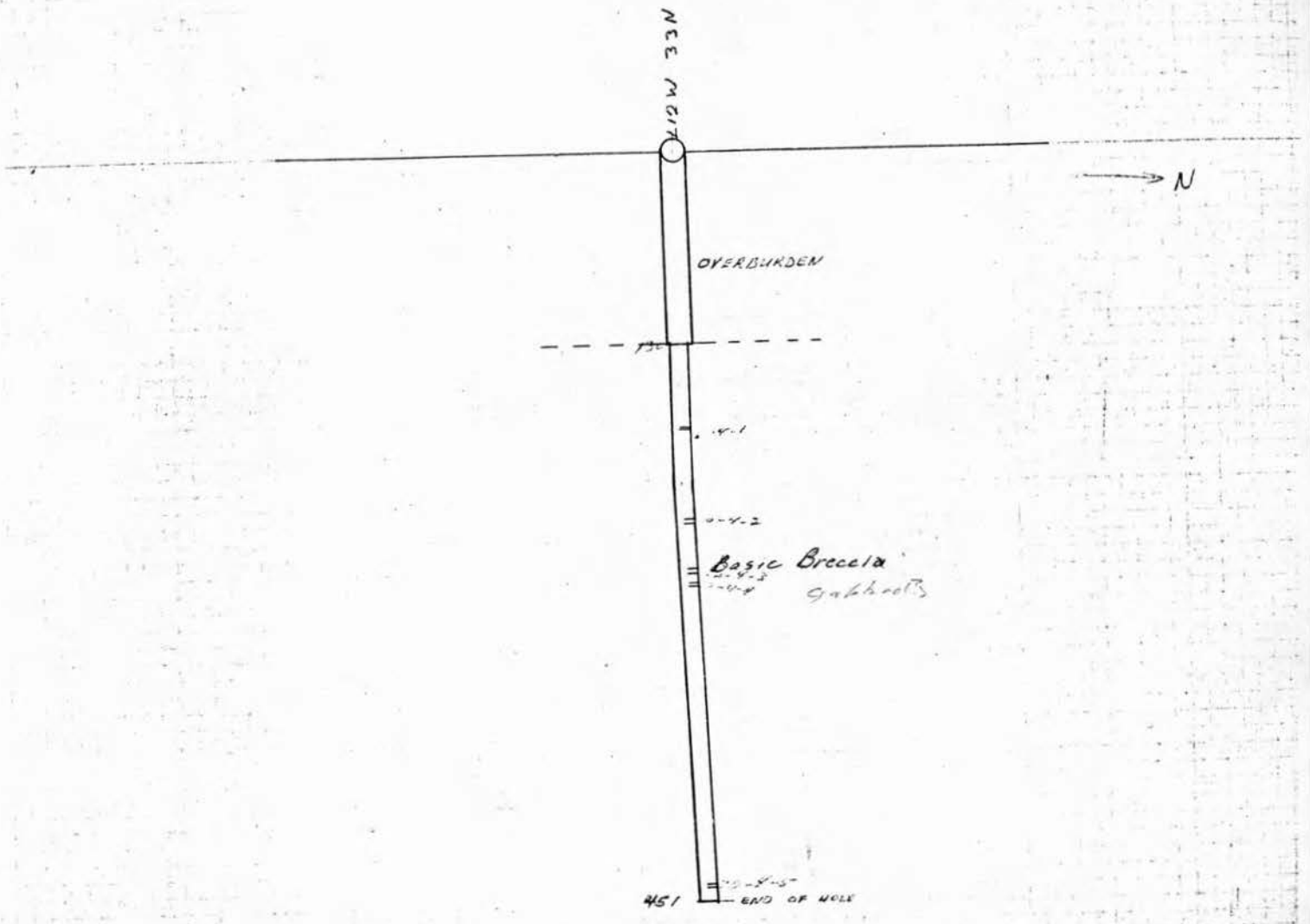
SHIELD GEOPHYSICS LIMITED

ASHLAND - ELGIN
Carbonatite Project

DDH 70 - 4

Scale 1" = 100'



DIAMOND DRILL RECORD

PROPERTY ASHLAND-ELGIN (P. T. George) HOLE NO. 70-5

TOWNSHIP Kilmer PAGE NO. 1

LOCATION L4E
34+75N

CORE LOCATION Pike River Camp

DATUM

BEARING N

DIP 55°

STARTED February 24, 1970

COMPLETED March 1, 1970

DEPTH 393'

ELEVATION

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE
0 - 142	Overburden: casing		
142 - 321	Malignite (?): medium to dark grey-reddish grey, medium grained granitoid rock, essentially plagioclase and pyroxene with accessory nepheline, magnetite, biotite and occasional red brown granules (pyrochlore ?) - fragment fractures and brecciated sections healed by a light buff-grey coloured cement of gouge, rock fragments and carbonate i.e: 144 (43° c.p.), 151 (42° c.p.), 157.5 - 159, 176.4 - 177.5, 194.5 (6"), 209 - 209.8, 218.5 - 220, 226 (6"), 231 - 232.6, 253.5 (6"), 268.6 (4"), 269.2 - 298, 299.5 (6") - carbonate rock content 0 - 5%, occasional stringers and veins as at 145, 153.5, 161, 215.5 (2" carb - mte vein), 245 (magnetite-carbonate vein), 263 (½"), 267.5 (½"),	70-5-1	147-149.5

217' - 242' STRONTIUM 267' - 292'

Drilled By Bradley Bros. Ltd.

Signed

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY ASHLAND-ELGIN (P. T. George) HOLE NO. 70-5

TOWNSHIP Kilmer PAGE NO. 2

LOCATION CORE LOCATION STARTED

DATUM COMPLETED

BEARING DEPTH

ELEVATION DIP

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE				
	275.5 - 276.5 (1" carbonate-magnetite vein),						
	280 (½" carbonate-pyroxene-magnetite vein)						
	- two joint sets at approx. 25° and 30° cp (approx. perpendicular)						
	- core lightens in colour 300 - 321, brecciated						
	320 - 321						
	- 147: fracture 51° c.p.						
	- 166.5 - 167.2: weathered fault gouge						
	- 171.5 - 174: brecciated and altered section						
	(high nepheline-red plagioclase)						
	- 189 - 192.8: breccia						
	- 194.5: 6" breccia section						
321 - 351.5	Phonolite (?): soft, amygdaloidal (calcite)	70-5-2	339.5-	342			
	microcrystalline rock buff to red brown to blue-black						
	in colour, black halos about closely spaced 1 - 1.5						
	mm. dia. amygdules (349 - 350) suggest alteration						
	of malignite (?)						
	- core much broken - core lost: 324 - 326,						
	332 - 339.5 - fractures 13°, 27°, 40°, 68° c.p.						

STRONTIUM 267 - 292

CORE STORED AT REGIONAL CORE LIBRARY

ASSESSMENT WORK f.1336

Drilled By Bradley Bros. Ltd.

Signed

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY ASHLAND-ELGIN (P. T. George) HOLE NO. 70-5

TOWNSHIP Kilmer PAGE NO. 3

LOCATION CORE LOCATION STARTED

DATUM COMPLETED

BEARING DEPTH

ELEVATION DIP

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE				
	- 344: 1/3" dia. radial clusters of stained tremolite (?) crystals on fracture surface (@5° c.p.)						
	- 329.5: 0.5 mm. magnetite crystals scattered over fracture surface 29° c.p.						
351.5 - 372	Malignite (?): as at 142' except frequent heavily weathered fractures (0-70° c.p.)						
	- 351.5 - 353: soft weathered gouge						
	- 353 - 354: ¼" feldspar (white)-nepheline (bluish-white) veining						
	- 360 - 360.7: carbonate-gouge section						
	- 363 - 370: weathered and sheared section - 70% recovery						
372 - 392	Phonolite (?): blue-grey in colour - very broken and poor recovery - otherwise as at 321						
	- core lost 382 - 387, 388.5 - 392						
393	End of hole: hole stopped due to caving						
	Acid Test: 58° at 360'						

Drilled By Bradley Bros. Ltd.

Signed

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY ASHLAND-ELGIN (P. T. George) HOLE NO. 70-5

TOWNSHIP Kilmer PAGE NO. 4

LOCATION _____ CORE LOCATION _____ STARTED _____

_____ DATUM _____ COMPLETED _____

_____ BEARING _____ DEPTH _____

ELEVATION _____ DIP _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE				
	Casing Pulled: 50' AX						
	40' BX						
	34' NW						
	Left in hole: 90' AX casing + shoe bit						
	100' BX casing + shoe bit						
	40' NW casing + shoe bit						

CORE STORED AT REGIONAL CORE LIBRARY

ASSESSMENT WORK

T.1336

Drilled By Bradley Bros.

Signed _____

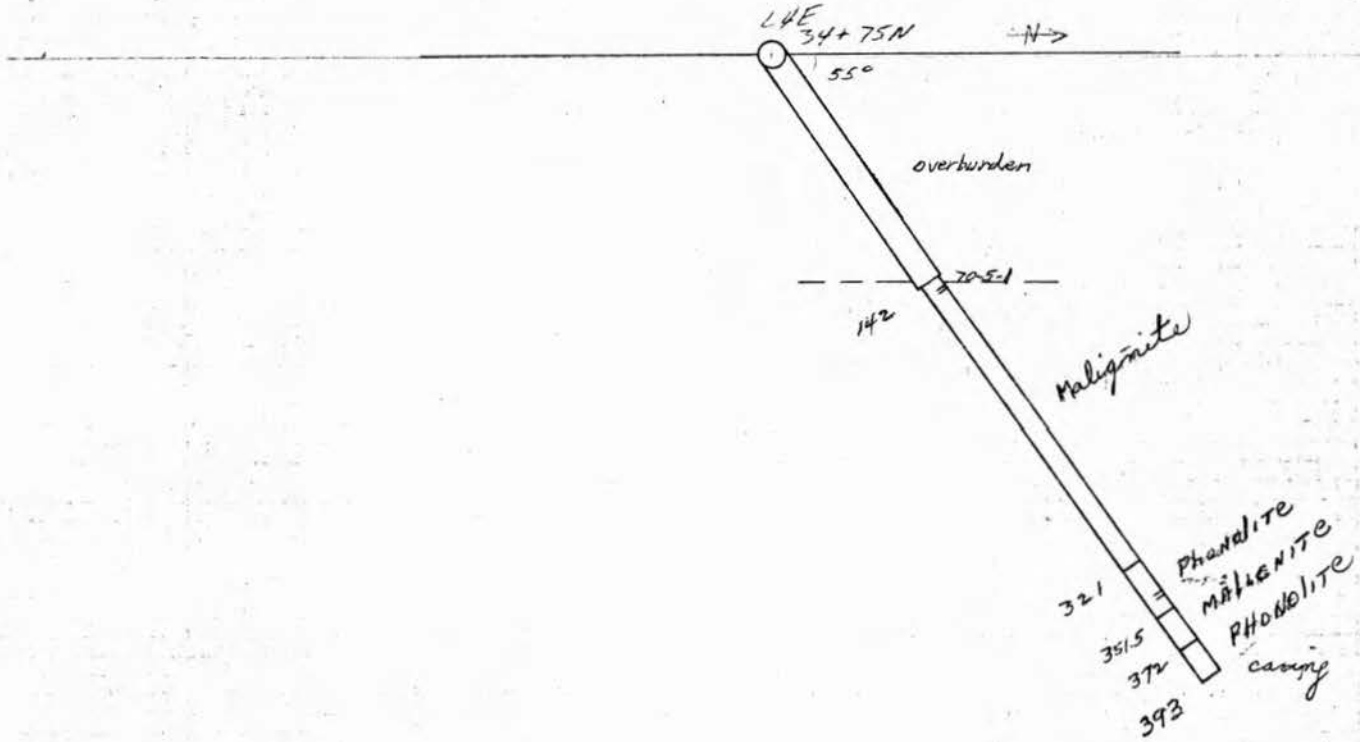
SHIELD GEOPHYSICS LIMITED

ASHLAND - ELGIN CARBONATITE PROJECT
DDH 70-5

Started 24/2/70
Completed 1/3/70

Hole stopped 392 due to caving

Acid Test 58° at 360'



