



42A06SE0039 61 LANGMUIR

010

DIAMOND DRILLING

TOWNSHIP: LANGMUIR TWP.

REPORT NO: 61

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>
P 779599 & P 779602	LF-86-10	679.12'	Sept/86	(1)

NOTES: (1) # W8906.492, filed Dec/89

\* Correct Log

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

GENERAL INFORMATION

HOLE NUMBER: LF-84-10  
PAGE NUMBER: 1  
LOGGED BY: G. Koveles  
DATE: 20/09/86

PROJECT:

Type of Hole: DD RDM P24

LOCATION: Langmuir Township  
COLLAR: ~~Loc~~ Loc U14+17W  
ELEVATION: COLLAR  
LENGTH: 207.0 meters = 679'.12  
PURPOSE:  
DATE STARTED: 20/09/86

AZIMUTH: 360 DEG.  
DEPARTURE: 4-50S  
BOTTOM:  
RECOVERY:  
DATE ENDED: 24/09/86

DIP:  
CORE SIZE: BQ

ONTARIO GEOLOGICAL SURVEY  
ASSESSMENT FILES  
OFFICE  
NOV 27 1989  
RECEIVED

SURVEY DATA

LOCATION	AZIMUTH	DIP	METHOD	REMARKS
0	360	-45		COLLAR
61				
122		-40	A	
183		-38	A	

*JK*

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 GEOLOGICAL AND ASSAY DATA

GEOLOGICAL AND ASSAY DATA			DRILL HOLE:	PROPERTY:	TARGET:								
FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	FEET/ METERS	ASSAY (CORE) AU	SLUDGE FROM	TO	AU PPB	MAGNETICS FROM	TO	MSL. %
0.00	3.65	OVERBURDEN											
3.65	122.77	<p>ALTERED MAFIC VOLCANIC            Light grey green to dark green black; fine grained; non-magnetic.            30 to 40% grey white alteration bands and lenses, 2 mm to 10 cm wide            at predominantly 55 DEG. to core axis. 5% quartz carbonate feldspar            veins and masses some contain a red brown mineral. &lt;2% pyrrhotite,            pyrite, and minor chalcopyrite is associated with the quartz carbonate            feldspar veins and masses.</p> <p>@ 9.45: 2 cm wide quartz carbonate feldspar mass containing 2%            chalcopyrite.</p> <p>@ 10.87: 5 cm wide quartz carbonate feldspar vein at 90 DEG. to core            axis.</p> <p>13.47 to 13.65: Quartz carbonate feldspar vein. 3 - 5% red brown            mineral; 2% pyrite.</p> <p>@ 15.54: 4 cm wide quartz carbonate vein at 60 DEG. to core axis            containing hard red brown mineral 1 to 3 mm in diameter.</p> <p>@ 16.16 to 183.79: Intensely altered section 5 mm in diameter - red            brown mineral garnet? 3% pyrite and pyrrhotite.</p> <p>@ 22.46: 2 cm quartz carbonate vein at 60 DEG. to core axis.</p> <p>23.56 to 23.59: 1.5 cm long pyrite and pyrrhotite mass along            carbonate stringer.</p> <p>@ 25.54: 2 cm wide felsic dike; white black; medium grained.</p>											

*JN*

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 GEOLOGICAL AND ASSAY DATA

FROM		TO	REMARKS	DRILL HOLE:		PROPERTY:						TARGET:						
SAMPLE NUMBER		FROM	TO	FEET/ METERS	ASSAY (CORE)						BLUDGE		MAGNETICS		YGT.			
					AU	PPB	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM

@ 25.33: 0.5 cm wide quartz carbonate vein with trace pyrite.

33.31 to 33.42: quartz carbonate feldspar vein at 88 DEG. to core axis. 8% pyrrhotite and pyrite.

35.51 to 35.60: Quartz carbonate mass, 5% pyrite and pyrrhotite.

@ 47.03: 2 cm quartz carbonate mass, 10% pyrrhotite and trace chalcopyrite.

@ 46.32: 4 cm quartz mass and pyrrhotite.

@ 46.18: 3 cm quartz vein at 60 DEG. to core axis with 6% pyrrhotite.

60.66 to 60.78: Intensely altered minor pyrrhotite.

@ 65.23: 6 cm wide quartz carbonate feldspar vein at 45 DEG. to core axis.

