



42A07SW0033 59 LANGMUIR

010

DIAMOND DRILLING

TOWNSHIP: LANGMUIR

REPORT NO: #59

WORK PERFORMED FOR: David J. Meunier

RECORDED HOLDER: Same as Above (xx)
: Other ()

<u>Claim No.</u>	<u>Hole No.</u>	<u>Footage</u>	<u>Date</u>	<u>Note</u>
P946189 & P779601	LF-86-11	775'	Sept/86	(1)

NOTES: (1) W8906-387 date filed Oct/89

LAC MINERALS LTD.
91 DUNCAN AVENUE
KIRKLAND LAKE, ONTARIO
P2H 1Y2

GENERAL INFORMATION

HOLE NUMBER: LF-86-11
PAGE NUMBER: 1
LOGGED BY: J. Kovala
DATE:

PROJECT: Neunier

Type of Hole: DDH

LOCATION: Langmuir Township
COLLAR: LATITUDE
ELEVATION: COLLAR
LENGTH: 776 feet
PURPOSE:
DATE STARTED: 24/09/86

AZIMUTH: 360 DEG.
DIP: -45 DEG.
DEPARTURE:
BOTTOM:
RECOVERY: 98%
CORE SIZE: BQ
DATE ENDED:

SURVEY DATA

LOCATION	AZIMUTH	DIP	METHOD	REMARKS
0	360	-45		COLLAR
200		-45	A	
400		-45	A	
600		-45	A	

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LAC EXPLORATIONS

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 GEOLOGICAL AND ASSAY DATA

FROM TO		REMARKS	DRILL HOLE: LF-86-11		PROJECT: Meunier		TARGET:							
SAMPLE NUMBER FROM TO			FEET/ METERS	ASSAY (CORE)						SLUDGE FROM TO		MAGNETICS FROM TO		MST.
			AU	PPH	PPB	PPM	PPS	PPG	PPH	PPB	AU	PPH	PPB	Z
0.0	63.0	OVERBURDEN												
63.0	285.8	INTERCALATED MAFIC VOLCANIC FLOWS AND MAFIC DIKES												

Mafic Volcanic Flows:
 Dark green to green black; fine grained to medium grained; non-magnetic;
 1 - 2 mm white asphydules throughout.

Mafic Dikes:
 Green grey; fine to medium grained; non-magnetic.
 @ 66.8: quartz carbonate, epidote stringer at 45 DEG. to core axis,
 minor pyrite.

63.0 to 72.0: broken and ground core; 10 cm wide quartz carbonate vein
 ground free 71.2 to 71.6.

86.7 to 89.0: Mafic Dike
 Fine grained, grey, non-magnetic; upper contact at 45 DEG. to core axis;
 lower contact at 35 DEG. to core axis.

96.12 to 97.6: Mafic Dike
 Fine grained, grey, non-magnetic; upper contact at 40 DEG. to core axis;
 lower contact at 30 DEG. to core axis.

100.0 to 102.9: Mafic Dike
 Fine grained, grey, non-magnetic; upper contact at 20 DEG. to core axis;
 lower contact at 20 DEG. to core axis.

110.5 to 110.8: Mafic Dike
 45 DEG. to core axis.

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 GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-85-11 PROJECT: Neunier TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	FEET/ METERS	ASSAY (GORE)					SLUDGE		MAGNETICS		
							AU	PPB	PPM	PPM	PPM	PPM	PPM	FROM	TO	AU

111.0 to 112.6: Epidote altered coarse crystalline section.

123.4 to 123.9: Epidote altered and bleached; 5-8% pyrite; hematite along fractures.

129.6 to 132.6: Mafic Dike
 Dark green grey; non-magnetic; 1 to 5 mm pyroxene crystals become fine grained down hole; upper contact at 45 DEG. to core axis; lower contact at 15 DEG. to core axis.

140.1 to 143.0: Mafic Dike
 Similar to 129.6 to 132.6; 1 to 5 mm pyroxene crystals become fine grained down hole; upper contact at 45 DEG. to core axis; lower contact at 30 DEG. to core axis.

181.8 to 182.5: Mafic Dike
 Dark green grey, fine grained; 45 DEG. to core axis.

182.5 to 183.0: Pyrite along fractures.

255.0 to 285.8: Altered light grey; minor disseminated pyrite concentrated along quartz carbonate and epidote stringers.

270.0 to 270.3: Quartz carbonate chlorite vein at 45 DEG. to core axis.