T-13

DIAMOND DRILL RECORD

PROPERTY ASHLAND-ELGIN (P. T. George) HOLE NO. 70-6

TOWNSHIP Kilmer PAGE NO. 1

LOCATION L48E
19S

CORE LOCATION Pike River Camp

DATUM

BEARING 90°

ELEVATION

DIP

STARTED March 2, 1970

COMPLETED March 9, 1970

DEPTH 502'

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE				
0 - 155	Overburden: casing						
155 - 167.5	Mudstone: dark red-brown Devonian mudstone-soft and friable-much broken and ground 162.5 - 167.5: change in colour to blue-grey, very broken 60% recovery						
167.5 - 378	Pyroxenite: fine to very fine grained dark green-grey to black hornblende pyroxenite breccia - much broken and veined, usually by carbonate-magnetite portion variable 1% to 15% - trace to 10% sulphides (po, py (cpy)), often occurring as fine-grained blebs on fracture surfaces - carbonate veining and fracture filling usually finely granular calcite with minor magnetite, rock fragments and sometimes fluorite (up to 80% of vein) - veins frequently display flow banding suggesting rheomorphic emplacement (20° - 30° cp) - carbonate veining: 182 (2"), 204.8 (1") 259.8 - 260.5 (carbonate-magnetite), 261 (carbonate-feldspar-cpy vein, cp.), 262.1 - 263.4, 271.2 -	70-6-1	187.5-	190			

Drilled By Bradley Bros.

Signed

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY ASHLAND-ELGIN (P. T. George) HOLE NO. 70-6

TOWNSHIP Kilmer PAGE NO. 2

LOCATION CORE LOCATION STARTED

DATUM COMPLETED

BEARING DEPTH

ELEVATION DIP

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE
	272.5, 277 - 277.8 (½"), 280.3 - 280.9 (carbonate-py (1 - 5%)), 286.5 (1"), 287.8 (½"), 290 - 291, 296 - 296.5, 327.5 (carbonate-py stringer), 328.2 (1½") 334.2 (1"), 338.2 - 339.1 (¾"), 344.3 (2"), 345.5 - 346.4, 350 (1"), 350.5 - 353.4, 359 (¾" + fracture 60° cp) 361.7 (½"), 364 (3½)		
	- cavity filling: 183 - 185 (invasion breccia zone), 192.9 - 193.6, 285 - 285.8, 303.1 - 304 (1" carbonate-mylonite fracture filling approx. 5° cp), 312.1 - 313.8, 375 (¼" vein + partial cavity filling)		
	- 205.3 - 206: angular altered syenitic xenoliths + 1" carbonate alteration zone		
	- 215 - 254: brecciated altered zone - carbonatized larger veins up to 80% fluorite - 215 - 217: banded carbonate-magnetite-mylonite vein (50% carb.)		
	- 375 - 379: breccia plus fine grained altered zone		

Drilled By Bradley Bros.

Signed
SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY ASHLAND-ELGIN (P.T. George) HOLE NO. 70-6

TOWNSHIP Kilmer PAGE NO. 3

LOCATION _____ CORE LOCATION _____ STARTED _____

_____ DATUM _____ COMPLETED _____

_____ BEARING _____ DEPTH _____

ELEVATION _____ DIP _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE				
	- fractures: 15° (203), 60° (222), 25° (298)						
	17° (229), 22° (292), 25° (367.5)						
379 - 502	Phlogopite Pyroxenite: microcrystalline	70-6-3	415-417.5				
	pyroxenitic groundmass about large phlogopite						
	phenocrysts up to 3½ cm. dia. - groundmass also						
	containing a large proportion (10 - 30%) angular						
	to rounded rock fragments (principally carbonatite)						
	and calcite-partial replacement of some rock						
	fragments by phogopite occurs (379.5) (most						
	fragments less than 5 mm. but some larger than						
	1.5') - occasional magnetite phenocryst (2 - 8 mm)						
	- carbonate veining minor: 457.6 (4"), 462 (6"),						
	462.5 - 464 (cavity filling with angular serpentine						
	inclusions)						
	- 480.5 - 483: carbonate breccia zone						
	- 485 - 488: fine equigranular zone						
	- 498.6: 3" carb. vein + 6" equigranular						
	zone						
	- 500.5 - 502: blue-green serpentinized zone.						

480 - 505' CERIUM VANADIUM RUBIDIUM

CORE STORED AT REGIONAL CORE LIBRARY

ASSESSMENT WORK

T.1336

Drilled By Bradley Bros. Ltd.

Signed _____

SHIELD GEOPHYSICS LIMITED

DIAMOND DRILL RECORD

PROPERTY ASHLAND-ELGIN (P.T. George) HOLE NO. 70-6

TOWNSHIP Kilmer PAGE NO. 4

LOCATION CORE LOCATION STARTED

DATUM COMPLETED

BEARING DEPTH

ELEVATION DIP

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE
	- fracture + gouge 20° cp (407)		
502	End of hole		
	Acid Test: 90° at 500'		
	Casing Pulled: 70' AX		
	Left in hole: 90' AX + shoe bit		
	100' BX + shoe bit		

Drilled By Bradley Bros.

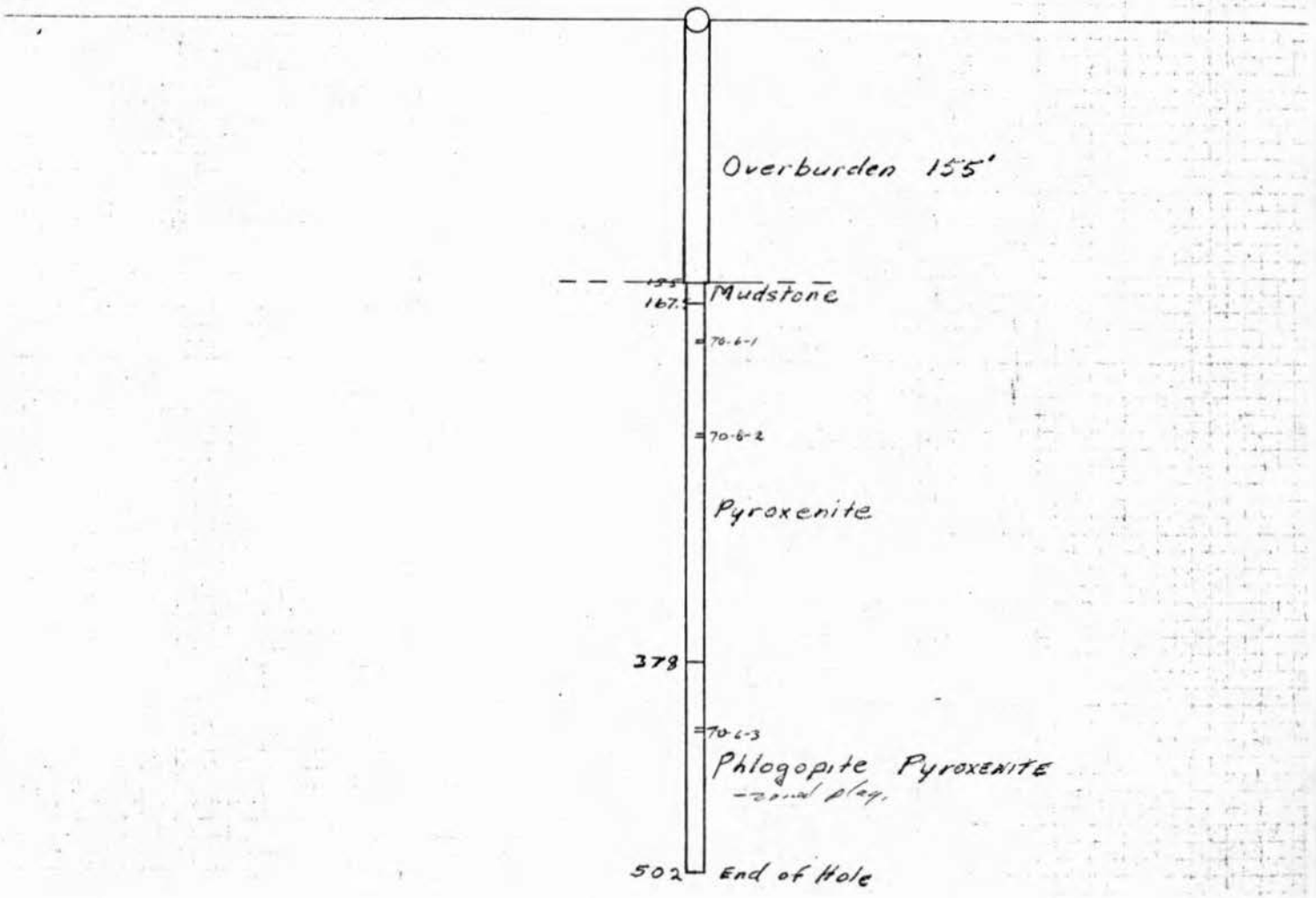
Signed

SHIELD GEOPHYSICS LIMITED

ASHLAND - ELGIN CARBONATITE PROJECT
D.D.H. 70-6

Location: L48E 19S
Dip: 90°
Depth: 502'
Target: Mag. High
Scale 1" = 100'

