

**GAMMA RAY SPECTROMETRIC SURVEY
ON THE
LEAH MARIE CLAIM**

OMINECA MINING DIVISION, BC

NTS 93 0/4

Latitude: 55° 07'N

Longitude: 123° 51'W

**OWNER:
Dave Forshaw
Box 419
Mackenzie, B.C.
V0J 2C0**

**BY:
Dave Forshaw**

**GEOLOGICAL SURVEY BRANCH
REPORT**

June 1999.

25,925

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LOCATION AND ACCESS

The property is located approximately 140 kilometers northwest of Prince George and 78 kilometers west of Windy Point, B.C. The Leah Marie claim is centered on 55° 07' north latitude and 123° 51' west longitude on NTS sheet 93 0/4. It is accessible by the north branch of the Finlay Philip Forest Service Road at kilometer 60 from spring to fall or by helicopter from Mackenzie year-round.

TOPOGRAPHY AND VEGETATION

The topography of the area is rolling hills ranging in elevation from 980 meters (2990 ft.) above sea level (ASL) to 1250 meters (3800 ft.) ASL covered with economic stands spruce and fir and poplar trees. The best exposure of bedrock is usually found in logging cuts and along road cuts.

PROPERTY STATUS

The property consists of one 4 - post mineral claims.

<u>CLAIM NAME</u>	<u>RECORD NO.</u>	<u>UNITS</u>	<u>EXPIRY DATE</u>	<u>OWNER</u>
Leah Marie	363605	20	June 28, 1999	D. Forshaw

HISTORY

The property is located east of Placer Dome's Mt. Milligan copper/gold porphyry deposit. It was originally staked by D.L. Cooke and Associates Ltd. to cover part of a small aeromagnetic anomaly which occurs approximately 4.5 kilometers east of the Mt. Milligan copper-gold deposit. Reconnaissance induced polarization and resistivity survey, geological mapping, rock and soil sampling were done over the western part of the property in August of 1991.

A single drill hole tested part of the magnetic anomaly and is reported to have encountered pyritic black argillites (R. Shives, pers. comm.).

In 1991 the Geological Survey of Canada (GSC) conducted a high resolution airborne gamma ray spectrometric (AGRS) survey over the Mt. Milligan area (Shives et al, 1991). This survey delineated potassic halo "bulls-eyes" over the Mt. Milligan, Taylor, Wit, Chuchi, and other known deposits and identified several new targets, one of which lies mostly under the Lac 1 claim. The anomaly under the Lac 1 claim is known as the "K5".

The Lac 1 and 2 claims were allowed to lapse in 1994 and the Lac 1 claim was restaked by D. Forshaw, who optioned the claim to Pacific Mariner Explorations Ltd. which was renamed Abitibi Mining Corp. in 1995. Under Pacific Mariner the property was explored by soil sampling over the heart of the main AGRS potassic anomaly, sampling that mostly duplicated D.L. Cooke's earlier work. The results returned were somewhat better than Cooke's, defining a weak northeast trending copper anomaly along a topographic lineament.

Abitibi Mining Corp. dropped the Lac 1 claim. In 1998, the property was restaked by D. Forshaw who renamed it the Leah Marie. A ground survey, on the west side of the property, was done using a 256 channel gamma ray spectrometer. This was done in order to get more specific information to determine the exact boundaries of the anomaly. Forty-four readings were done on a 100m x 75m grid.

