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Mining Technologist
Project Supervisor
January, 1981.

LENORA EXPLORATION LTD.

BY

AGREEMENT KL 153, 1980-81

MINERAL EXPLORATION ASSISTANCE PROGRAM

ON THE ONTARIO

MINERAL EXPLORATION REPORT

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63.3818

TRODUCTION:

The following report pertains to the exploration work conducted under the terms of the "Mineral Exploration Assistance Program" Agreement KL 153 between the Ontario Government and Lenora Exploration Ltd. The period of Agreement is from October to February 15, 1981 during which time Lenora Exploration Ltd. performed more than \$100,000 worth of various surface exploration work and subsequent diamond drilling within the M.E.A.P. Agreement area.

The exploration work was carried out over this area in attempt to locate and extend new zones of gold mineralization previously located by diamond drilling of surface gold showing.

LOCATION:

The claims concerned are located in the Larder Lake Mining Division and consist of two groups of unpatented mining claims in McVittie and Hearst Townships.

The Omega Group lies in the south-central part of McVittie Township while the west group is in the south-west part of the Township directly north and east of the town of Larder Lake. The groups are readily accessable from Highway 66 which bounds both groups to the south and the Ontario Northland Railway bounds the Omega Group to the north.

CLAIMS:

The 14 unpatented claims listed below comprise the M.E.A.P. agreement. One block of 7 claims forms the "Omega Group" to the east while a block of 7 claims forms the "West Group".

Patented surface rights cover three claims, L313769, L313770 and L419377 of the west group and are not owned by Lenora Exploration.

Omega Group - McVittie Tp.

L313741
L313742
L313743
L313744
L313745
L313746
L419096

West Group - McVittie Tp.

L411208
L411209
L341811
L441494
L419377
L313770
L313769 Hearst Tp.

Total - 14 claims

GRIDING:

In the fall of 1980 G. Bastarache of Kirkland Lake was contracted to cut and chain approximately 3.1 miles of grid on the "Omega" property and 13.5 miles of grid on the "West Group". The "West Group" grid consists of a baseline striking 070° with picket lines at 200' centers over the entire property. The "Omega" baseline strikes 060° and has picket lines cut at 400' centers.

GEOPHYSICAL SURVEYS:

A total of four geophysical surveys were conducted over the two properties, these being, a magnetometer survey using a Geometrics 6826 Proton Precession Magnetometer capable of 1 gamma sensitivity, a Electro-Magnetic Survey using a Phoenix VLF-2 with a north-south station of Cutler Maine and a east-west station of Seattle Washington, a Dipole-dipole Induced Polarization survey and a Apex Parametrics Maxxim II Horizontal Loop Electromagnetic survey to more clearly define anomalies outlined by the I.P. survey.