Acid Test: 90° at



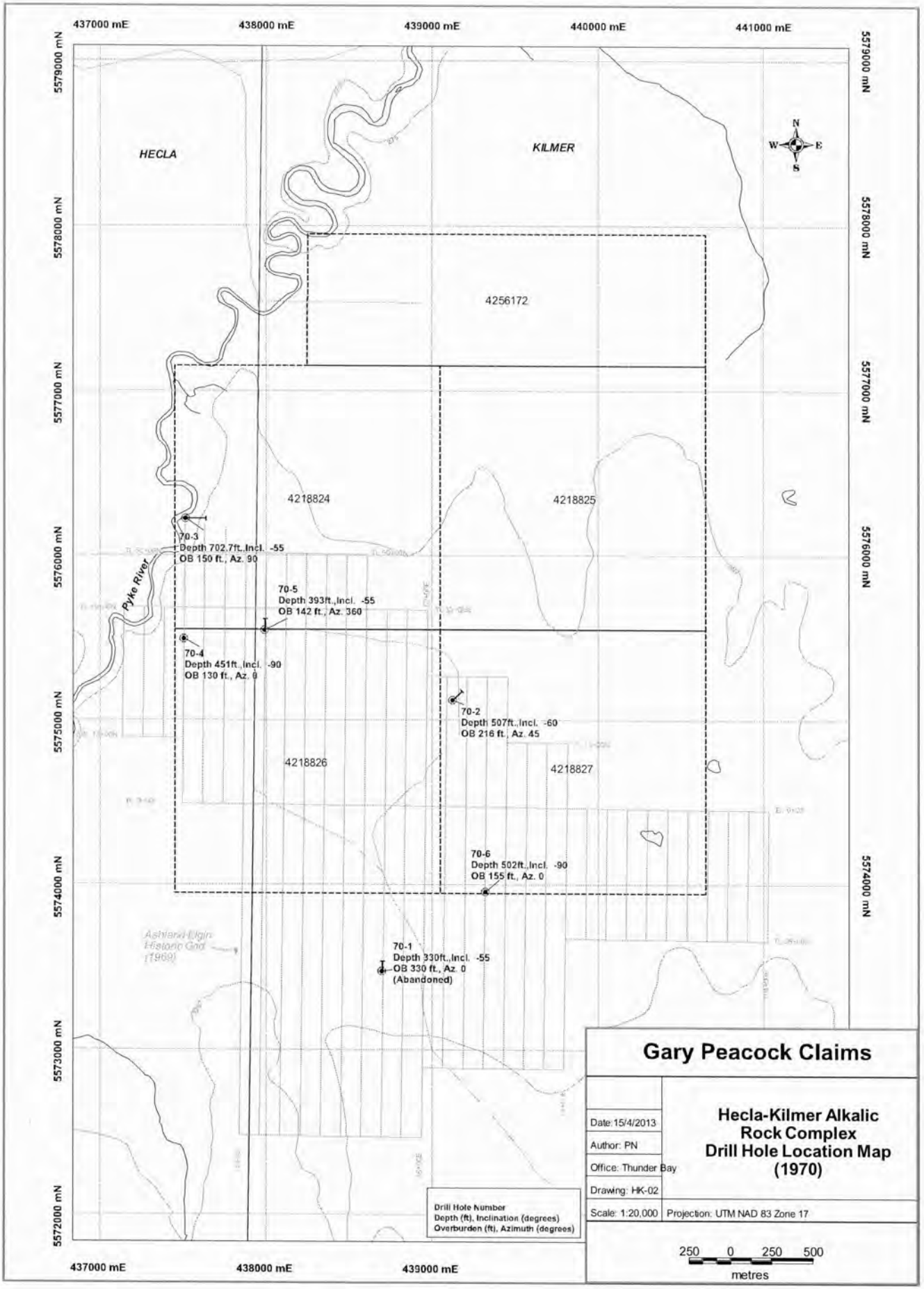
T-1.

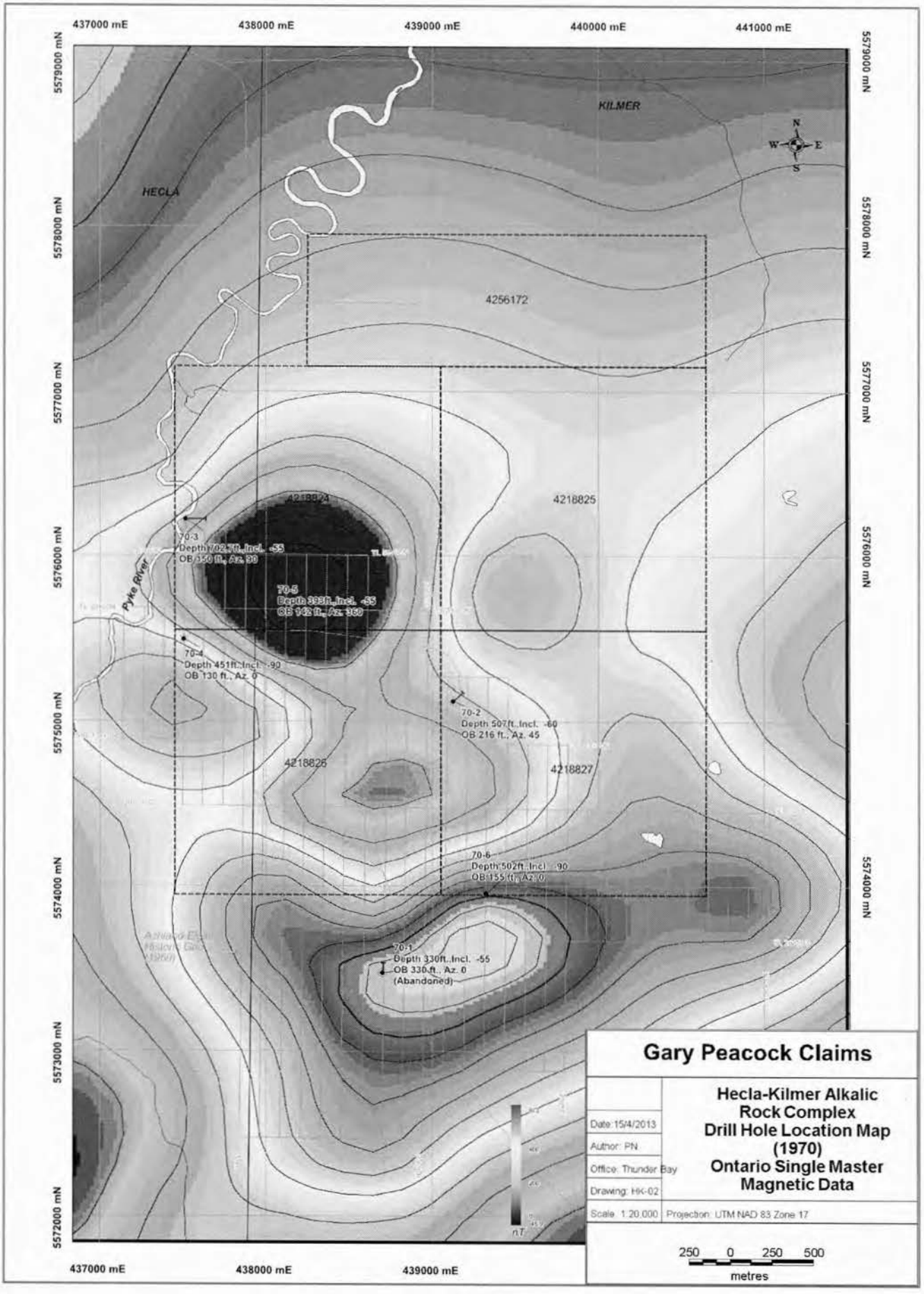
TO SOPHIE FORTIN

FROM GARY PEACOCK

IN CASE THE DRILL SECTIONS ARE NOT ALL CLEAR

	FEET	METERS
HOLE # 70-2 (ACCURASSAY N° 35801)	216' - 507.5'	65.7 - 154.3
# 70-3 (ACCURASSAY N° 35802	150' - 702.7'	45.6 - 213.6
# 70-4 (ACTIVATION LABS NO. 1078601)	130' - 451'	39.5 - 137.1
# 70-5 (ACTIVATION LABS N° 1078602)	142 - 392'	43.2 - 119.1
# 70-6 (ACTIVATION LABS N°: 1078603)	155 - 502'	47.1 - 152.6


437000 mE
438000 mE
439000 mE
440000 mE
441000 mE
5579000 mN
5578000 mN
5577000 mN
5576000 mN
5575000 mN
5574000 mN
5573000 mN
5572000 mN
HECLA
KILMER
N
W
E
S
4256172
4218824
4218825
4218826
4218827
Pyke River
70-3
Depth 702.7ft.,Incl. -55
OB 150 ft., Az. 90
70-5
Depth 393ft.,Incl. -55
OB 142 ft., Az. 360
70-4
Depth 451ft.,Incl. -90
OB 130 ft., Az. 0
70-2
Depth 507ft.,Incl. -60
OB 216 ft., Az. 45
70-6
Depth 502ft.,Incl. -90
OB 155 ft., Az. 0
70-1
Depth 330ft.,Incl. -55
OB 330 ft., Az. 0
(Abandoned)
Ashland Elgin
Historic Grid
(1969)
Drill Hole Number
Depth (ft), Inclination (degrees)
Overburden (ft), Azimuth (degrees)
Gary Peacock Claims
Hecla-Kilmer Alkalic
Rock Complex
Drill Hole Location Map
(1970)
Date:15/4/2013
Author: PN
Office: Thunder Bay
Drawing: HK-02
Scale: 1:20,000
Projection: UTM NAD 83 Zone 17
250 0 250 500
metres



Gary Peacock Claims

	Hecla-Kilmer Alkalic Rock Complex Drill Hole Location Map (1970) Ontario Single Master Magnetic Data
Date: 15/4/2013	
Author: PN	
Office: Thunder Bay	
Drawing: HK-02	
Scale: 1:20,000	Projection: UTM NAD 83 Zone 17