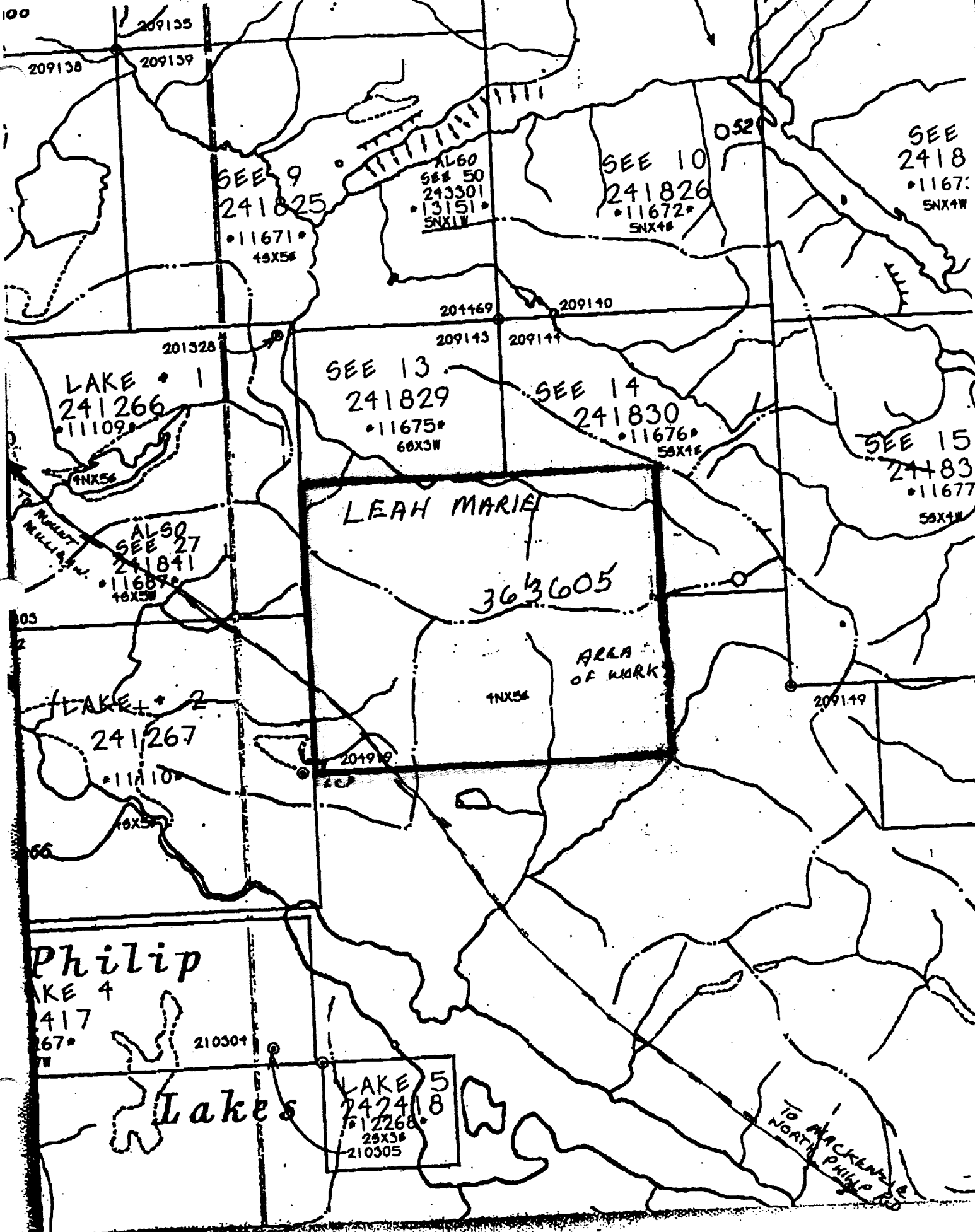
REPORT OF WORK - LEAH MARIE CLAIM - 1998

The Geological Survey of Canada did an Open File 2535 Airborne Geophysical Survey of the Mt. Milligan Area, B. C., September 1991. Airborn Gamma Ray Spectrometry is a remote sensing, geophysical technique which provides information about the distribution of K, U, and Th that is directly interpretable in terms of surface geology. A single AGRS measurement provides an averaged surface concentration for an area of several thousand square metres, composed of variable proportions of bedrock, overburden, soil moisture, water and vegetation. The flight lines were spaced at 500 m, and gamma ray flux decreases exponentially with distance from the source.

Positive K anomalies and patterns are directly related to ore zones, such as the Mt. Milligan deposit. Three unexpected K anomalies were picked up with the AGRS, Mt. Milligan survey. One of these, the K5 anomaly, is mostly covered by the Leah Marie Claim.