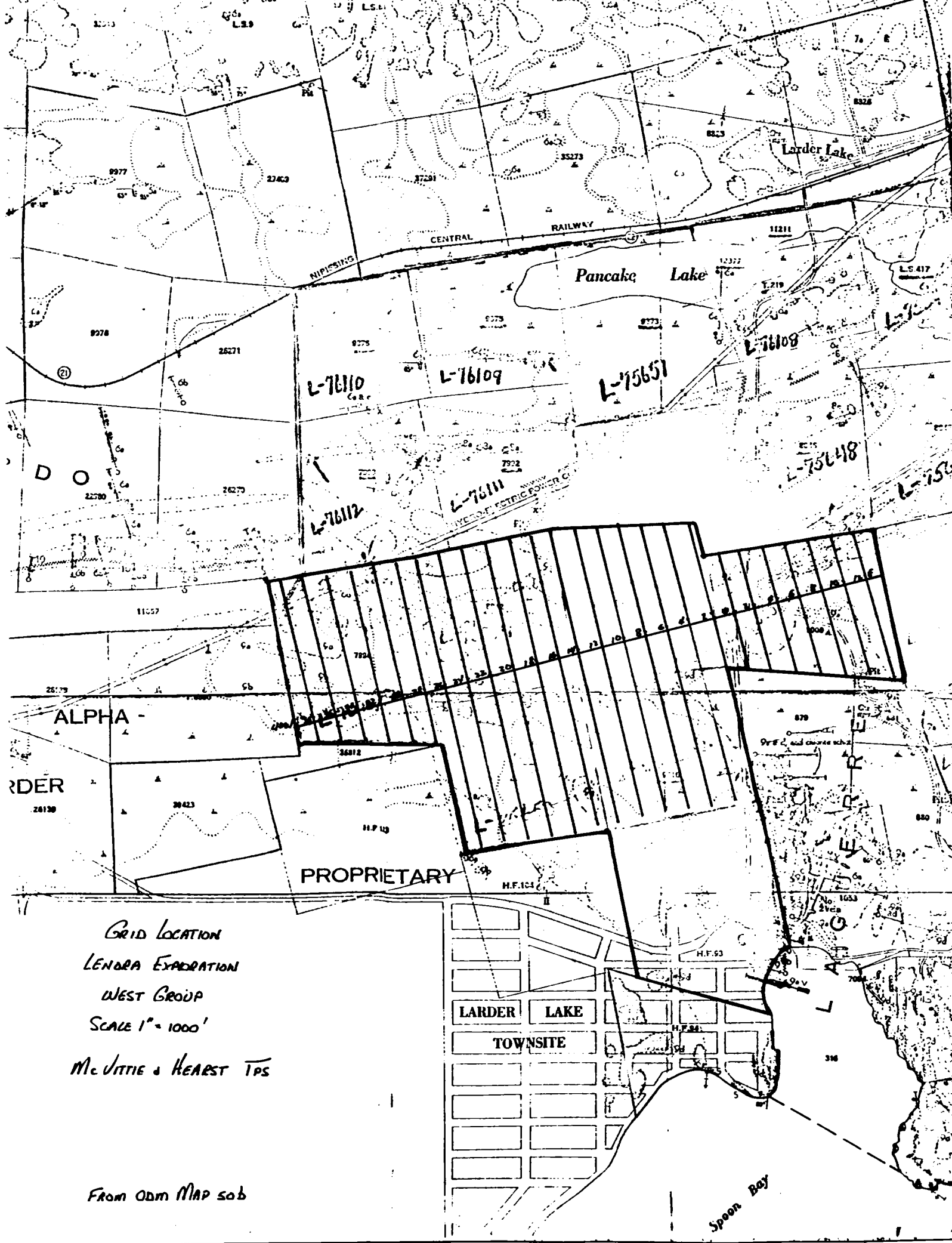
RESULTS:

The results of these surveys are not included in the context of this report.

SURFACE EXPLORATION:

Commencing mid October an extensive program of surface exploration work was started on the "Lenora West Group". Washing of previously stripped areas was undertaken by means of a Honda 3-5 HP pump and fire hose with an adjustable outlet nozzle for adjusting spray patterns. More through stripping of the main showing area was undertaken by means of a CAT D7 tractor with subsequent backhoe trenching, in areas of overburden to deep for removal by blade. Two backhoes were utilized during this program, a timberjack - backhoe combination and a Allis Chalmers 655 crawler loader and backhoe. Stripped trenched and washed areas were then sampled using a STIHL TS350 diamond saw.

Sample interval was 5 feet in length but some 2.5 foot samples were also taken in areas of higher gold values. Some areas were drilled with a "Cobra" gas plugger and blasted before sampling was initiated. Similar work was started to the west of the main showing area on lines 16+00 W, 20+00 W, 22+00 W. This was to follow up



GRID LOCATION
 LENORA EXAMINATION
 WEST GROUP
 SCALE 1" = 1000'
 McVITTIE & HEARST T.P.S.

From ODM MAP 506

I.P. and Maxmin anomalies. Sampling of these areas has not been completed except for a short trench on line 16+00 W, 7 N where low gold values were indicated.