250 0 250 500
metres

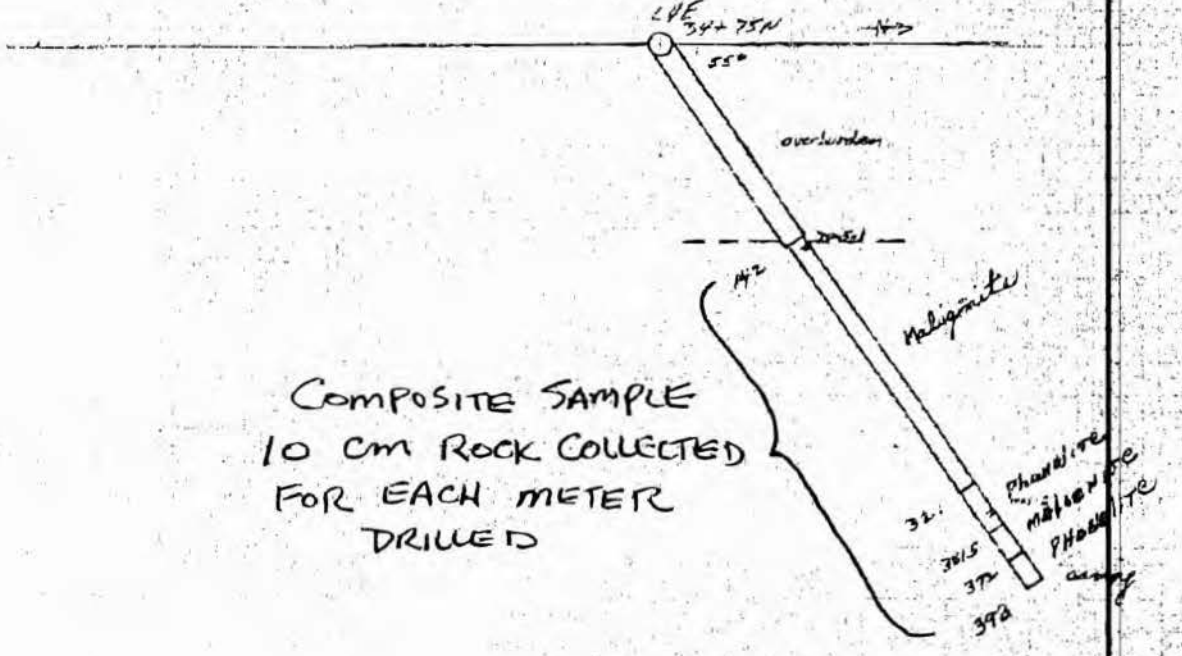
Ashland - Elgin Carbonatite Project

DDH 70-5

Started 24/2/70
Completed 1/3/70

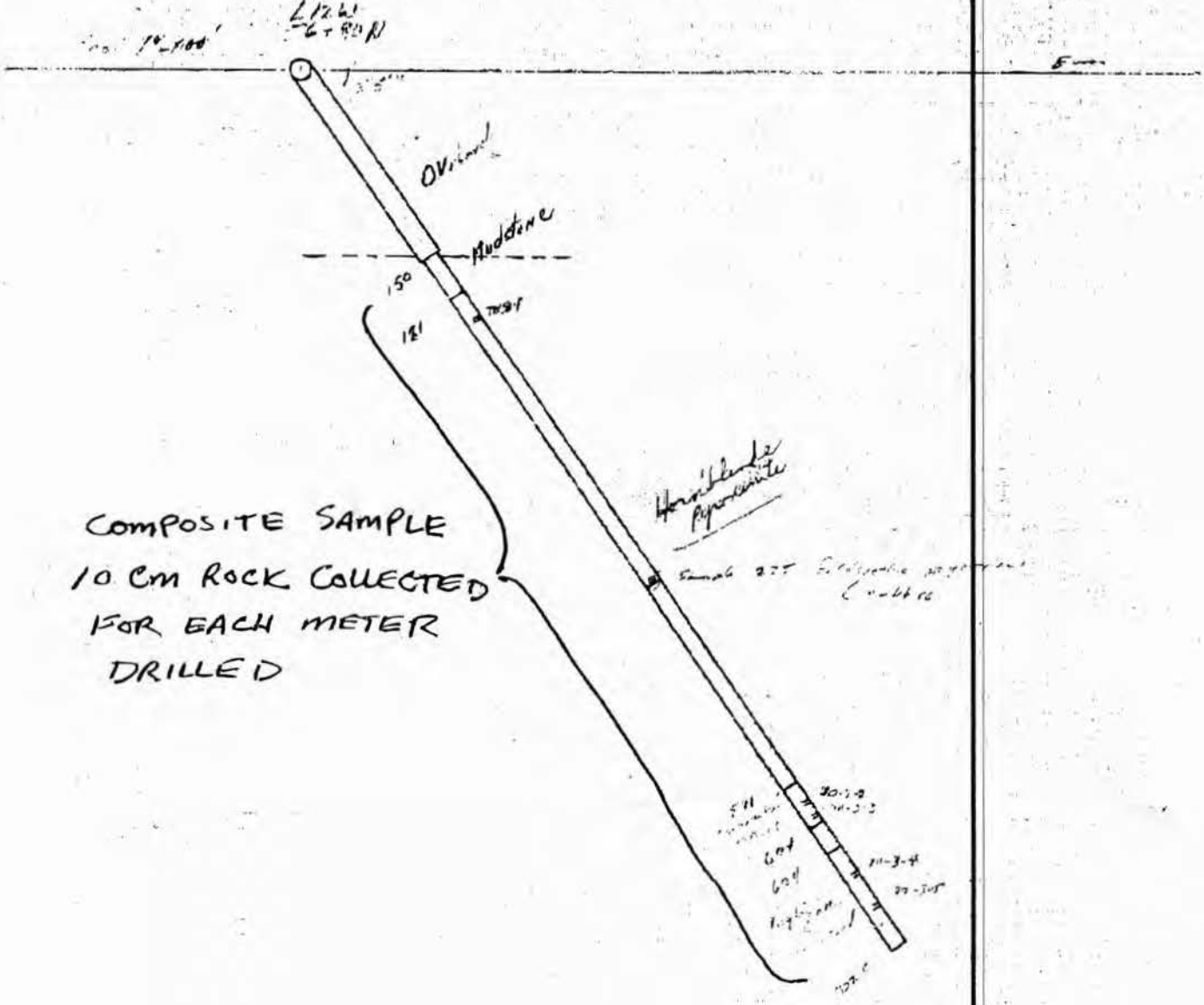
Hole stopped 392 due to caving

Acid Test 58° at 360'



T-1336

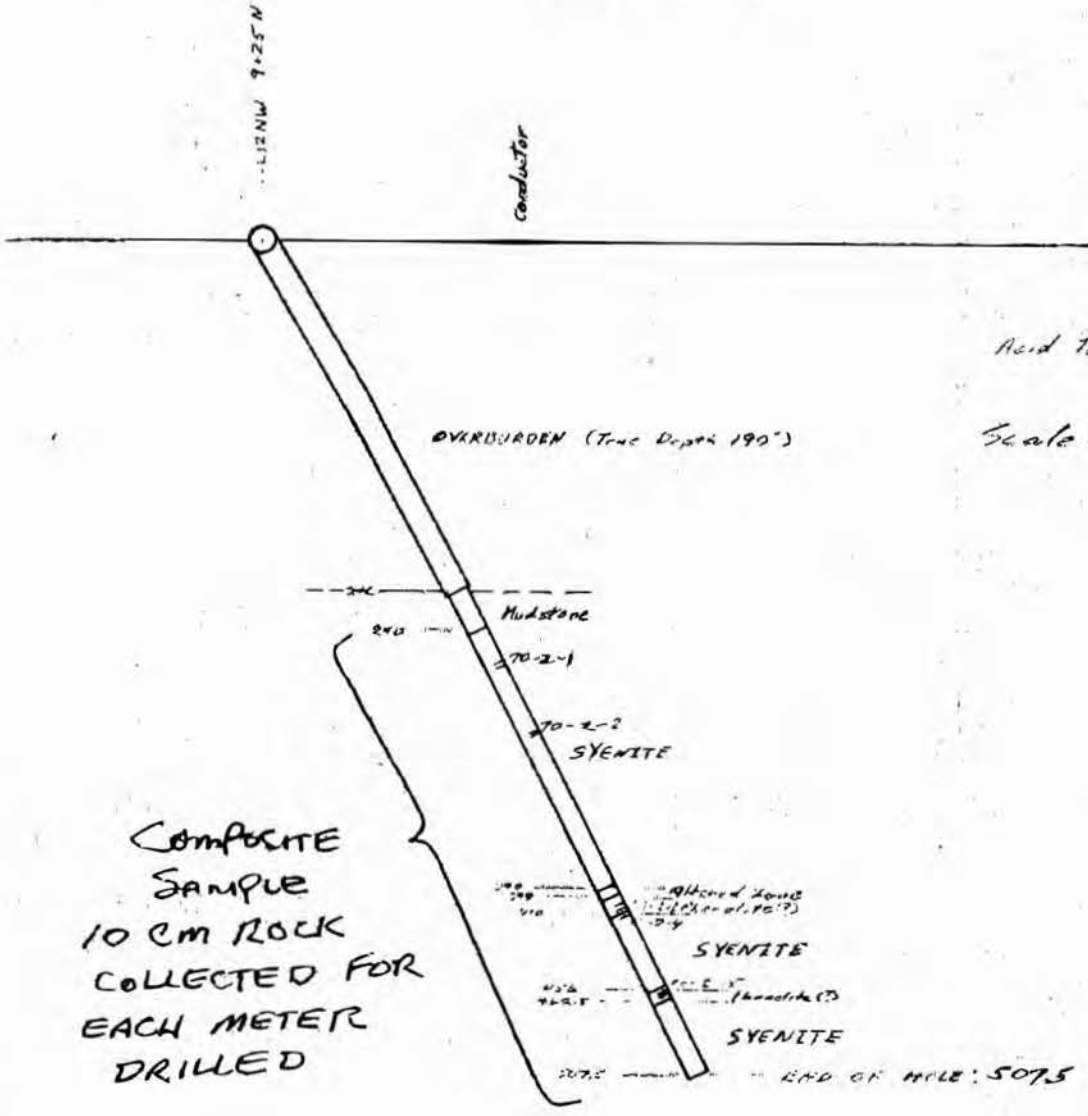
ASHLAND ELGIN CONTAMINATE PROJECT
DDH 70-3



T-1336

D.D.H. 70-2

Scale 1" = 100'