After consulting with Rob Shives, of the Geological Survey of Canada, in Ottawa, we started a ground survey using an Exploranium DISA 400A spectrometer, ser, # ND-067, and Exploranium gamma ray detector xl, ser. # ND-078. Sensitivities are K = 215.3 cpm%, U = 21.9 cpm/ppm, Th = 8.76 com/ppm. The stripping Ratio, alpha - 0.76, bata - 0.67 gamma - 0.96, a - 0.036. This was done in order to get more specific information to determine the exact boundaries of the anomaly. We took 44, one minute readings on a grid 100m x 75m. this year. It was since recommended, by Rob Shives, that we take two minute readings on a 50m x 25m grid. This will be our objective for the 1999 season. This information will be used to deliniate accurately, the K5 anomaly.

Dave Forshaw



100

209138

209139

201535

SEE 9
241825
•11671•
49X56

AL60
SEE 50
243301
•13151•
SNX1W

SEE 10
241826
•11672•
SNX48

SEE 2418
•1167•
SNX4W

201528

201469

209140

209143

209144

LAKE 1
241266
•11109•
49X56

SEE 13
241829
•11675•
60X3W

SEE 14
241830
•11676•
50X46

SEE 15
24183
•11677•
50X4W

ALSO
SEE 27
241841
•11687•
49X5W

LEAH MARIA

363605

AREA OF WORK

49X56

209149

103

2

LAKE 2
241267
•11110•
49X56

201919

66