@ 67.67: 8 cm wide quartz carbonate feldspar mass.

@ 70.22: 12 cm wide quartz vein at 60 DEG. to core axis parallel to foliation at 60 DEG. to core axis.

72.9 to 73.03: Quartz carbonate feldspar mass.

73.15 to 73.72: Quartz carbonate feldspar mass.

73.55 to 73.58: Quartz carbonate feldspar mass.

*JN*

LAC MINERALS LTD.  
GEOLOGICAL AND ASSAY DATA

FROM TO		REMARKS	DRILL HOLE:		PROPERTY:						TARGET:							
			SAMPLE NUMBER	FROM	TO	FEET/ METERS	ASSAY (CORE):						SLUDGE		MAGNETICS			
							AU	PPB	PPB	PPM	PPM	PPM	PPM	PPM	PPM	FROM	TO	WT. %

@ 80.28: Red brown mineral in altered section.

@ 81.41: Ground core and 2 cm ground quartz carbonate vein.

87.61 to 87.70: Felsic Dike  
Grey white; medium grained at 45 DEG. to core axis.

70.62 to 90.98: Mafic Dike  
Dark grey green; medium grained; non-magnetic. Upper contact at 50 DEG. to core axis. Lower contact at 60 DEG. to core axis.

@ 95.22: Quartz carbonate feldspar mass with minor pyrrhotite and reddish brown mineral grains 1 to 2 mm in diameter.

@ 96.74: 2 cm wide quartz carbonate vein at 70 DEG. to core axis with 10% sphalerite. 12 - 3% sphalerite.

@ 98.62: 1.8 cm quartz carbonate vein at 44 DEG. to core axis with 6 - 7% sphalerite and minor pyrite.

106.07 to 106.56: 30% quartz carbonate infilling fractured brecciated section.

109.03 to 109.73: Weak shearing at 33 DEG. to core axis, silicified and carbonate altered. 1.7 cm wide quartz vein at 109.30. From 109.57 to 109.73, 1 to 3 mm cubes of disseminated pyrite, minor epidote alteration. Lower contact sharp at 38 DEG. to core axis.

122.94 123.17 MAFIC DIKE

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GEOLOGICAL AND ASSAY DATA

GEOLOGICAL AND ASSAY DATA			DRILL HOLE:		PROPERTY:						TARGET:								
FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	FEET/ METERS	ASSAY (CORE) AU	ppb	ppb	ppm	ppm	ppm	ppm	SLUDGE FROM	TO	AU ppb	MAGNETICS FROM	TO	MST. %
		Fine grained; dark green; non-magnetic. 3 to 5% disseminated pyrite throughout. Lower contact ground.																	
123.17	124.21	ALTERED MAFIC VOLCANICS Same as 3.65 to 122.99.  @ 123.53: 3 cm wide quartz carbonate feldspar epidote vein at 20 DEG. to core axis.																	
124.21	125.33	MAFIC DIKE Same as 122.99 to 123.17. Disseminated pyrite throughout.  @ 125.12: 2 cm wide quartz carbonate vein at 80 DEG. to core axis, minor pyrite. Lower contact at 80 DEG. to core axis.																	
125.33	126.88	MAFIC VOLCANICS WITH INTERCALATED THIN MAFIC DIKES Mafic volcanics same as 3.66 to 122.99. Mafic dikes same as # to #. Dikes occur at: @ 126.22: 3.2 cm wide dike at 32 DEG. to core axis crosscuts foliation.  @ 126.22: 4 cm wide dike at 32 DEG. to core axis crosscutting foliation.  Note: Foliation, alteration, banding of volcanics at 61 DEG. to core axis.																	
126.88	127.31	MAFIC DIKE Same as 122.98 to 123.17. Contacts ground.																	
127.31	127.71	ALTERED MAFIC VOLCANICS																	

*AN*

LAC MINERALS LTD.  
GEOLOGICAL AND ASSAY DATA

FROM TO		REMARKS	DRILL HOLE:	PROPERTY:	TARGET:				
			SAMPLE NUMBER FROM TO	FEET/ METERS	ASSAY (CORE) AU	SLUDGE FROM TO	AU	MAGNETICS FROM TO	WGT. %
					ppb ppb ppm ppm ppm ppm		ppb		

Same as 3.66 to 122.77. 5% pyrite along fractures and disseminated. Lower contact not distinct.