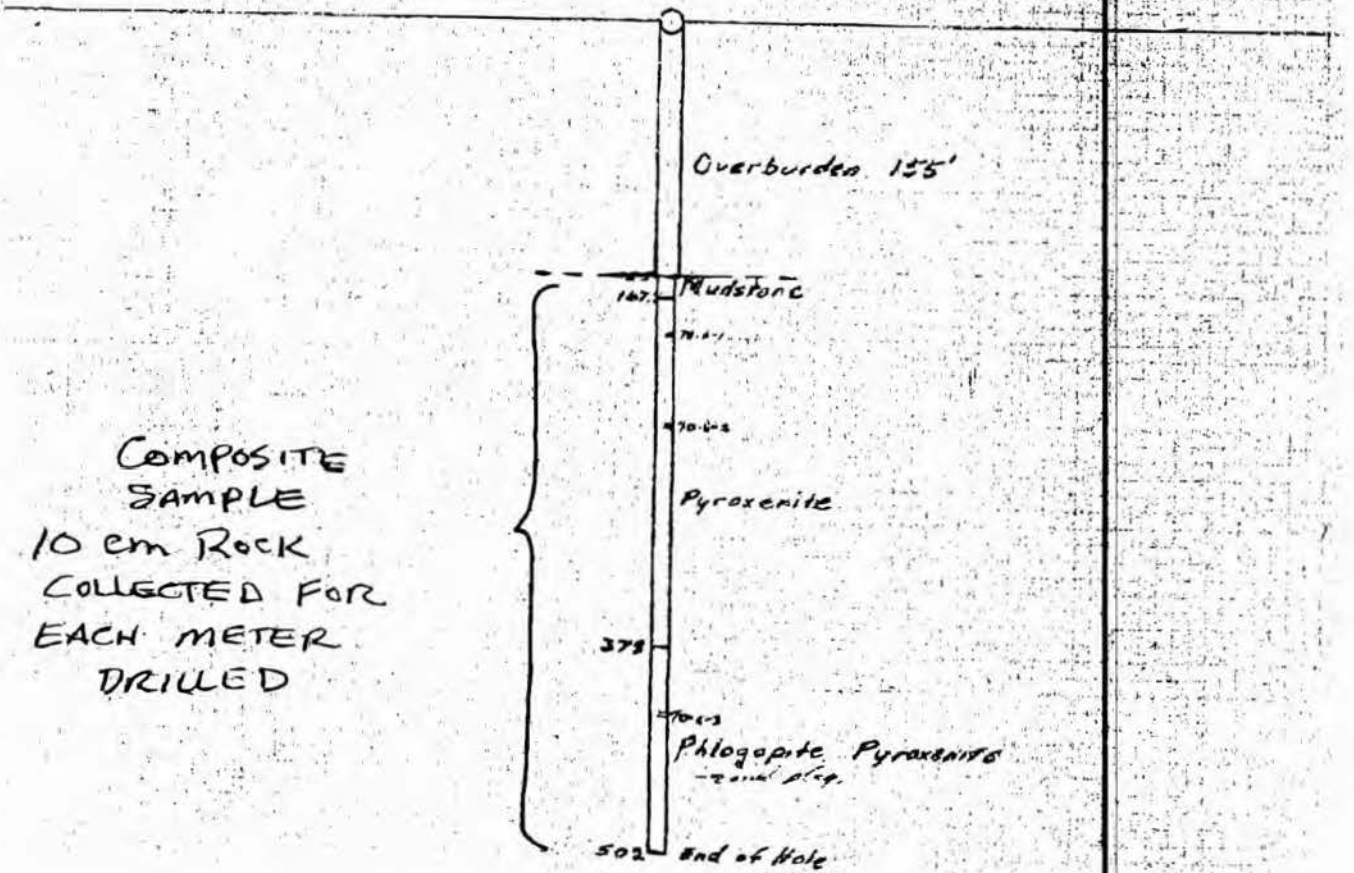
COMPOSITE SAMPLE 10 CM ROCK COLLECTED FOR EACH METER DRILLED

T-1336

ASHLAND - ELGIN CARBONATITE PROJECT
D.D.H. 70-6

Location: L48E 19S
Dip: 90°
Depth: 502'
Target: Mag. High
Scale: 1" = 100'

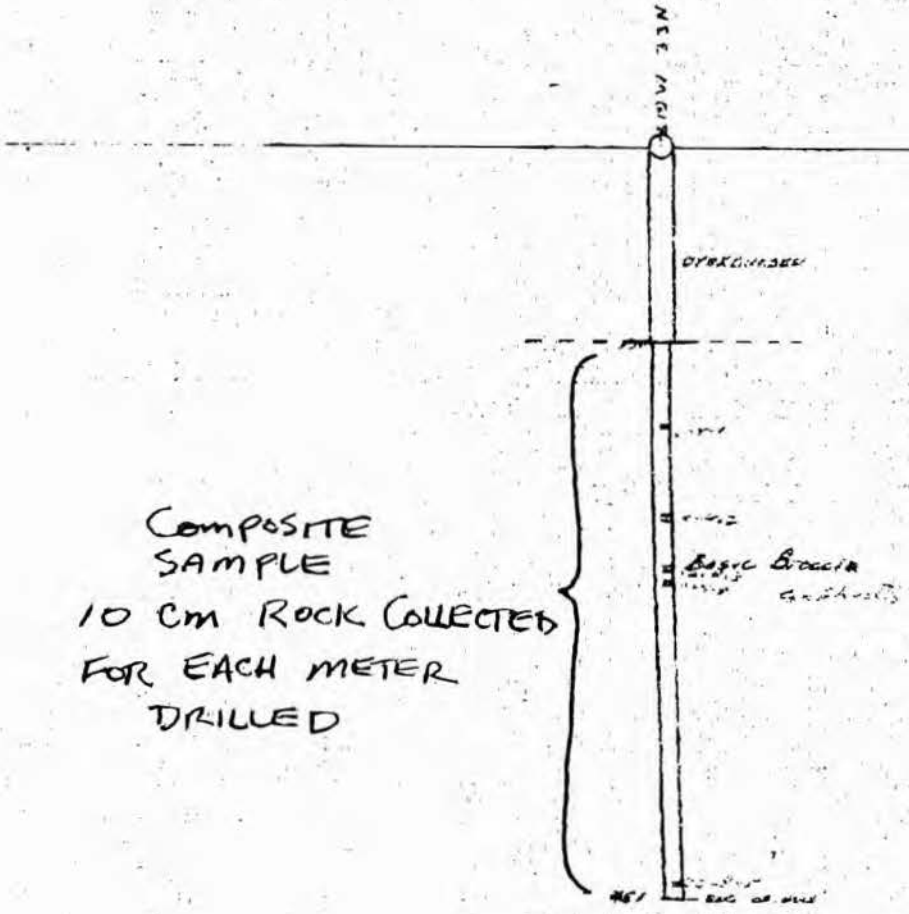
Acid Test: 90° at 500'



COMPOSITE SAMPLE
10 cm ROCK COLLECTED FOR EACH METER DRILLED

T-1336

ASHLAND - ELGIN
Carbonatite Project
DDH 70-4
1" = 100'



COMPOSITE SAMPLE
10 CM ROCK COLLECTED FOR EACH METER DRILLED

T-1336

ACCURASSAY LABORATORIES
1046 Balmain Street
Thunder Bay, ON
Canada P7B 5X5
Tel: (807) 626-1630
Fax: (807) 622-7571
www.accurassay.com
assay@accurassay.com

Peacock, Gary
Date Created: 12-12-08 11:07:12 AM
Job Number: 201243981
Date Received: 10/11/2012
Number of Samples: 1
Type of Sample: Rock
Date Completed: 10/23/2012
Project ID:

Acc #	Client ID	NAA-1 Ce ppm	ICPMS Dy ppm	ICPMS Er ppm	ICPMS Eu ppm	ICPMS Gd ppm	ICPMS Ho ppm	NAA-1 La ppm	ICPMS Lu ppm	ICPMS Nd ppm	ICPMS Pr ppm	NAA-1 Sm ppm	ICPMS Tb ppm	NAA-1 Th ppm	ICPMS Tm ppm	NAA-1 U ppm	ICPMS Y ppm	NAA-1 Yb ppm
290031	807-473-9513	951	16.3	7.2	11.1	23.9	2.9	570	1.0	308	100	38.6	3.4	159	1.1	18	78.1	5.7

Certified By:

Peacock, Gary
Date Created: 12-10-19 02:13:00 PM
Job Number: 201243981
Date Received: 10/11/2012
Number of Samples: 1
Type of Sample: Rock
Date Completed:
Project ID:

Acc #	Client ID	ALXRF1 Fe2O3 %	ALXRF1 Al2O3 %	ALXRF1 SiO2 %	ALXRF1 Na2O %	ALXRF1 MgO %	ALXRF1 K2O %	ALXRF1 CaO %	ALXRF1 P2O5 %	ALXRF1 MnO %	ALXRF1 TiO2 %	ALXRF1 Cr2O3 %	ALXRF1 V2O5 %	ALXRF1 LOI %	ALXRF1 Total %
290031	807-473-9513	11.19	12.65	40.77	2.56	4.43	4.16	11.44	0.79	0.37	1.39	0.14	0.12	9.98	100.00
290032	807-473-9513	10.63	12.71	40.90	2.48	4.36	4.14	11.26	0.79	0.37	1.36	0.12	0.11	10.78	100.00
Control Std Perfomrance															
NIST SR 690		95.17	0.17	3.69	0.09	0.19	0	0.19	0.01	0.22	0.03	0.11	0.11		
GeoQuant M QC-3		2.02	59.59	35.25	0.24	0.24	0.19	0.14	0.1	0.04	1.89	0.16	0.15		
Control Std Certified															
NIST SR 690		95.58	0.18	3.71	0.003	0.18	0.003	0.2	0.025	0.23	0.022				
GeoQuant M QC-3		2.06	58.8	34.84	0.05	0.1	0.18	0.14	0.1	0.03	1.83				

Certified By: _____

ACCURASSAY LABORATORIES

1046 Gorham Street
Thunder Bay, ON
Canada P7B 5X5

Tel: (807) 626-1630
Fax: (807) 622-7571

www.accurassay.com
assay@accurassay.com

Friday, November 9, 2012

Preliminary Analysis

Peacock, Gary
241 Oliver Creek Road
Neebing, ON, CA
P7L 0C4
Ph#: (807) 473-9513

Date Received: 10/11/2012
Date Completed: 10/23/2012
Job #: 201243981
Reference:
Sample #: 1

Acc #	Client ID	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti ppm	Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
290031	807-473-9513	6.411	<1	3.41	32	1441	6	5	6.15	6	>500	28	45	56	5.72	<10	<1	<1	<1	<1	<0.01	384	48	2.09	2134	33	132	115	2515	12	6	0.78	<5	<1	<5	<10	1407	<1	<1	126	2867	<2	53	124	<10	60	119	2
290032D	807-473-9513	5.629	<1	2.97	25	1310	5	15	5.62	4	>500	26	32	50	5.28	<10	<1	<1	<1	<1	<0.01	352	50	1.93	1974	30	131	106	2321	4	5	0.71	8	<1	<5	<10	1278	<1	<1	118	2583	<2	41	113	<10	55	109	2

PROCEDURE CODES: ALP1, ALFA1, ALMA2, ALREE2, ALXR1

Certified By: Jason Moore, General Manager

-0637-11/09/2012 4:04 PM

Quality Analysis ... **Actlabs** *Innovative Technologies*

Date Submitted: 10-Oct-12
Invoice No.: A12-11209
Invoice Date: 26-Oct-12
Your Reference: Pike River

Gary Peacock
241 Oliver Creed Road
Neebing ON P7L0C4
Canada

ATTN: Gary Peacock

CERTIFICATE OF ANALYSIS

1 Rock sample was submitted for analysis.

The following analytical packages were requested:

Code 1A2-Tbay Au - Fire Assay AA (QOP Fire Assay Tbay)
Code 1A3-Tbay Au - Fire Assay Gravimetric (QOP Fire Assay Tbay)
Code 1F2-Tbay Total Digestion ICP(TOTAL)
Code 8-REE Assay Package Major Elements Fusion ICP(WRA)/Trace Elements Fusion ICP/MS(WRA4B2)

REPORT **A12-11209**

Notes:
If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Total includes all elements in % oxide to the left of total.
Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

Emmanuel Eseme , Ph.D.
Quality Control

ISO/IEC 17025
SCC Accredited
LAB 266
LAB 266
Accrédité CCN

ACTIVATION LABORATORIES LTD.