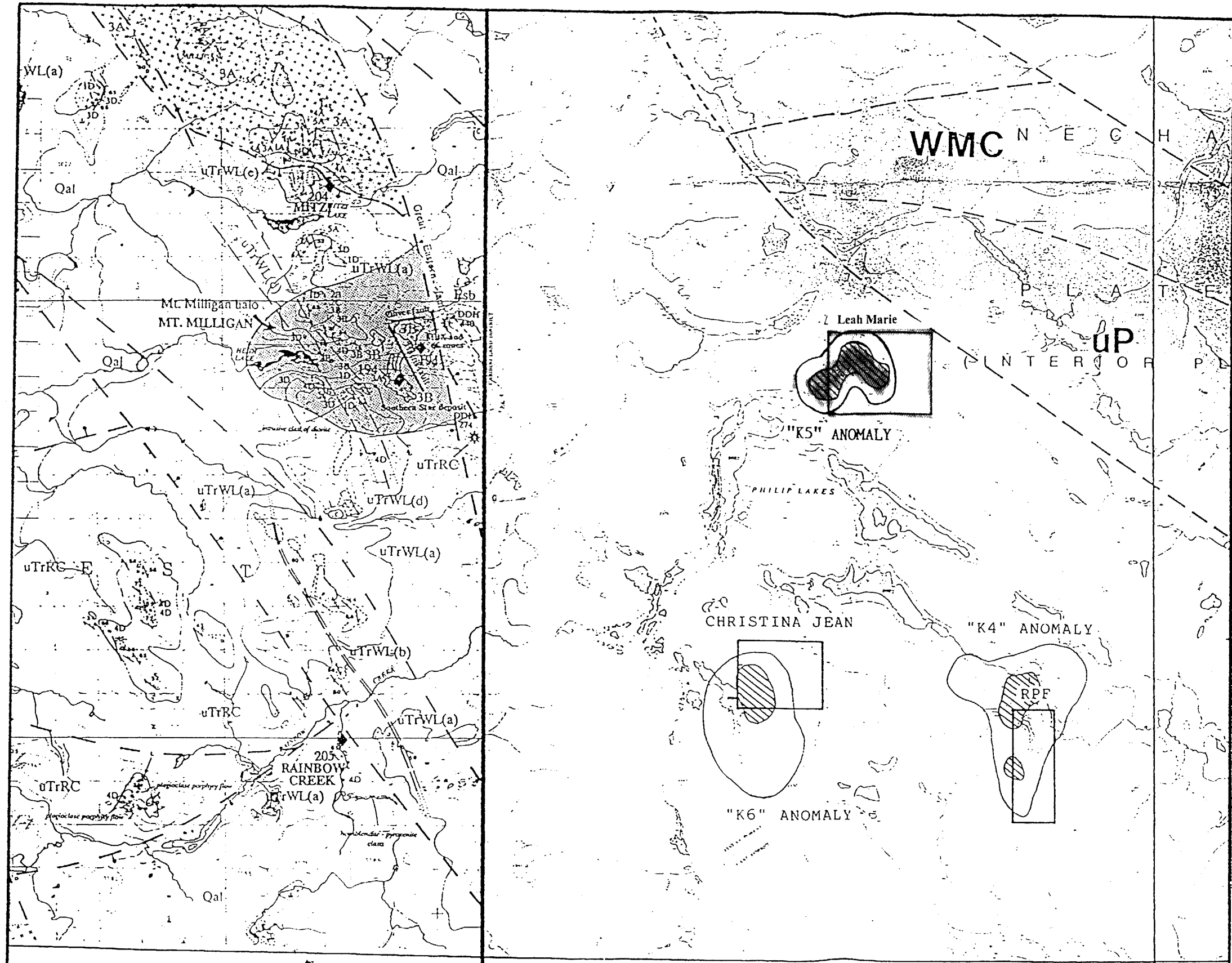
Philip
LAKE 4
241767•
49X5W

210304

Lakes

LAKE 5
242418
•112268•
25X36
210305

TO HACKETT RD
NORTH PHILIP RD



LEGEND

LAYERED ROCKS

- QUATERNARY
 - Qal UNCONSOLIDATED GLACIAL TILL AND ALLUVIUM
 - Ob OLIVINE BEARING BASALT
- Eocene - Oligocene
 - Esb VOLCANIC WACKES, PLANT-BEARING VOLCANIC ASH RICH MUDSTONE AND BASALT
- UPPER TRIASSIC (- JURASSIC)
 - TAKLA GROUP
 - uTrCL CHUCK LAKE FORMATION: (A) GREEN AND MAROON HETEROLITHIC AGGLOMERATE; (B) PLAGIOCLASE PORPHYRY TRACHYTE FLOWS AND BRECCIAS; (C) INTERVOLCANIC SEDIMENTS
 - uTrWL WITCH LAKE FORMATION: (A) AUGITE (± PLAGIOCLASE ± HORNBLEND) PORPHYRY AGGLOMERATE, LAPILLI TUFF AND EPICLASTIC SEDIMENTS; (B) TRACHYTE FLOWS AND TUFF-BRECCIAS; (C) PLAGIOCLASE (± AUGITE) PORPHYRY LATITE FLOWS AND AGGLOMERATES; (D) EPICLASTIC SEDIMENTS (SANDSTONES AND SILTSTONES) AND MINOR AMYGDALOIDAL TRACHYTE FLOWS; (E) AMPHIBOLITE AND METAMORPHOSED AUGITE PORPHYRY FLOWS, LAPILLI TUFF, AGGLOMERATE AND SEDIMENTS
 - uTrIL INZANA LAKE FORMATION: VOLCANIC SANDSTONE, SILTSTONE, MUDSTONE, ARGILLITE, LAPILLI TUFF AND SEDIMENTARY BRECCIA
 - uTrRC RAINBOW CREEK FORMATION: GREY SLATE, THIN BEDDED SILTSTONE, MINOR VOLCANIC SEDIMENTS