127.71 128.65 MAFIC DIKE  
Same as 122.99 to 123.17. Lower contact at 30 DEG. to core axis.

128.65 129.78 ALTERED MAFIC VOLCANIC  
Similar to \* to 122.99. Strong alteration banding at 80 DEG. to core axis.  
@ 129.41: Quartz carbonate mass; Lower contact at 50 DEG. to core axis.

129.78 130.00 MAFIC DIKE  
Same as 133.46 to 123.17. Lower contact ground.

130.00 ~~123.05~~ <sup>131.12</sup> ALTERED MAFIC VOLCANICS  
Same as 3.65 to 122.99.  
  
@ 130.24 to 130.45: Quartz feldspar and carbonate altered as masses and stringers.  
  
130.41 to 131.12: 75% quartz carbonate and epidote, minor disseminated pyrite. Lower contact at 32 DEG. to core axis.

~~123.05~~ <sup>131.12</sup> 131.73 INTERMEDIATE DIKE  
Medium grained; non-magnetic; 20 to 30% quartz feldspar. Lower contact not distinct.

131.73 166.88 ALTERED MAFIC VOLCANICS  
Similar to \* to \*. Section slightly less altered than previous

*JN*

LAC MINERALS LTD.  
 GEOLOGICAL AND ASSAY DATA

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

volcanics.

134.48 to 134.84: 1 cm wide quartz feldspar vein parallel to core axis.

@ 138.29: 1 cm wide felsic dike at 25 DEG. to core axis. 85% quartz and feldspar; 15% mafic phenocrysts in a medium grained pink white matrix.

138.90 to 143.26: Broken core. Section grey green in colour, lacks alteration banded appearance, may be sediments?

@ 143.50: 4 cm wide quartz carbonate mass.

@ 144.08: Ground 4 cm wide quartz carbonate feldspar vein.

144.35 to 145.02: Alteration banding at 70 DEG. to core axis. 4% sphalerite with quartz carbonate masses elongate parallel to foliation.

@ 1: Trace of galena.

@ 145.26: Banded alteration?  
 Bedding at 55 DEG. to core axis.

@ 145.66: Trace of galena along thin 2 mm quartz carbonate stringer.

@ 145.75: Sphalerite as a vein paralleling a 2 mm wide carbonate stringer at 57 DEG. to core axis.

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ISC MINERALS LTD.  
 GEOLOGICAL AND ASSAY DATA

FROM		TO	REMARKS	DRILL HOLE:		PROPERTY:						TARGET:							
SAMPLE NUMBER		FROM	TO	FEET/ METERS	TO	ASSAY (CORE)						SLUDGE		MAGNETICS					
						AU	ppb	ppb	ppm	ppm	ppm	ppm	FROM	TO	AU	ppb	FROM	TO	MGT.

146.03 to 146.9: Broken core.

@ 147.16: Sphalerite, galena and chalcopryite as 4 to 12 mm mass along a quartz carbonate stringer at 19 DEG. to core axis.

Distinct alteration seen above.† Mafic volcanics decrease and gradually end by †. Down section only green altered areas and minor quartz carbonate veins are seen.

152.87: Sphalerite and chalcopryite along 2 mm quartz carbonate stringer at 40 DEG. to core axis.

@ 152.92: Trace of galena along fracture.

@ 153.07: Galena.

@ 153.98: 1.5 cm wide quartz vein at 75 DEG. to core axis, minor chalcopryite.

@ 154.44: 8 mm wide quartz carbonate stringer at 50 DEG. to core axis with minor sphalerite.

@ 155.63: Quartz carbonate mass with minor sphalerite.

162.64 to 162.79: Quartz feldspar carbonate vein with sphalerite, chalcopryite, and trace of galena.

@ 163.19: Galena.

@ 163.19: 1 cm sphalerite mass along fracture at 60 DEG. to core axis.

*JH*

LAC MINERALS LTD.  
GEOLOGICAL AND ASSAY DATA

FROM TO		REMARKS	DRILL HOLE:		PROPERTY:						TARGET:					
			SAMPLE NUMBER	FROM TO	FEET/ METERS	ASSAY (CORE)						SLUDGE		MAGNETIC		
						AS	PPB	PPB	PPB	PPB	PPM	PPM	FROM TO	AG	FROM TO	MS

165.8 to 167.03: Broken core. Broken core at lower contact.