273.3: Minor pyrite as small masses along fractures.

285.6 328.7 SHEARED ALTERED VOLCANIC

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GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-86-11 PROJECT: Meunier TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	FEET/ METERS	ASSAY (CORE)						SLUDGE		MAGNETICS				
							ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	FRGM	TO	AU	ppb	FROM
		Dark brown black; sheared; intensely carbonate altered; 30 to 40% irregular quartz carbonate masses and stringers; pyrite disseminated and as clots throughout.																	
		287.5 to 294.0: 50 - 60% quartz carbonate masses; 5 to 8% pyrite.																	
		295.5 to 296.5: 40% quartz carbonate masses; at 295.4 light blue green mineral?																	
		303.0 to 303.5: Quartz carbonate masses; 3 - 5% pyrite; 1 - 2% chalcopyrite.																	
		306.5 to 308.5: 30% quartz carbonate masses; minor pyrite.																	
		323.0 to 328.0: 40% quartz carbonate masses.																	
328.9	344.0	MAFIC VOLCANIC FLOW Dark green grey; fine to medium grained; massive; non-magnetic; thin quartz carbonate stringers throughout; lower contact not distinct.																	
344.0	353.2	SERPENTINIS? Light green grey; fine grained; non-magnetic; foliation; possible bedding at 60 DEG. to core axis; light green white irregular altered bands subparallel to foliation; often contain pyrite and pyrrhotite; 3 to 4 % pyrite; 1 to 2% pyrrhotite throughout.																	
		@ 351.4: Quartz carbonate stringer containing 1 to 2 mm dark black mineral, metallic? Lower contact sharp at 30 DEG. to core axis.																	

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GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-86-11

PROJECT: Mesnier

TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	ASSAY (CORE)						SLUDGE		MAGNETICS			
						FEET/ METERS	AU	gpb	gpb	gpa	ppb	ppb	gpa	gpb	gpb	gpb	gpb
353.4	374.0	MAFIC DIKE Dark green; medium grained; massive; non-magnetic; lower contact at about 10 DEG. to core axis.															
374.0	401.5	SEDIMENTS? Light grey green to green; strongly carbonate altered; 25 to 30% quartz carbonate veins and masses; minor disseminated pyrite. 374.0 to 374.9: Brecciated contact recessed by carbonate. 394.1 to 394.5: Fault gouge, clay minerals. # 400.2: 2 cm quartz carbonate vein at 80 DEG. to core axis. # 401.0: 3.5 cm quartz carbonate vein at 60 DEG. to core axis; lower contact at 30 DEG. to core axis.															
401.5	410.1	FELSIC DIKE Light pink white; medium to coarse grained; 5 - 10% mafic phenocrysts (<0.7 mm in diameter); lower contact ground.															
410.1	472.5	PERIDOTITIC KOMATIITE FLOW Grey green; fine grained, strongly magnetic; moderately serpentinized; strongly carbonate altered causing light grey green colour; 10 - 15% carbonate stringers at all angles to core axis throughout; minor pyrite associated with stringers. 410.0 to 411.0: Broken and ground core.															

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GEOLOGICAL AND ASSAY DATA

BRILL HOLE: LF-86-11

PROJECT: Heunier

TASSET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	ASSAY (GORE)						GLUCOSE		MAGNETICS				
						FEET/ METERS	AU	ppb	ppb	ppm	ppm	ppm	ppm	FROM	TO	AU	ppb	FROM
		417.7 to 417.8: Fault gouge and clay minerals; 65 DEG. to core axis.																
		455.0 to 459.0: 2% disseminated pyrite.																
		@ 456.7: 2 cm quartz carbonate vein at 45 DEG. to core axis.																
		464.5 to 465.5: Broken core; lower contact at 10 DEG. to core axis; minor pyrite.																
472.2	475.2	FELSIC DIKE Similar to 401.5 to 410.1; light pink white; medium grained; non-magnetic. Irregular fracture infilled with chlorite throughout. Quartz vein at lower contact; contact at 10 DEG. to core axis.																
475.2	502.3	ULTRAMAFIC FLOW (PERIDOTITIC KONAITE) Light green grey; fine grained; magnetic; intensely carbonate altered; trace disseminated pyrite (1% throughout). @ 484.0: 5 cm diameter quartz carbonate mass; broken core; lower contact 35 DEG. to core axis.																
405.1	511.2	MAFIC DIKE? dark green brown; fine grained; non-magnetic; 3 - 4% disseminated pyrite throughout; intensely carbonate altered.																
		@ 502.3: 2 cm wide quartz carbonate vein at 45 DEG. to core axis.																
		506.0 to 508.0: Irregular quartz carbonate veins																