The surface work was terminated by mid December and a diamond drill moved in, by this time approximately 161,000 square feet of stripping by blade, 117,000 cubic feet of trenching by backhoe to a maximum depth of 12 feet and 1698.0 feet of sampling was completed on the "West Group" including the areas stripped on lines 16+00, 20+00 and 22+00 West.

RESULTS:

Results of the surface work indicated a generally folded structure dipping 50° to 90° in a southerly direction. Many faults seem to be associated with the folding, with the three more predominate ones being located at line 4+40 W, 6+00 N line 2+00 N, 5+00 N and line 4+00 E, 0+50 N.

Surface sampling was to depict new gold zones as well to try and extend the previously drilled gold zone found by the Grasset Lake Drilling 1975, (Resident Geologist File Kirkland Lake). A zone carrying good values was located to the east of the main trench area (see map) and yielded values of .15 oz. per ton across 20 feet. To the west a gold zone gave lower values with the best being .04 oz. per ton. This area was tested by diamond drilling and gave better values than what was indicated on surface.

BULK SAMPLING:

A 75 ton bulk sample was taken from the area west of the main trench where .15 oz. per ton across 20 feet was indicated by surface sampling. This is to be milled by Noranda Mines Ltd. so as to give a more reliable grade from which drill results may be compared. This sample has not been shipped for milling as of this date.

DIAMOND DRILLING:

Six holes totalling 1448 feet have been drilled by Heath & Sherwood Diamond Drilling to date which tests the values indicated by surface sampling and to provide geological information. Results of this drilling are outlined by G. Hinse, Consulting Geologist for Lenora Exploration.

Respectfully submitted,


Glenn C. Kasner.

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MEAP KL-153

REPORT ON A
DIAMOND DRILL PROGRAM
DONE ON THE WEST GROUP
OF
LENORA EXPLORATION LIMITED
IN
MCVITTIE TOWNSHIP, ONTARIO

Sudbury, Ontario
February 12, 1981

G.J. Hinse, P.Eng.

REPORT ON A
DIAMOND DRILL PROGRAM
DONE ON THE WEST GROUP
OF
LENORA EXPLORATION LIMITED

INTRODUCTION

This report has been prepared at the request of Lenora Exploration Limited and it describes the results of a drill program done by that Company on their west group of claims located in McVittie township, Larder Lake Mining Area. The purpose of the program is to test a horizon of carbonate rock where surface work done lately by Lenora Exploration and previously by Grasset Lake Mines has indicated the presence of gold values.

The property consists of 7 unpatented mining claims located in the southwest quarter of McVittie township immediately north of the town of Larder Lake. The claims are registered under the following numbers: L 411208, L 411209, L 341811, L 441494, L 419377, L 313769 and L 313770.

The claim group is adjacent and crossed by Highway 66, thus access is relatively easy.

GEOLOGY

All the rocks found on the property are Precambrian in age and consist of mafic to ultramafic volcanic rocks belonging to the Larder Lake Group, interlayered and overlain by carbonate rock belonging to the Kerr Group. The oldest rocks are in conformable contact with clastic sedimentary rocks belonging to the Barber Lake Group. Furthermore, on the property, all the above rocks are in faulted contact with a suite of sedimentary rocks containing

at the base a horizon of conglomerate rich in iron formation clasts. The relationship of this unit to the older rocks is unknown.

All the rocks have been subjected to several periods of deformation with some of these accompanied by intrusive activities including hydrothermal alteration.

The property lies on the south limb of an overturned anticline with the axis lying close to the north boundary of the property. There are numerous faults on the property. Most of these faults control a pattern of block faulting found where the formations turn from east-west to north-south in the showing area. There are also a few strike faults and possibly some thrust faults. The overall structural pattern is complex and not yet fully understood.

In the current program of diamond drilling, only rocks belonging to the Larder Lake Group and Kerr Group were intersected. The carbonate rock of the Kerr Group are found within ultramafic rock of the Larder Lake Group. The carbonate rock consists of conglomerate at the base grading into carbonate-rich mudstone, then into rhythmic-layered chemical carbonate rock. In places, the conglomerate contains sections of mass-flow tuff with volcanic and mica-rich shards of the base.