166.66 171.91  
ULTRAMAFIC FLOW PERIDOTITIC KOMATIITE  
Grey green; fine grained; strongly magnetic. No visible flow textures. Serpentinized and carbonate altered. 10% carbonate as stringers and masses. No visible foliation as seen in above units, minor pyrrhotite.

169.32 to 170.84: Section is dark grey black.

170.64 to 171.91: 20% carbonate throughout.

@ 171.66: 1 cm wide zone of fault gouge at 68 DEG. to core axis.

171.91 180.05  
MAFIC VOLCANIC FLOW  
Dark green; fine grained; non-magnetic.  
5% quartz carbonate veins at all angles to core axis. Some contain minor pyrite and chalcopyrite. No distinct alteration as seen in mafic volcanics higher in section. 3% disseminated pyrite.

172.82 to 173.52: Broken core.

174.19 to 174.89: Broken core.

175.26 to 175.47: Broken core. Pyrite on fractures surfaces. Lower contact ground.

180.05 181.08  
LAMPROPYRE DIKE  
30%, 1 mm black biotite phenocrysts in light coloured carbonate rich

*JK*

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

metre. Black; medium grained; non-magnetic. Broken core throughout section.

181.08 182.88  
 MAFIC VOLCANIC?  
 Dark grey; fine grained; non-magnetic.  
 Badly broken core throughout.

@ 182.0: 0.91 m<sup>3</sup> ground core. No distinct lower contact visible.

182.88 207.78  
 ULTRAMAFIC FLOW PERIDOTITIC KOMATIITE  
 Grey to black; fine to medium grained; magnetic.  
 Intensity of carbonate alteration decreases down section. Minor pyrrhotite, pyrite and trace chalcopyrite visible particularly with quartz carbonate veins and on fracture surfaces. Badly broken core throughout. No primary flow textures visible until 201.17.

182.88 to 187.76: Carbonate altered grey; moderately serpentinized; polygonal joints, skeletal foliated olivine.

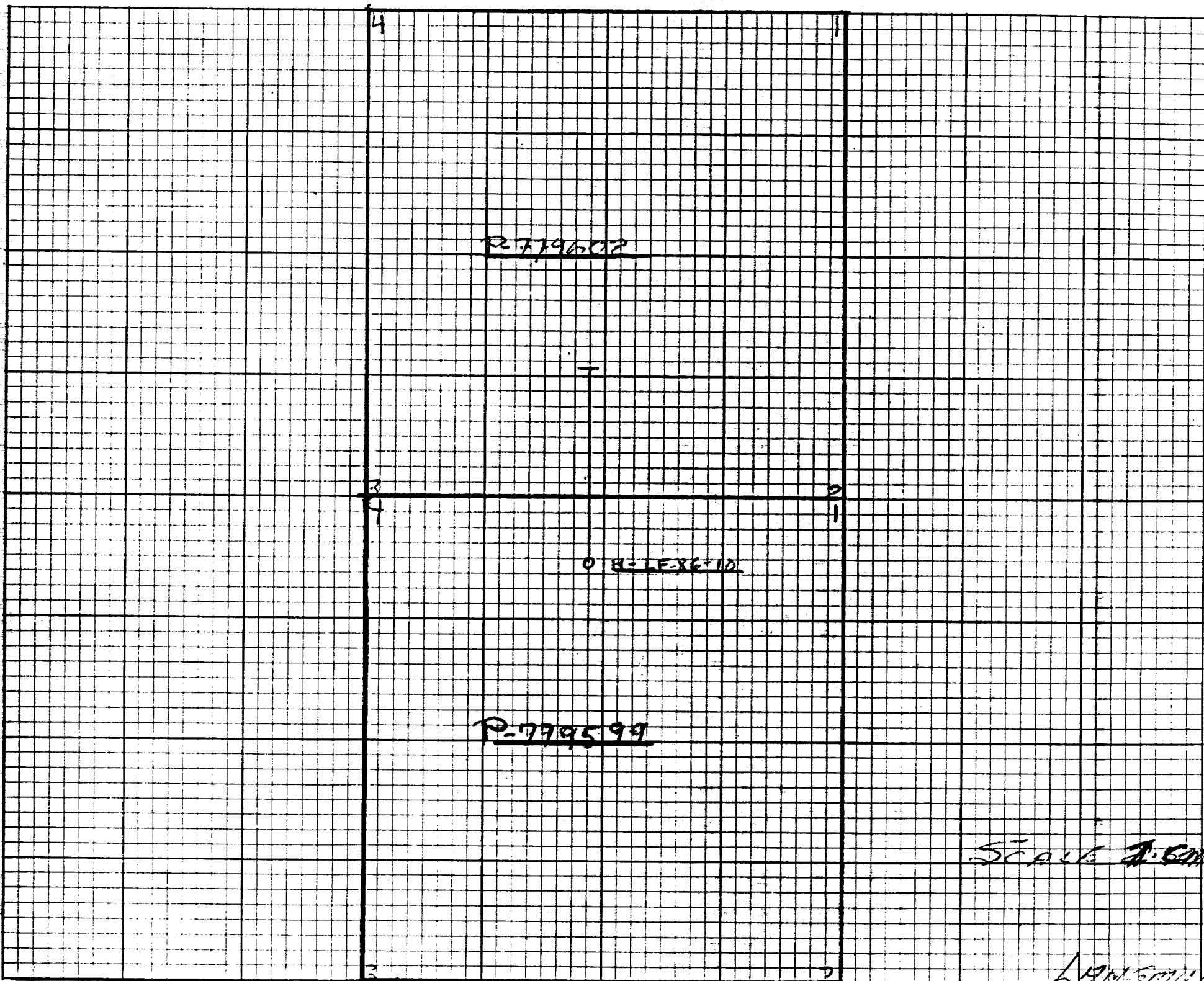
186.20 to 186.47: 2 cm wide fault gouge with pyrite sheared at 45 DEG. to core axis.