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LAC EXPLORATIONS

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FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	FEET/ METERS	ASSAY (CORE)						SLUDGE		MAGNETICS		NST.
							AU	Agb	Agb	Agb	Agb	Agb	Agb	Agb	Agb	Agb	

511.2 646.5 ULTRAMAFIC FLOW (PERIDOTITIC KOMATIITE)
Light grey green to black; fine grained, magnetic; trace pyrite and pyrrhotite associated with carbonate stringers and along fractures throughout; entire section broken and fractured.

511.2 to 576.0: Intensely carbonate altered; irregular carbonate throughout, carbonate cementing brecciated core sections.

576.0 to 639.0: Massive weakly altered 0.7 cm pyrrhotite mass along carbonate stringer at 584.7.

639.0 to 646.0: Intensely carbonate altered; carbonate as cement in brecciated core sections; broken core; fault gouge and clay minerals from 644.8 to 645.6; lower contact sharp at 80 DEG. to core axis.

646.5 665.0 GRANITIC DIKE
Grey white; medium grained; non-magnetic; 15%, 1 - 2 mm mafic phenocrysts; thin chloritic infilled fractures throughout; 1 to 2% pyrite throughout.

@ 652.0: Ground core; lower contact sharp at 10 DEG. to core axis.

665.0 666.4 ULTRAMAFIC FLOW

666.4 667.5 GRANITIC DIKE
Same as 646.5 to 665.0.

667.5 776 ULTRAMAFIC FLOW
Grey green to black; fine grained; magnetic.

667.5 to 735.0: Moderate to intensely carbonate altered; 10% carbonate

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LAC EXPLORATIONS

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cap.

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	FEET/ METERS	ASSAY (CORE)						SLUDGE		MAGNETICS		
							AU	ppb	ppb	ppm	ppm	ppm	ppm	ppm	FROM	TO	NET. %

masses, stringers and veins, also infilling breccia fractures.

681.0 to 683.2: 20 to 30% quartz carbonate veins containing 4 to 5% pyrrhotite and 2 to 3% pyrite.

713.6 to 715.0: Broken core; fault gouge and clay minerals from 715.7 to 716.3.

719.5 to 721.6: 30 to 45% quartz carbonate masses and veins.

@ 731.0: 4 cm quartz carbonate barite? mass.

776.0 776.0 END OF HOLE

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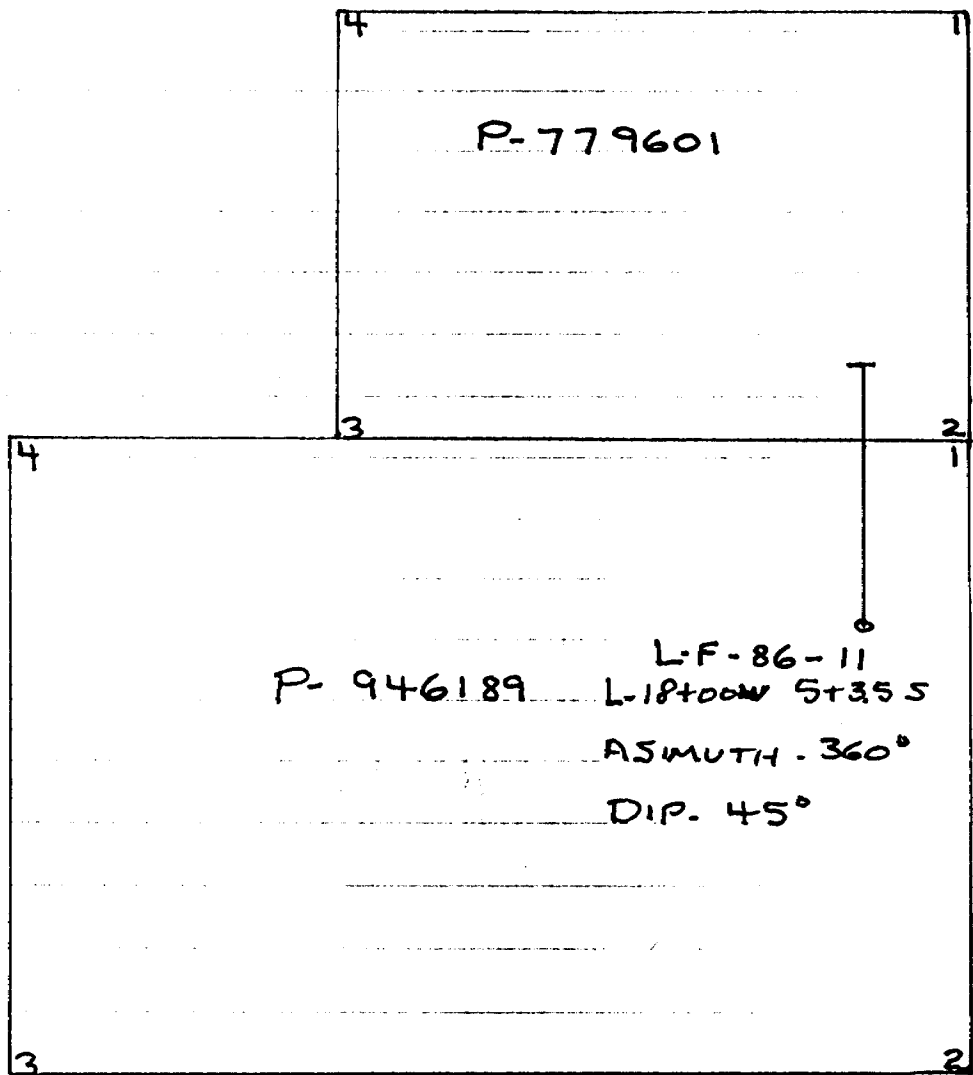
LAC EXPLORATIONS