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI
Unit Symbol	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%	%	%	%
Detection Limit	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01	
Analysis Method	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP
1078601	12	0.68	12	1440	11	0.59	< 5	< 10	199	6	86	128	362	38.91	12.16	12.34	0.406	4.27	11.59	2.16	3.05	1.742	0.86	9.35

Analyte Symbol	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.01	1	1	5	20	1	20	10	30	1	1	5	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3
Analysis Method	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP
1078601	97.75	12	6	248	290	35	140	60	170	22	2	< 5	105	1770	90	459	742	85	2.9	< 0.2	4	0.9	1.8	1860

Analyte Symbol	Bi	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Tl	Pb	Th	U	Au
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Detection Limit	0.4	0.1	0.1	0.05	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.04	0.2	0.1	1	0.1	5	0.1	0.1	0.03
Analysis Method	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FA-GRA
1078601	< 0.4	693	1160	117	379	52.7	13.5	36.8	4.1	20.2	3.4	0.6	1.22	7.4	1.08	5.4	15.7	8	0.5	30	203	18.3	7.12

OVER LIMIT.

Quality Control

Analyte Symbol	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm
Detection Limit	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3
Analysis Method	FA-AA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas		28.9	2.29	441	602	1	1360	0.84	3.6	7		1120	23.4	12	2	0.05	0.20	7	827	15	0.05	45	0.058	686
GXR-1 Cert		31.0	3.52	427	750	1.22	1380	0.960	3.30	8.20		1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0	0.0850	730
DH-1a Meas																								
DH-1a Cert																								
NIST 694 Meas																								
NIST 694 Cert																								
DNC-1 Meas																								
DNC-1 Cert																								
GBW 07113 Meas																								
GBW 07113 Cert																								
GXR-4 Meas		3.4	7.09	112	183	2	7	1.04	< 0.3	16	54	6420	3.07	21	< 1	4.46	1.71	11	152	302	0.54	50	0.133	41
GXR-4 Cert		4.00	7.20	98.0	1640	1.90	19.0	1.01	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0	0.120	52.0
SDC-1 Meas		< 0.3	7.20	< 3	549	3	< 2	0.91	< 0.3	19	63	27	4.24	25	< 1	2.18	0.93	32	813	< 1	1.34	37	0.054	16
SDC-1 Cert		0.0410	8.34	0.220	630	3.00	2.60	1.00	0.0800	16.0	64.00	30.00	4.82	21.00	0.20	2.72	1.02	34.00	880.00	0.250	1.52	38.0	0.0690	25.00
SCO-1 Meas		< 0.3	7.59	7	546	2	< 2	1.88	< 0.3	11	50	30	3.42	21		2.47	1.54	42	373	< 1	0.67	28	0.073	22
SCO-1 Cert		0.134	7.24	12.00	570	1.80	0.37	1.87	0.140	11.00	68.0	29	3.59	15		2.30	1.64	45	410	1.4	0.670	27	0.0900	31.0
GXR-6 Meas		0.4	14.6	279	> 1000	1	< 2	0.19	0.4	14	68	66	5.34	38	< 1	2.02	0.61	35	979	3	0.10	28	0.035	82
GXR-6 Cert		1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0	0.0350	101
LKSD-3 Meas																								
LKSD-3 Cert																								
W-2a Meas																								
W-2a Cert																								
DTS-2b Meas																								
DTS-2b Cert																								
SY-4 Meas																								
SY-4 Cert																								
CTA-AC-1 Meas																								
CTA-AC-1 Cert																								
BIR-1a Meas																								
BIR-1a Cert																								
NCS DC86312 Meas																								
NCS DC86312 Cert																								
ZW-C Meas																								
ZW-C Cert																								
NCS DC70014 Meas																								
NCS DC70014 Cert																								
NCS DC70009 (GBW07241) Meas																								
NCS DC70009 (GBW07241) Cert																								
OREAS 100a (Fusion) Meas																								
OREAS 100a (Fusion) Cert																								
OREAS 101a (Fusion) Meas																								
OREAS 101a (Fusion) Cert																								
JR-1 Meas																								
JR-1 Cert																								
NCS DC86318 Meas																								
NCS DC86318 Cert																								
SARM 3 Meas																								
SARM 3 Cert																								
SAR-M (U.S.G.S.) Meas		3.4	6.95	36	815	3	< 2	0.63	5.5	13		330	3.26	23		3.24	0.51	30	5230	9	1.19	48	0.067	1010
SAR-M (U.S.G.S.) Cert		3.64	6.30	35.8	801	2.20	1.94	0.61	5.27	10.70		331	2.99	16.8		2.94	0.50	27.4	5220	13.10	1.140	41.50	0.070	982
USZ 25-2006 Meas																								
USZ 25-2006 Cert																								
DNC-1a Meas					91					56	251	89						4				244		

Quality Control

Analyte Symbol	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm
Detection Limit	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3
Analysis Method	FA-AA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
DNC-1a Cert					118					57.0	270	100.0						5.20				247		
OREAS 13b (4-Acid) Meas		0.8		49						75	9770	2330								11		2270		
OREAS 13b (4-Acid) Cert		0.86		57						75	8850	2300.000								9.0		2247		
USZ 42-2006 Meas																								
USZ 42-2006 Cert																								
OxK79 Meas																								
OxK79 Cert																								
SK52 Meas																								
SK52 Cert																								
OxD87 Meas	430																							
OxD87 Cert	417.000																							
SE58 Meas	641																							
SE58 Cert	607.00																							
1078601 Orig	> 3000																							
1078601 Dup	> 3000																							
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank																								
Method Blank	< 5																							
Method Blank																								

Quality Control

Analyte Symbol	Sb	S	Sc	Sr	Ta	Tl	Th	U	V	W	Y	Zn	Zr	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI
Unit Symbol	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%	%	%	%
Detection Limit	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01	
Analysis Method	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP
GXR-1 Meas	59	0.24	< 4	277	15		< 5	40	90	147	26	692	28												
GXR-1 Cert	122	0.257	1.58	275	13.0		0.390	34.9	80.0	164	32.0	760	38.0												
DH-1a Meas																									
DH-1a Cert																									
NIST 694 Meas														11.23	1.84	0.74	0.012	0.33	43.13	0.87	0.54	0.119	30.17	
NIST 694 Cert														11.2	1.80	0.790	0.0116	0.330	43.6	0.860	0.510	0.110	30.2	
DNC-1 Meas														47.16	18.46	9.91	0.147	10.08	11.33	1.96	0.23	0.489	0.06	
DNC-1 Cert														47.15	18.34	9.97	0.150	10.13	11.49	1.890	0.234	0.480	0.070	
GBW 07113 Meas														73.11	12.63	3.25	0.144	0.14	0.59	2.44	5.42	0.285	0.05	
GBW 07113 Cert														72.8	13.0	3.21	0.140	0.160	0.590	2.57	5.43	0.300	0.0500	
GXR-4 Meas	< 5	1.75	8	212	7		< 5	< 10	91	31	14	69	50												
GXR-4 Cert	4.80	1.77	7.70	221	0.970		3.20	6.20	87.0	30.8	14.0	73.0	186												
SDC-1 Meas	< 5	0.06	14	147		0.29	< 5	< 10	68	< 5	28	88	55												
SDC-1 Cert	0.54	0.0650	17.00	180.00		0.606	0.70	3.10	102.00	0.800	40.0	103.00	290.00												
SCO-1 Meas	< 5	0.08	12	153		0.17			100	< 5	18	91	59												
SCO-1 Cert	2.50	0.0630	11.0	170		0.380			130	1.4	26	100	160												
GXR-6 Meas	< 5	0.01	30	40	< 2		< 5	< 10	146	< 5	13	117	88												
GXR-6 Cert	3.60	0.0160	27.6	35.0	0.0160		2.20	1.54	166	1.90	14.0	118	110												
LKSD-3 Meas																									
LKSD-3 Cert																									
W-2a Meas														52.90	15.07	10.87	0.166	6.22	11.15	2.24	0.62	1.081	0.13	
W-2a Cert														52.4	15.4	10.7	0.163	6.37	10.9	2.14	0.626	1.06	0.130	
DTS-2b Meas																									
DTS-2b Cert																									
SY-4 Meas														49.28	20.08	6.21	0.107	0.49	8.12	6.81	1.62	0.290	0.15	
SY-4 Cert														49.9	20.69	6.21	0.108	0.54	8.05	7.10	1.66	0.287	0.131	
CTA-AC-1 Meas																									
CTA-AC-1 Cert																									
BIR-1a Meas														47.85	15.50	11.30	0.189	9.52	13.32	1.86	0.02	0.986	0.03	
BIR-1a Cert														47.96	15.50	11.30	0.175	9.700	13.30	1.82	0.030	0.96	0.021	
NCS DC86312 Meas																									
NCS DC86312 Cert																									
ZW-C Meas																									
ZW-C Cert																									
NCS DC70014 Meas																									
NCS DC70014 Cert																									
NCS DC70009 (GBW07241) Meas																									
NCS DC70009 (GBW07241) Cert																									
OREAS 100a (Fusion) Meas																									
OREAS 100a (Fusion) Cert																									
OREAS 101a (Fusion) Meas																									
OREAS 101a (Fusion) Cert																									
JR-1 Meas																									
JR-1 Cert																									
NCS DC86318 Meas																									
NCS DC86318 Cert																									
SARM 3 Meas																									
SARM 3 Cert																									
SAR-M (U.S.G.S.) Meas	< 5		10	153	< 2	0.25	< 5	< 10	55	10	34	950													
SAR-M (U.S.G.S.) Cert	6.00		7.83	151.0	0.96	2.7	2.88	3.57	67.20	9.78	28.00	930.0													
USZ 25-2006 Meas																									
USZ 25-2006 Cert																									
DNC-1a Meas	< 5		30	120					140		14	49	37												