@ 194.95: Ground 4 cm wide quartz carbonate vein with pyrrhotite, pyrite and chalcopyrite.

207.78  
 END OF HOLE

*John Kovel*

LOCATION OF HOLE H-LE-86-10

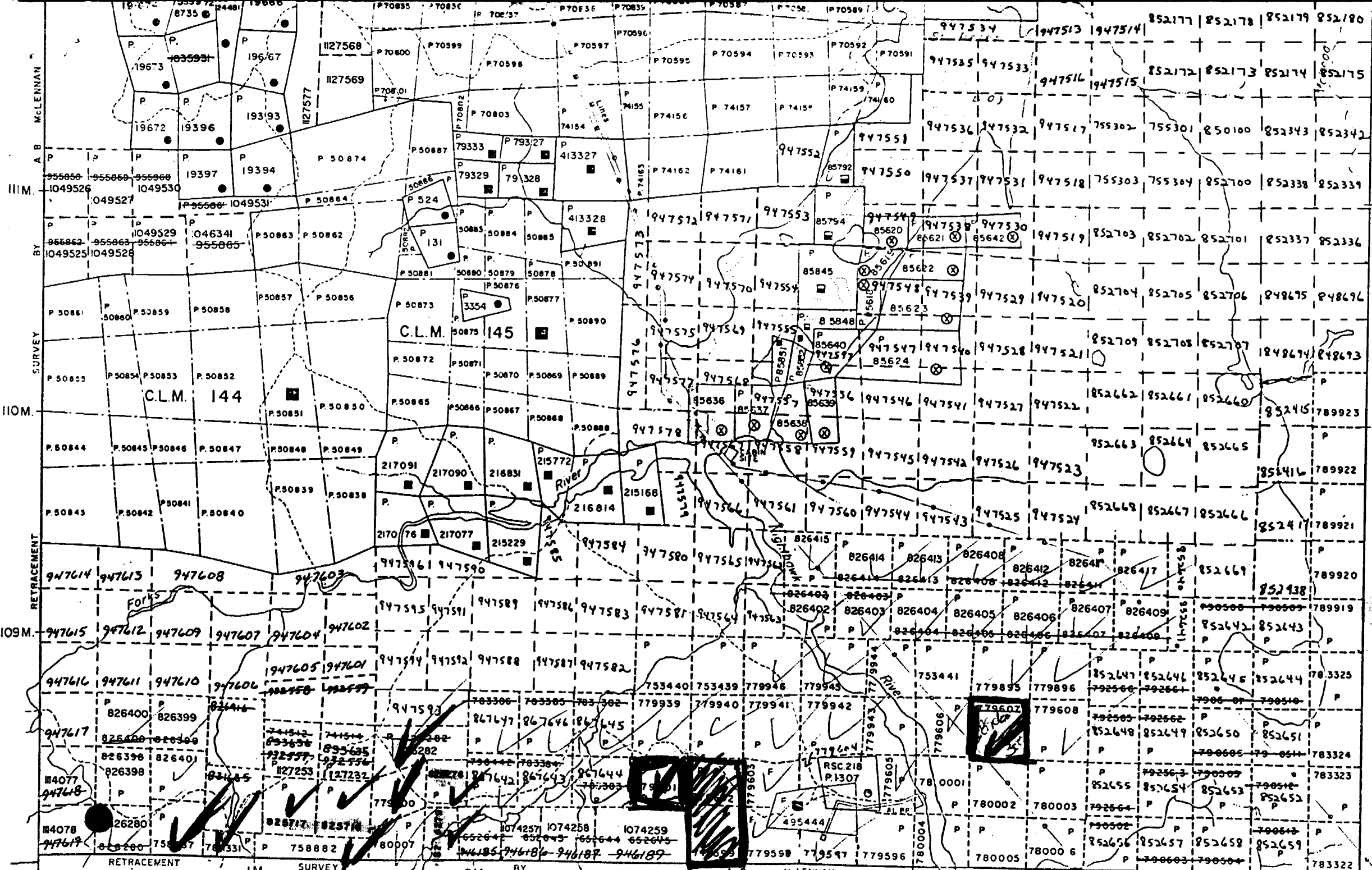


SCALE 1:50000 40M

W98080 8 X 8

L-15T00W L-14W L-13W 3.5 Mi Post. L-12W

L-15T00W  
FOLLOW THE



BLACKSTOCK TP.