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● DRILL HOLE LOCATION PLAN.

HOLE - LF-86-11

LANGMUIR TWP. PORC. MINING DIVISION



SCALE 1:5000

SEPT. 15-88



Name and Postal Address of Recorded Holder: David J. McNeill, M-17157

40.3 Dome St. P.O. Box 1624 S. Parry Sound Ont.

Summary of Work Performance and Distribution of Credits table with columns for Mining Claim Prefix, Number, Work Days Cr., and checkboxes for Manual Work, Shaft Sinking, etc.

All the work was performed on Mining Claim(s): P-946189 & P-779601 RB.

Required Information eg: type of equipment, Names; Addresses, etc. (See Table Below)

Drilling Co. PHILIPPON Diamond Drilling Inc. 829 CHEMIN CANADA. C.P. 788 Rouyn JAX SCP. Includes RECEIVED and RECORDED stamps with dates.

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto...

Name and Postal Address of Person Certifying: David J. McNeill, P.O. Box 1624. Includes Date Certified and Signature.

Table of Information/Attachments Required by the Mining Recorder

Table with 4 columns: Type of Work, Specific information per type, Other information (Common to 2 or more types), Attachments.



Mining Act

Name and Postal Address of Recorded Holder: **DAVID J. McEUNIER**
 Inspector's Licence No.: **M-17157**

403 DOME ST. SOUTH PORCUPINE ONTARIO PON-140
 Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed	Mining Claim			Work Days Cr.	Mining Claim			Work Days Cr.	Mining Claim			Work Days Cr.
	Prefix	Number	Work Days Cr.		Prefix	Number	Work Days Cr.		Prefix	Number	Work Days Cr.	
776	P.	826399	40	P.	826407	40	P.	826417	40			
		826400	40		826408	40						680
		826401	40		826409	40						
		826402	40		826411	40						
		826403	40		826412	40						
		826404	40		826413	40						
		826405	40		826414	40						
		826406	40		826415	40						

- For Performance of the following work. (Check one only)
- Manual Work
 - Shaft Sinking Drifting or other Lateral Work.
 - Compressed Air, other Power driven or mechanical equip.
 - Power Stripping
 - Diamond or other Core drilling
 - Land Survey

GEOLOGICAL SURVEY
 ASSESSMENT FILES
 OFFICE
 SEP 20 1989
 RECEIVED

All the work was performed on Mining Claim(s): **P-946189 & P-779661 Langmuir Two**

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

DRILLING Co:
PHILIPPON DIAMOND DRILLING INC.
829. CHEMIN GRANADA,
C.P. 788 ROUYN QUEBEC,
JAX SCP.