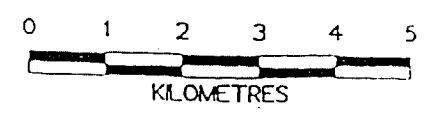
INTRUSIVE ROCKS

- LATE CRETACEOUS-EARLY TERTIARY
 - 1 GRANITE SUITE: (1A) COARSE TO MEDIUM GRAINED, EQUIGRAULAR GRANITE, (1D) AMYGDALITE/DIACITE
- LATE TRIASSIC-EARLY JURASSIC
 - 2 SYENITE SUITE: (2A) COARSE TO MEDIUM GRAINED, EQUIGRAULAR SYENITE; (2B) CROWDED PLAGIOCLASE PORPHYRY SYENITE; (2C) MEGACRYSTIC SYENITE
 - 3 MONZONITE SUITE: (3A) COARSE TO MEDIUM GRAINED, EQUIGRAULAR MONZONITE; (3B) CROWDED PLAGIOCLASE PORPHYRY MONZONITE; (3C) MEGACRYSTIC PLAGIOCLASE MONZONITE; (3D) SPARSELY PORPHYRY MONZONITE
 - 4 DIORITE/MONZODIORITE SUITE: (4A) COARSE TO MEDIUM GRAINED EQUIGRAULAR DIORITE/MONZODIORITE; (4B) CROWDED PLAGIOCLASE PORPHYRY DIORITE; (4C) MEGACRYSTIC PLAGIOCLASE (± AUGITE) PORPHYRY DIORITE; (4D) SPARSELY PORPHYRY ANDESITE
 - 5 GABBRO/MONZOGABBRO SUITE: (5A) COARSE TO MEDIUM GRAINED, EQUIGRAULAR GABBRO/MONZOGABBRO

Geology Sources

93 N/2E BC-MEMPR of 1992-1994 J.L. Nelson et. al.
 93 N/1 BC-MEMPR of 1991-1993 J.L. Nelson et. al.
 93 O/4W BC-MEMPR Geological Highway Map No. 3

Scale = 1:100 000



David Forshaw
 Leah Marie Claim
 OMINICA M. D., BC

NTS 93-0-4

Regional Geology
 Scale 1 : 100,000
 Date: June/1999
 By: D. F.

Figure 3

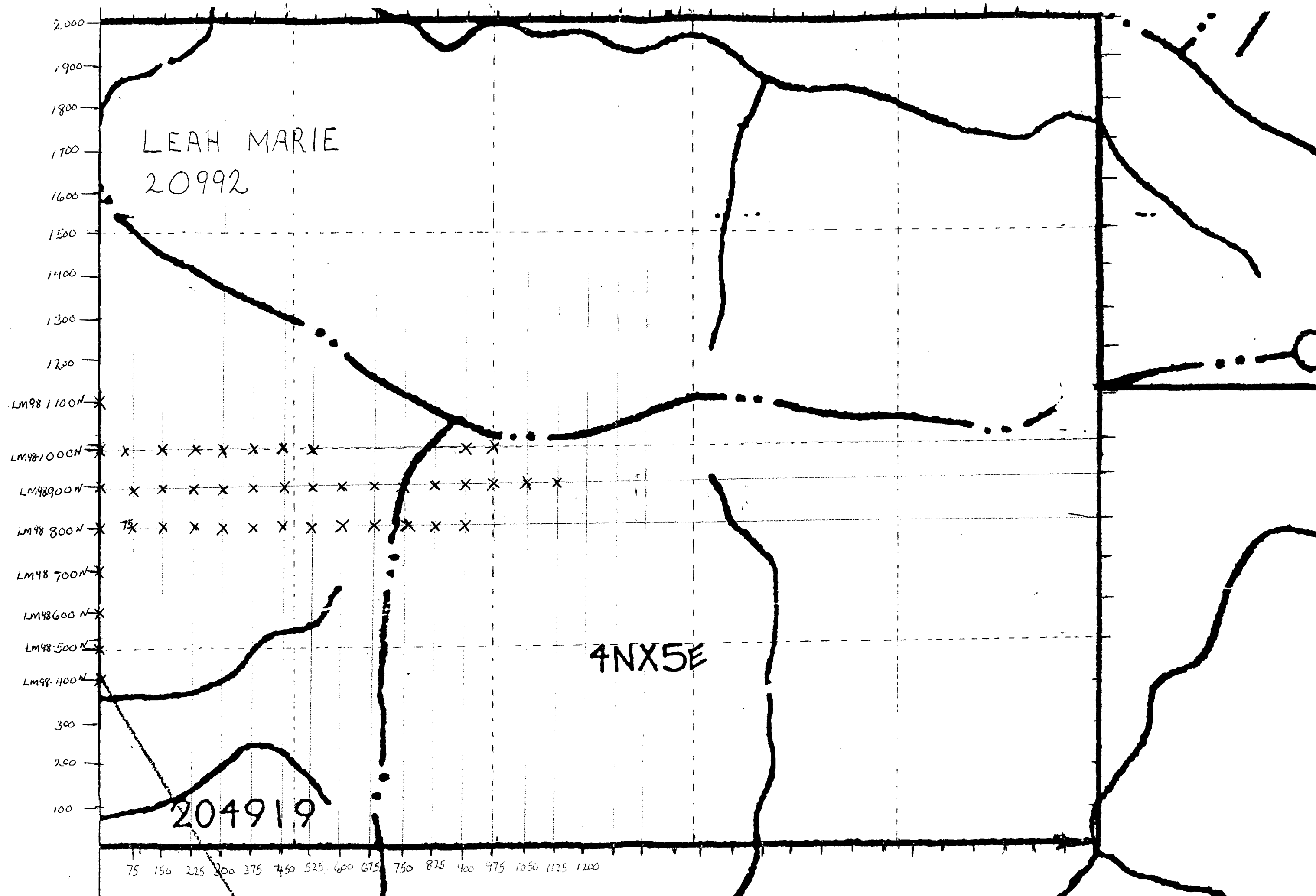
PORTABLE GAMMA RAY SPECTROMETER SURVEY.