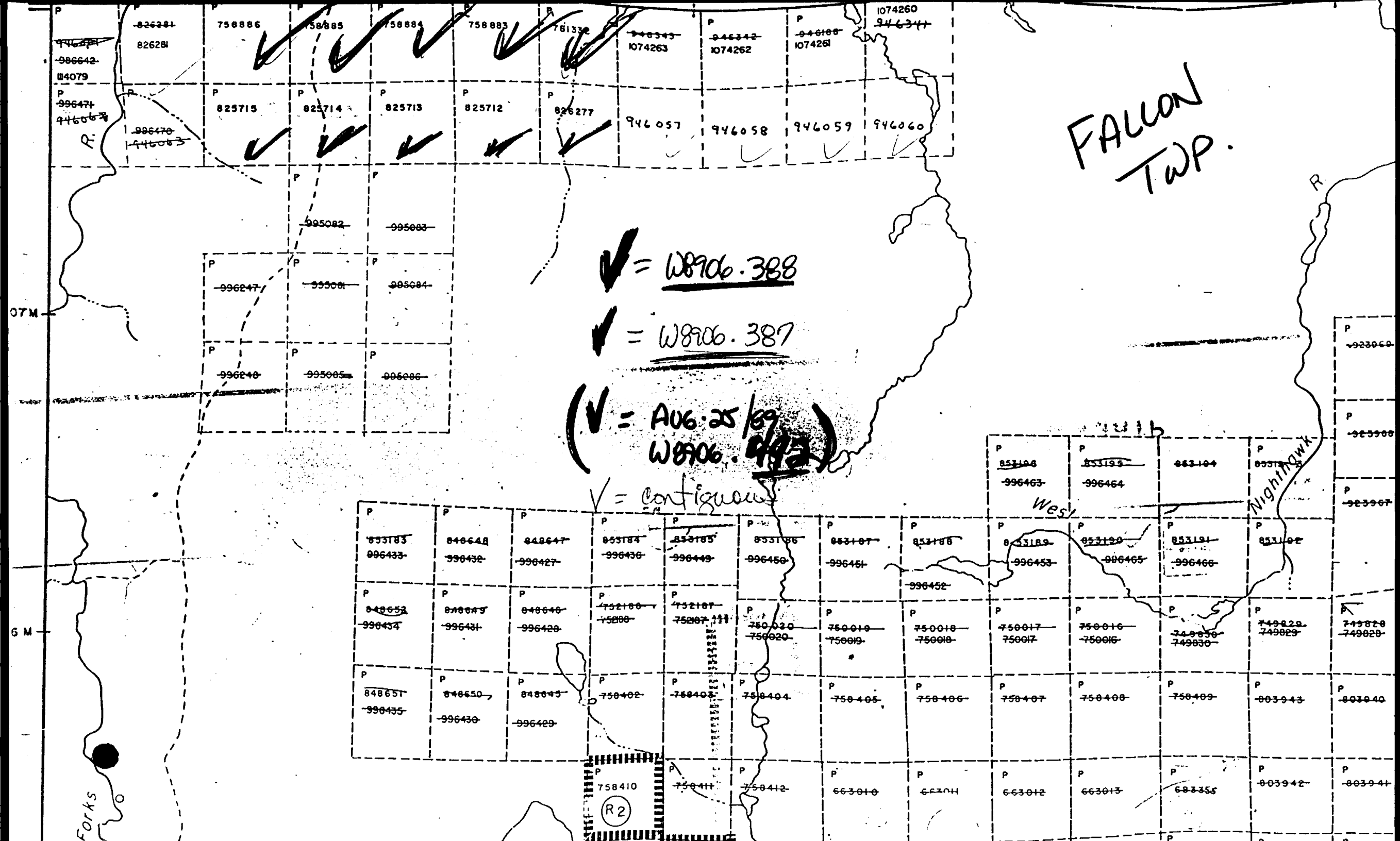
*LAKEVIEW  
W.P.*

RETRACEMENT SURVEY 1M. 2M. 3M. 4M. 5M. 1970

40°16'36"  
(approx)  
80°56'37"

FALCON  
TWP.

✓ = W8906.388  
✓ = W8906.387  
(✓ = AUG. 25 / 89  
W8906.492)  
✓ = contiguous



826281 826281	758886	758885	758884	758883	781332	1074263	1074262	1074261	1074260 946344
825715	825714	825713	825712	826277	946057	946058	946059	946060	
995082	995083								
996247	995081	995084							
996240	995085	995086							

853183 996433	848648 996432	848647 996427	853184 996436	853185 996449	853186 996450	853187 996451	853188 996452	853189 996453	853190 996465	853191 996466	853192	
848652 996434	848649 996431	848646 996428	752180 75000	752181 75207	750020 750020	750019 750019	750018 750018	750017 750017	750016 750016	749828 749829	749828 749828	
848651 996435	848650 996430	848645 996429	750402	750403	750404	750405	750406	750407	750408	750409	803943	803940
			758410	758411	758412	663010	663011	663012	663013	683355	803942	803941

R2



Name and Postal Address of Recorded Holder  
 David J. McInnis P.O. Box 1624 M-17157  
 403 DUNDAS ST. S. PERUWÉ, Q.T.

Summary of Work Performance and Distribution of Credits

Total	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.	
540	P.	825712	60			826279	60					
		825713	60									
		825714	60									