CORE SIZE - B

HOLE NO L.F. 86-1

AZIMUTH - 360°

DIP. - -45°

DATE STARTED - 24-09-86

DATE COMPLETED - 28-09-86

TOTAL DEPTH - 776'

EXCESS DAYS
96 DAYS

RECORDED
SEP 16 1988

RECEIVED
 PORCUPINE MINING DIVISION
 SEP 16 1988

Date of Report: **SEPT. 15 1988**
 Recorded Holder or Agent (Signature): *[Signature]*

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: **DAVID J. McEUNIER 403 DOME ST. S. PORCUPINE**
 Date Certified: **SEPT 15 1988**
 Certified by (Signature): *[Signature]*

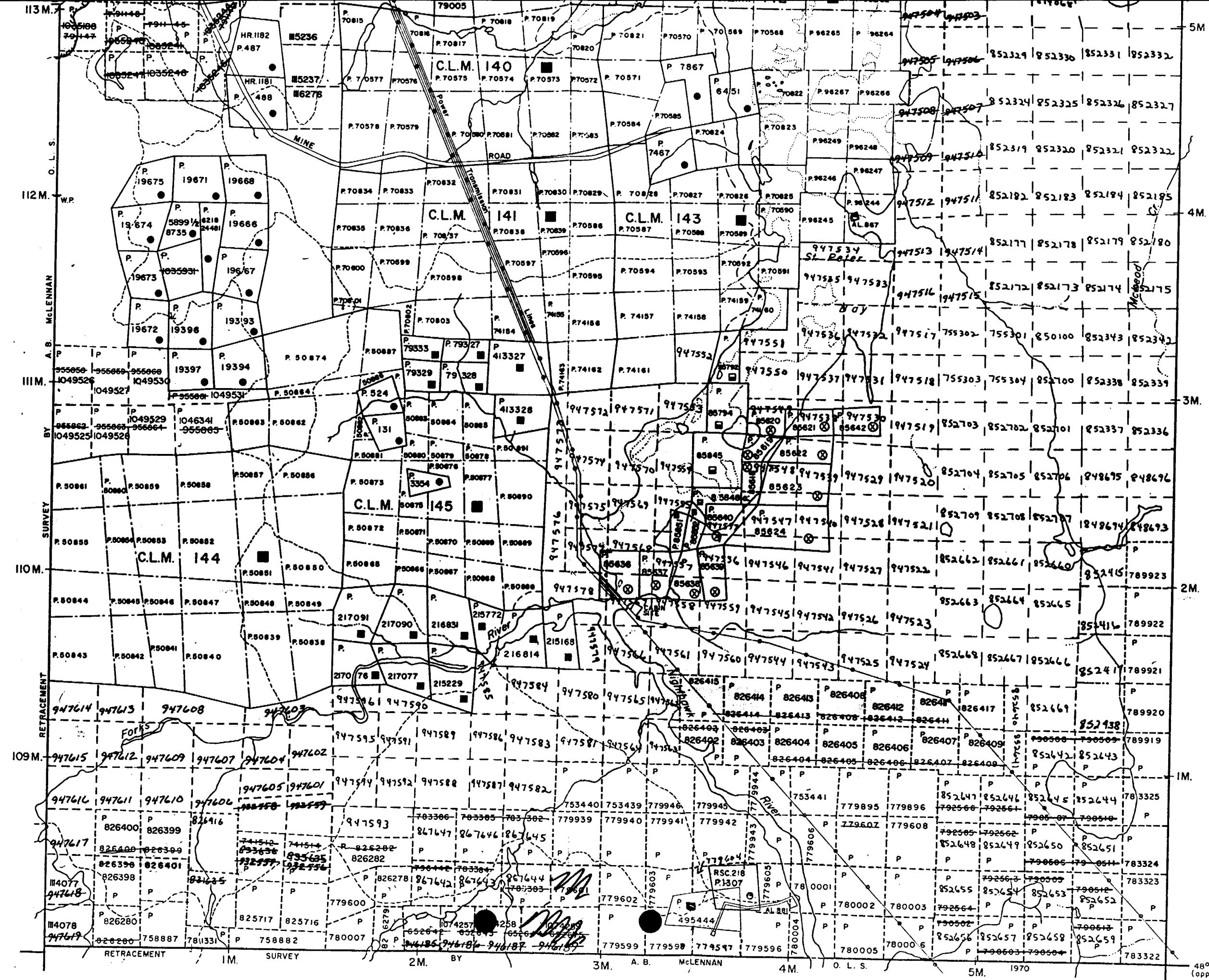
Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific information per type	Other information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment	Names and addresses of owner or operator together with dates when drilling/stripping	
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.		