On the Leah Marie claim, number 20992. Located 63 Km south west of Mackenzie, B.C.
 The L.C.P. is located 5.1 Km north, 2.47 Km west of eastern tip of Philip Lake (lat. 55
 degrees, 04 minutes, and long 123 degrees, 49 minutes, 38 seconds)
 September 5, 13, 20, 1998,

	<u>Column 1</u>	<u>Column 2</u>	<u>Column 3</u>	<u>Column 4</u>
	Total Count	Potassium	Uranium	Thorium
LM98-400N ,	mossy, organic, ridge, spruce. 4297	336	98	22
LM98-500N ,	mossy, organic, spruce, 5373	434	98	26
LM98-600N ,	mossy, sandy loam, flat, pine, 3867	284	69	24
LM98-700N ,	mossy, sandy loam, flat, pine, 4016	296	86	20
LM98-800N ,	rusty sandy gravel, flat, lichen, pine, 5221	338	151	47
LM98-900N ,	tan gravelly loam, ridge lichen, pine, 5039	385	136	32
LM98-1000N,	tan gravelly loam, small hill, lichen, pine, 3362	308	55	18
LM98-1100N,	rusty sandy gravel, ridge, spruce, 4454	389	90	33
LM98-800N-75 E,	tan fine sand, wet area, spruce, 3586	281	56	30
LM98-800N-150E,	gray sandy loam, flat, spruce, pine, 4397	440	61	38
LM98-800N-225E,	rusty sandy gravel, ridge, spruce, pine, 4714	453	96	34
LM98-800N-300E,	organic, flat, spruce, 1338	51	23	12
LM98-800N-375E,	brown sandy loam, flat spruce, 3479	286	69	37
LM98-800N-450E,	brown sandy gravel; to bolder, 20% grade, spruce, 4919	500	98	36
LM98-800N-525E,	kakie till, spruce, 20 degree slope 4043	497	49	27
LM98-800N-600E,	brown clay soil, spruce, 20 degree slope, 4183	491	76	42
LM98-800N-675E,	brown clay soil, spruce, 20 degree slope, 3941	445	45	29
LM98-800N-750E,	kakie till, alder spruce, 4176	520	59	38
LM98-800N-825E,	light brown sandy loam, spruce, 3 m. to steep slope 4036	463	49	43