		825715	60									
		825716	60									
		825717	60									
		826277	60									
		826278	60									

MINING GEOLOGICAL SURVEY ASSESSMENT FILES OFFICE

NOV 27 1989

RECEIVED

NOV 25 1989

All the work was performed on Mining Claim(s): P-779599-P-779602

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

EXCESS CREDITS. USED FROM REPORT OF WORK DATED SEPT-16-1984 (W8906.387) ~~86~~ 86 1/2

EXCESS CREDITS OF 185.7 DAYS DRAWN FROM REPORT OF WORK FORM DATED JAN 11 89. 185.7

DRILLING. CO. PHILIPPON DIAMOND DRILLING INC. 829. CHEMIN GRAYAOR. CP. 788 ROLLYM QUEBEC, J9X. 5CP. CODE SIZE BQ. CREDITS REMAINING 390.7

HOLE NO. LF. 86-10 AZIMUTH - 360° DIP. 45° DATE STARTED. 2009.86. DATE COMPLETED. 24.09.86. TOTAL DEPTH - 679'

TOTAL CREDITS = ~~920.7~~ 920.7  
 CREDITS USED = 540  
 CREDITS REMAINING = 380.7

Date of Report: Aug 25 1989  
 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. McInnis P.O. Box 1624  
 403 DUNDAS ST. S. PERUWÉ, Q.T.  
 Date Certified: Aug 25 1989  
 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	Type of equipment		
Compressed Air, other power driven or mechanical equip.	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.	Names and addresses of owner or operator together with dates when drilling/stripping	
Power Stripping			