Quality Control

Analyte Symbol	Sb	S	Sc	Sr	Te	Tl	Tl	U	V	W	Y	Zn	Zr	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI
Unit Symbol	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%	%	%	%
Detection Limit	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01	
Analysis Method	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP
DNC-1a Cert	0.96		31	144.0					148.0		18.0	70.0	38											
OREAS 13b (4-Acid) Meas		1.16										140												
OREAS 13b (4-Acid) Cert		1.20										133												
USZ 42-2006 Meas																								
USZ 42-2006 Cert																								
OxK79 Meas																								
OxK79 Cert																								
SK52 Meas																								
SK52 Cert																								
OxD87 Meas																								
OxD87 Cert																								
SE56 Meas																								
SE56 Cert																								
1078601 Orig														38.76	12.10	12.28	0.404	4.27	11.61	2.15	3.92	1.735	0.86	9.35
1078601 Dup														39.07	12.23	12.41	0.407	4.27	11.58	2.16	3.97	1.749	0.87	9.35
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5											
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5											
Method Blank																								
Method Blank																								
Method Blank																								

Quality Control

Analyte Symbol	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.01	1	1	5	20	1	20	10	30	1	1	5	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3
Analysis Method	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP
GXR-1 Meas																								
GXR-1 Cert																								
DH-1a Meas																								
DH-1a Cert																								
NIST 694 Meas				1656																				
NIST 694 Cert				1740																				
DNC-1 Meas		31		160	280	59	260	100	70					146	16	35								106
DNC-1 Cert		31		148.0	270.000	57.0	247.000	100.0	70.0					144.0	18.0	38								118
GBW 07113 Meas		5	4	8										41	43	402								500
GBW 07113 Cert		5.00	4.00	5.00										43.0	43.0	403								506
GXR-4 Meas																								
GXR-4 Cert																								
SDC-1 Meas																								
SDC-1 Cert																								
SCO-1 Meas																								
SCO-1 Cert																								
GXR-6 Meas																								
GXR-6 Cert																								
LKSD-3 Meas						31	50	40				27	74					< 2					2.3	
LKSD-3 Cert						30.0	47.0	35.0				27.0	78.0					2.00					2.30	
W-2a Meas		35	< 1	260										197	18	87								172
W-2a Cert		36.0	1.30	262										190	24.0	94.0								182
DTS-2b Meas					15600	120	3630																	
DTS-2b Cert					15500	120	3780																	
SY-4 Meas		1	3	10										1186	115	526								345
SY-4 Cert		1.1	2.6	8.0										1101	119	517								340
CTA-AC-1 Meas								60	40															
CTA-AC-1 Cert								54.0	38.0															
BIR-1a Meas		44	< 1	340	370	53	160	130	70	15				111	13	15	< 1					0.8		7
BIR-1a Cert		44	0.58	310	370	52	170	125	70	16				110	16	16	0.6					0.58		6
NCS DC86312 Meas																								
NCS DC86312 Cert																								
ZW-C Meas									1040	94							199				1310			
ZW-C Cert									1050	99							198				1300			
NCS DC70014 Meas						25	70	2590	7400	25								270	16.9			180		
NCS DC70014 Cert						26.2	70.9	2600.00	7400.00	25.2								270	16.7			183.000		
NCS DC70009 (GBW07241) Meas							< 20	980	100	17	11	70	502							1.3	1700	3.3	42.1	
NCS DC70009 (GBW07241) Cert							2.8	960.000	100.000	16.5	11.2	69.9	500.00							1.3	1701.000	3.1	41	
OREAS 100a (Fusion) Meas						17		170										23						
OREAS 100a (Fusion) Cert						18.1		169										24.1						
OREAS 101a (Fusion) Meas						47		420										20						
OREAS 101a (Fusion) Cert						48.8		434										21.9						
JR-1 Meas							< 20		< 30	17		17	254				16	3	< 0.5	< 0.2	3	1.1	20.8	
JR-1 Cert							1.67		30.6	16.1		16.3	257				15.2	3.25	0.031	0.028	2.86	1.19	20.8	
NCS DC86318 Meas																								
NCS DC86318 Cert																								
SARM 3 Meas																	979							
SARM 3 Cert																	978							
SAR-M (U.S.G.S.) Meas																								
SAR-M (U.S.G.S.) Cert																								
USZ 25-2006 Meas																								
USZ 25-2006 Cert																								
DNC-1a Meas																								

Quality Control

Analyte Symbol	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.01	1	1	5	20	1	20	10	30	1	1	5	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3
Analysis Method	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP
DNC-1a Cert																								
OREAS 13b (4-Acid) Meas																								
OREAS 13b (4-Acid) Cert																								
USZ 42-2006 Meas																								
USZ 42-2006 Cert																								
OxK79 Meas																								
OxK79 Cert																								
SK52 Meas																								
SK52 Cert																								
OxD87 Meas																								
OxD87 Cert																								
SE56 Meas																								
SE56 Cert																								
1078601 Orig	97.43	12	6	248	290	36	140	60	180	22	2	11	108	1756	90	456	755	87	2.9	< 0.2	4	1.1	1.9	1847
1078601 Dup	98.07	13	6	249	290	34	140	60	170	21	1	< 5	103	1784	91	462	730	84	3.0	< 0.2	3	0.7	1.8	1872
Method Blank																								
Method Blank																								
Method Blank					< 20	< 1	< 20	< 10	< 30	< 1	< 1	< 5	< 2				< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	
Method Blank																								
Method Blank																								

Quality Control

Analyte Symbol	Bi	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Tl	Pb	Th	U	Au
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Detection Limit	0.4	0.1	0.1	0.05	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.04	0.2	0.1	1	0.1	5	0.1	0.1	0.03
Analysis Method	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FA-GRA
GXR-1 Meas																							
GXR-1 Cert																							
DH-1a Meas																					891		
DH-1a Cert																					910		
NIST 694 Meas																							
NIST 694 Cert																							
DNC-1 Meas					4.7		0.58							1.9									
DNC-1 Cert					5.20		0.59							2.0									
GBW 07113 Meas																							
GBW 07113 Cert																							
GXR-4 Meas																							
GXR-4 Cert																							
SDC-1 Meas																							
SDC-1 Cert																							
SCO-1 Meas																							
SCO-1 Cert																							
GXR-6 Meas																							
GXR-6 Cert																							
LKSD-3 Meas		48.6	91.7		41.6	7.6	1.38			4.7				2.7	0.39		0.7				11.1	4.5	
LKSD-3 Cert		52.0	90.0		44.0	8.00	1.50			4.93				2.70	0.400		0.700				11.6	4.60	
W-2a Meas																							
W-2a Cert																							
DTS-2b Meas																							
DTS-2b Cert																							
SY-4 Meas																							
SY-4 Cert																							
CTA-AC-1 Meas		2140	3320		1110	162	43.6	133	14.9					10.9	1.12		2.5				23.7	4.2	
CTA-AC-1 Cert		2176	3326		1087	162	46.7	124	13.9					11.4	1.08		2.65				21.8	4.4	
BIR-1a Meas		0.7	2.0		2.3	1.1	0.51							1.6		0.6							
BIR-1a Cert		0.63	1.9		2.5	1.1	0.55							1.7		0.60							
NCS DC86312 Meas		2400	180		1590			221	34.3	184	35.7	96.6	14.4	87.6	12.2								
NCS DC86312 Cert		2360.000	190.000		1600.000			225.0	34.6	183.00	35.70	96.2	15.1	87.79	11.96								
ZW-C Meas																9.6	84.7	320					
ZW-C Cert																9.7	82	320					
NCS DC70014 Meas	80.3	45.0	89.1	10.0	37.7	7.8	1.67	7.2	1.1	6.5	1.3	3.5	0.56	3.5	0.50					27200			
NCS DC70014 Cert	80.3	45.3	87.0	10.6	39.9	8.0	1.8	7.4	1.1	6.7	1.3	3.5	0.57	3.3	0.50					27200.00			
NCS DC70009 (GBW07241) Meas		23.5	60.0	7.47	30.6	12.0		13.9	3.2	20.0	4.2	12.3	2.27	15.4	2.21			2200			29.1		
NCS DC70009 (GBW07241) Cert		23.7	60.3	7.9	32.9	12.5		14.8	3.3	20.7	4.5	13.4	2.2	14.9	2.4			2200.00			28.3		
OREAS 100a (Fusion) Meas		259	473	44.7	145	23.4	3.51	22.0	3.6	21.7	4.7	13.6	2.25	14.6	2.06						52.6	136	
OREAS 100a (Fusion) Cert		269	463	47.1	152	23.6	3.71	23.6	3.80	23.2	4.81	14.9	2.31	14.9	2.26						51.6	135	
OREAS 101a (Fusion) Meas		801	1410	126	383	49.3	7.71	40.9	5.5	30.8	6.4	18.3	2.87	18.0	2.50						36.8	422	
OREAS 101a (Fusion) Cert		816	1396	134	403	48.8	8.06	43.4	5.92	33.3	6.46	19.5	2.90	17.5	2.66						36.6	422	
JR-1 Meas	0.5	20.3	49.3	5.75	22.8	5.7	0.28	5.5	1.0	6.2		3.9	0.69	4.6	0.70	4.6	1.9	2	1.6	19	28.3	9.2	
JR-1 Cert	0.56	19.7	47.2	5.58	23.3	6.03	0.30	5.06	1.01	5.86		3.61	0.67	4.55	0.71	4.51	1.86	1.59	1.56	19.3	26.7	8.88	
NCS DC86318 Meas		1970	422	726	3250	1750	18.3	2110	477	3040	589	1700	268	1730	249								
NCS DC86318 Cert		1960	430	740	3430	1720	18.91	2095	470	3220	560	1750	270	1840	260.0								
SARM 3 Meas																							
SARM 3 Cert																							
SAR-M (U.S.G.S.) Meas																							
SAR-M (U.S.G.S.) Cert																							
USZ 25-2006 Meas																				1050			
USZ 25-2006 Cert																				1100			
DNC-1a Meas																							