MUNICIPALITY OF THE
TO THE CONTOUR
HYDRO.

ELDORADO TP.

BLACKSTOCK TP.

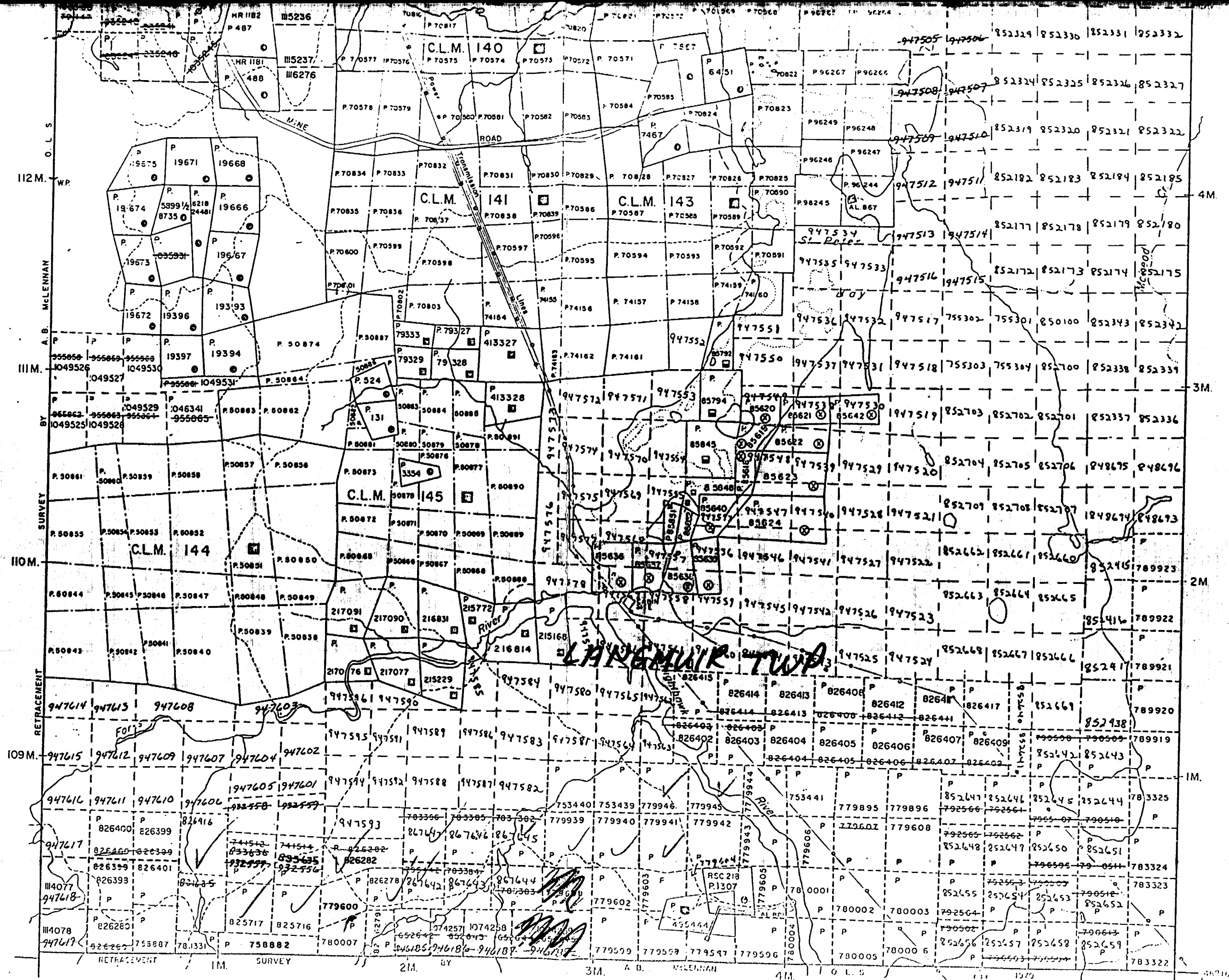


48°16' 38"
(approx.)
80°56' 37"

5M
4M
3M
2M
1M
TOWNSHIP
M.M.
T.M.
P.O.
L.V.
C.O.

LOCALITY OF THE
TO THE CONTOUR
BY

ELDORADO TP.



BLACKSTOCK TP.