LM98-800N-900E,	redish brown sandy loam, pine spruce	3973	512	51	36
LM98-900N-075E,	rusty fine sandy soil, spruce, soil sample	4681	663	46	32
LM98-900N-150E,	sandy clay loam, spruce,	1667	151	27	15
LM98-900N-225E,	rusty tan til, pine spruce, soil sample,	4215	496	71	29
LM98-900N-300E,	dark brown soil. bog, balsum spruce, soil sample,	2155	185	33	22
LM98-900N-375E,	dark brown soil, spruce pine, soil sample,	3911	448	70	36
LM98-900N-450E,	tan sandy till, 1inch gravel dispersed,	4148	528	50	27
LM98-900N-525E,	brown tan sandy till, 1 inch gravel dispersed,	4422	571	52	26
LM98-900N-600E,	brown tan sandy till, spruce alder,	4231	479	64	33
LM98-900N-675E,	tan clay till, spruce pine,	4307	490	66	29
LM98-900N-750E,	tan till, spruce alder,	4546	531	64	38
LM98-900N-825E,	tan till, assorted size cobble, pine spruce,	4164	655	60	28
LM98-900N-900E,	redish brown sandy loam, cobles, pine,	5361	750	65	40
LM98-900N-975E,	kakie loam containing broken basault, spruce,	5315	763	57	27
LM98-900N-1050E,	rusty sandy loam, cobles, spruce,	3889	492	44	28
LM98-900N-1125E,	light brown sandy loam, spruce,	3899	479	53	37
LM98-1000N-050E,	grey sandy mixed with gravel, spruce pine, soil sample,	4452	521	53	38
LM98-1000N-150E,	dark brown soil, spruce pine,	1732	121	22	12
LM98-1000N-225E,	light brown sandy clay soil, rocky, soryce akder,	4294	518	58	29
LM98-1000N-300E,	light brown sandy loam, spruce,	3482	359	37	32
LM98-1000N-375E,	dark brown soil,	1247	75	20	14
LM98-1000N-450E,	1m. deep black soil then rusty sandy soil mixed with rock, spruce,	5432	677	86	56

LM98-1000N-525E, dark brown soil, spruce,	3137	335	43	32
LM98-1000N-900E, light rusty sandy soil, contains broken basalt, spruce	3926	485	51	34
LM98-1000N-975E, rusty sandy loam, pine spruce,	4584	604	69	28



LEAH MARIE
20992

4NX5E

204919

LM981100N
LM981000N
LM98900N
LM98800N
LM98700N
LM98600N
LM98500N
LM98400N

75 150 225 300 375 450 525 600 675 750 825 900 975 1050 1125 1200

Leah Marie CLAIM - EXPENDITURES

SALARIES

Dave Forshaw	- 3 mandays @ \$180/day	440
3 Workers	- 3 mandays @ \$140/day	740
Report preparation	- Valerie & David Forshaw	180

LOGISTICAL COSTS

Food and lodging	450
Vehicle fuel and maintenance	300

EQUIPMENT COSTS

256 Channel Gamma Ray Spectrometer	300
Chain Saw	150

FILING FEES	200
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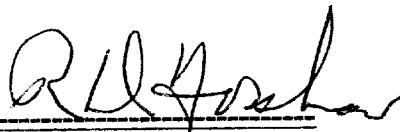
SUBTOTAL	2760
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Administration Fee (15%)	414
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TOTAL	\$ 3174
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STATEMENT OF QUALIFICATIONS

1. Twenty years active prospecting experience.
2. I have completed courses in the following: Basic Prospecting, Advanced Prospecting, Drift Prospecting, Radiometrics, Geochemical, Placer, and Industrial Minerals. I have attended the Cordilleran Roundup mining convention in Vancouver and the Minerals North Conference each year. I have also attended a great number of talks given by specialists in the mining field.
3. I have assisted with eight Basic Prospecting Courses, one Advanced Prospecting Course, and one Placer Course.
4. I am the mining consultant for the Mackenzie Economic Development Commission.
5. I represented the B. C. & Yukon Chamber of Mines in the Mackenzie L.R.M.P. process.
6. I assist teachers in Mackenzie and Prince George Elementary and High Schools with their Geology related subjects, in the classroom and on field trips. I now do this through the CAST program.
7. I am a member of the Omineca Exploration Group and actively work to bring the prospectors in our area educational courses, field trips, and interesting speakers from all aspects of the mining field.
8. I have also taken courses in Holistic Forestry and other forest related courses to further my understanding of our environment and for reclamation purposes, if ever needed.
9. The work on these claims has been monitored and done in close conjunction with Rob Shives of the Geological Survey of Canada, and his work in our area. He keeps records of our findings for his information.



Dave Forshaw