Quality Control

Analyte Symbol	Bi	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Tl	Pb	Th	U	Au
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Detection Limit	0.4	0.1	0.1	0.05	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.04	0.2	0.1	1	0.1	5	0.1	0.1	0.03
Analysis Method	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FA-GRA
DNC-1a Cert																							
OREAS 13b (4-Acid) Meas																							
OREAS 13b (4-Acid) Cert																							
USZ 42-2006 Meas		20700	26800	2260	8180	525	84.3																
USZ 42-2006 Cert		21100	27600	2300	8500	539	87.22																
OxK79 Meas																							3.64
OxK79 Cert																							3.53
SK52 Meas																							4.06
SK52 Cert																							4.107
OxD87 Meas																							
OxD87 Cert																							
SE58 Meas																							
SE58 Cert																							
1078601 Orig	< 0.4	686	1160	117	382	53.6	13.5	37.8	4.1	20.5	3.4	9.7	1.25	7.6	1.08	5.5	15.7	8	0.6	33	205	18.5	
1078601 Dup	< 0.4	699	1160	117	376	51.9	13.5	35.9	4.0	19.9	3.4	9.4	1.19	7.3	1.07	5.3	15.6	8	0.5	28	201	18.1	
Method Blank																							
Method Blank																							
Method Blank	< 0.4	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.04	< 0.2	< 0.1	< 1	< 0.1	< 5	< 0.1	< 0.1	
Method Blank																							
Method Blank																							< 0.03

Quality Analysis ... **Actlabs** *Innovative Technologies*

Date Submitted: 07-Jan-13
Invoice No.: A13-00186
Invoice Date: 14-Jan-13
Your Reference:

Gary Peacock
241 Oliver Creed Road
Neebing ON P7L0C4
Canada

ATTN: Gary Peacock

CERTIFICATE OF ANALYSIS

2 Crushed Rock samples were submitted for analysis.

The following analytical packages were requested: Code 1A2-Tbay Au - Fire Assay AA (QOP Fire Assay Tbay)
Code 1F2-Tbay Total Digestion ICP(TOTAL)

REPORT **A13-00186**

Notes:
If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

Emmanuel Eseme , Ph.D.
Quality Control

ISO/IEC 17025
SCC Accredited
LAB 266
LAB 266
Accrédité CCN

ACTIVATION LABORATORIES LTD.

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E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm
Detection Limit	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3
Analysis Method	FA-AA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
1078602	< 5	0.8	3.83	9	946	6	< 2	10.6	< 0.3	61	158	129	9.85	22	< 1	2.53	4.65	55	3400	24	0.97	259	0.243	28
1078603	< 5	0.5	3.86	3	736	6	< 2	11.0	0.9	53	172	107	13.1	27	< 1	1.64	3.19	34	5910	12	0.98	219	0.367	28

Analyte Symbol	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Analysis Method	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
1078602	< 5	1.15	22	1790	2	0.74	< 5	< 10	218	< 5	93	140	283
1078603	< 5	0.83	18	2080	34	0.38	< 5	< 10	164	< 5	154	360	248

Quality Control

Analyte Symbol	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm
Detection Limit	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3
Analysis Method	FA-AA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas		32.7	1.95	435	670	1	1460	0.93	3.8	9		1280	25.1	16	5	0.05	0.22	7	971	16	0.05	47	0.082	786
GXR-1 Cert		31.0	3.52	427	750	1.22	1380	0.960	3.30	8.20		1110	23.6	13.8	3.90	0.050	0.217	6.20	852	18.0	0.0520	41.0	0.0850	730
GXR-4 Meas		3.4	5.81	102	147	2	8	1.06	0.5	14		6710	2.99	20	< 1	3.72	1.70	10	157	328	0.54	42	0.133	42
GXR-4 Cert		4.00	7.20	98.0	1640	1.90	19.0	1.01	0.860	14.6		6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0	0.120	52.0
SDC-1 Meas		< 0.3	7.11	< 3	637	3	< 2	1.12	< 0.3	19		31	4.74	25	< 1	2.42	1.03	35	896	< 1	1.53	38	0.054	24
SDC-1 Cert		0.0410	8.34	0.220	630	3.00	2.60	1.00	0.0800	18.0		30.00	4.82	21.00	0.20	2.72	1.02	34.00	880.00	0.250	1.52	38.0	0.0690	25.00
GXR-6 Meas		0.5	11.7	268	> 1000	1	< 2	0.19	< 0.3	15		73	5.74	32	< 1	1.99	0.83	35	1130	< 1	0.10	30	0.037	98
GXR-6 Cert		1.30	17.7	330	1300	1.40	0.290	0.190	1.00	13.8		66.0	5.58	35.0	0.0680	1.87	0.809	32.0	1010	2.40	0.104	27.0	0.0350	101
OREAS 14P Meas										672		8880	30.3									> 10000		
OREAS 14P Cert										750		9970	37.2									21000		
Oreas 72a (4 Acid Digest) Meas				< 3						161	239	335	9.38									8640		
Oreas 72a (4 Acid Digest) Cert				14.7						157	228	316	9.63									8930.000		
SAR-M (U.S.G.S.) Meas		3.9	5.32	24	821	3	< 2	0.85	5.9	12		381	3.27	19		3.14	0.50	29	5610	5	1.20	47	0.086	1040
SAR-M (U.S.G.S.) Cert		3.64	6.30	38.8	801	2.20	1.94	0.81	5.27	10.70		331	2.99	16.8		2.94	0.50	27.4	5220	13.10	1.140	41.50	0.070	982
DNC-1a Meas					100					56	219	104						4				250		
DNC-1a Cert					118					57.0	270	100.0						5.20				247		
OREAS 13b (4-Acid) Meas		1.0		48						72	9820	2320								10		2110		
OREAS 13b (4-Acid) Cert		0.88		57						75	8650.000	2327.0000								9.0		2247.0000		
OxD108 Meas	433																							
OxD108 Cert	414.000																							
SF67 Meas	897																							
SF67 Cert	835.000																							
SBC-1 Meas				22	781	3	< 2		1.0	24	172	33		31				162		1		86		26
SBC-1 Cert				25.7	788.0	3.20	0.70		0.40	22.7	109	31.0		27.0				163.0		2.40		82.8		35.0
1078602 Orig	7																							
1078602 Dup	< 5																							
1078603 Orig	< 5																							
1078603 Split	< 5	0.6	3.73	6	707	5	< 2	10.7	1.1	51	243	105	12.6	26	< 1	1.58	3.11	33	5870	14	0.94	218	0.318	29
1078603 Dup		0.5	3.86	3	736	5	< 2	11.0	0.9	53	172	107	13.1	27	< 1	1.64	3.19	34	5910	12	0.98	219	0.387	28
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank	< 5																							

Quality Control

Analyte Symbol	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Analysis Method	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	28	0.26	< 4	300	20		< 5	30	90	164	28	782	27
GXR-1 Cert	122	0.257	1.58	275	13.0		0.390	34.9	80.0	164	32.0	780	38.0
GXR-4 Meas	< 5	1.81	8	212	4		< 5	< 10	89	32	13	71	40
GXR-4 Cert	4.80	1.77	7.70	221	0.970		3.20	6.20	87.0	30.8	14.0	73.0	186
SDC-1 Meas	< 5	0.07	17	173		0.07	< 5	< 10	32	< 5	33	102	25
SDC-1 Cert	0.54	0.0650	17.00	180.00		0.606	0.70	3.10	102.00	0.800	40.0	103.00	290.00
GXR-6 Meas	< 5	0.02	31	40	< 2		< 5	< 10	139	< 5	13	132	77
GXR-6 Cert	3.60	0.0160	27.8	35.0	0.0180		2.20	1.54	186	1.90	14.0	116	110
OREAS 14P Meas													
OREAS 14P Cert													
Oreas 72a (4 Acid Digest) Meas		1.73											
Oreas 72a (4 Acid Digest) Cert		1.74											
SAR-M (U.S.G.S.) Meas	< 5		9	154	< 2	0.25	< 5	< 10	58	10	34	1020	
SAR-M (U.S.G.S.) Cert	6.00		7.83	151.0	0.98	2.7	2.88	3.57	67.20	9.78	28.00	930.0	
DNC-1a Meas	< 5		33	135					146		15	57	37
DNC-1a Cert	0.98		31	144.0					149.0		16.0	70.0	38
OREAS 13b (4-Acid) Meas		1.18										143	
OREAS 13b (4-Acid) Cert		1.2										133	
OxD108 Meas													
OxD108 Cert													
SF67 Meas													
SF67 Cert													
SBC-1 Meas	< 5		21	176			< 5	< 10	222	< 5	30	182	120
SBC-1 Cert	1.01		20.0	178.0			0.89	5.78	220.0	1.60	36.5	186.0	134.0
1078602 Orig													
1078602 Dup													
1078603 Orig													
1078603 Split	< 5	0.65	17	2040	11	0.31	< 5	< 10	171	< 5	147	354	293
1078603 Dup	< 5	0.83	18	2080	34	0.38	< 5	< 10	164	< 5	154	360	248
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank													

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Thursday, January 24, 2013

Final Certificate

Peacock, Gary
241 Oliver Creek Road
Nashing ON CA
P7L 0C4
Ph#: (807) 473-9513

Date Received: 01/07/20
Date Completed: 01/24/20
Job #: 2013400
Reference:
Sample #: 2

Acc #	Client ID	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sr %
80050	35801	<0.005	<1	2.16	23	<10	1563	6	17	8.05	8	52	183	109	7.17	1.75	56	2.89	2191	44	0.22	226	4258	25	<5	<5	<0.01
80051	35802	0.022	<1	1.87	21	<10	486	4	10	8.32	8	42	198	88	8.58	0.75	21	1.25	2942	39	0.40	187	8029	27	8	6	<0.01
80520	35802	0.011	<1	1.77	23	<10	456	4	10	7.97	5	43	190	83	8.13	0.71	21	1.18	2819	37	0.37	329	6814	24	<5	<5	<0.01

PROCEDURE CODES: ALP1, ALFA1, ALAR1

Certified By: Dr. David Brown, VP Quality

The results included on this report relate only to the items tested.
The Certificate of Analysis should not be reproduced except in full, without the written approval of the laboratory.

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Final Certificate

Date Received: 01/07/2013
Date Completed: 01/24/2013
Job #: 2013400052
Reference:
Sample #: 2

Ag	Au	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Si	Sn	Sr	Ti	Tl	V	W	Y	Zn
ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
[illegible]	[illegible]	5	17	8.05	5	52	183	108	7.17	1.75	55	2.89	2191	44	0.22	226	4298	25	<5	<5	<0.01	<10	1807	2361	<2	190	<10	76	87
[illegible]	[illegible]	4	10	8.32	6	42	188	88	6.58	0.75	21	1.25	2942	38	0.40	187	6028	27	9	5	<0.01	<10	2090	1628	<2	153	<10	129	193
[illegible]	[illegible]	4	10	7.97	5	43	190	89	8.13	0.71	21	1.16	2819	37	0.37	329	5814	24	<5	<5	<0.01	<10	1999	1592	<2	145	<10	124	178

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