In the carbonate rock, gold is found associated to an end-cycle composed of chert, feldspar, pyrite and carbonate.

The carbonate rock are grey, green or buff subject to the type of mica which can either be muscovite, sericite or fuchsite. In places the carbonate rock also contains up to 40% very fine volcanic material which appears to be basaltic in composition. In such a case the carbonate rock is massive. Where it contains ultramafic material, it usually schisted and called a chlorite- carbonate schist.

DIAMOND DRILL PROGRAM

A total of 1,555 feet of diamond drilling in 6 holes was done to test the gold-bearing carbonate rock in the showing area located on claims L 341811 and L 441494. All the holes were drilled from south to north to intersect the carbonate rock horizon to the ultramafic footwall.

The location of the holes is shown on the compilation map at 1" = 400 feet attached to this report. The map legend also explains the abbreviations used in the drill logs.

Holes 80-1, 80-2A and 80-2B were drilled on a section 50 feet west of hole 75-4 drilled by Grasset Lake Mines in 1975, and 100 feet west of holes 75-1, 75-2, 75-3 and 75-6 also drilled by Grasset Lake Mines. Hole 80-1 collared into carbonate rock which was intersected to a depth of 114 feet, followed by conglomerate to a depth of 142 feet and ultramafic. The hole was completed at a depth of 206 feet. Hole 80-2A was lost at a depth of 97.0 feet when the casing broke. Hole 80-2B, at the same location was drilled at a steeper angle to attain a better penetration of the overburden. This hole collared into ultramafic at a depth of 117 feet. This was followed by carbonate rock from 240 to 346 feet where it intersected conglomerate to 367 feet followed by ultramafic. The hole was completed at a depth of 447 feet.

The best values intersected in hole 80-1 are 0.17 opt of gold along a core length of 4.2 feet at 69.1 feet and 0.13 opt of gold along a core length of 5.0 feet at 100.0 feet. In both cases, values are related to the pyrite and chert content of the carbonate host rock. Hole 80-2B returned low values.

Holes 80-3, 80-4 and 80-5 were drilled on a section 150 feet east of holes 80-1 and 80-2 or 50 feet east of holes 75-1, 75-2, 75-3 and 75-6. The main purpose of holes 80-3 and 80-4 was to follow up the values intersected in a surface trench which returned 0.15 opt of gold along a surface width of 20.0 feet. Hole 80-3 collared into carbonate rock to a depth of 48.0 feet followed by conglomerate to a depth of 81.0 feet where the hole was stopped.

Hole 80-4 collared into carbonate rock at 13.0 feet to a depth of 141.0 feet where it was ended. Hole 80-5 drilled 160 feet south of holes 80-3 and 80-4 collared into ultramafic to a depth of 121 feet, followed by carbonate rock to 220 feet, conglomerate to 275 feet and ended in ultramafic at 297 feet.

The best values intersected in hole 80-3 are 0.13 opt of gold along a core length of 11.0 feet at 22.0 or 0.08 opt of gold along a core length of 25.3 feet at 19.5 feet. The core assays for hole 80-4 have not been received as yet, but the sludge assays indicate that some values can be expected in the upper and lower part of the carbonate rock horizon. Hole 80-5 only returned low values in the sludge assays. Core assays are not available.

Hole 80-6 was drilled to test the carbonate rock horizon in the fold area where the strike changes from east-west to north-south. This hole intersected carbonate to a depth of 58 feet followed by conglomerate interlayered with mass-flow tuff and minor chemical carbonate to a depth of 247 feet. The hole was completed in ultramafic at a depth of 286 feet. Core assays are not available but sludge assays only returned low values in gold.

CONCLUSIONS

Gold values intersected to-date are related to two distinct horizons in the carbonate rock. Both horizons are characterized by a basal mudstone unit composed of fine to coarse grained grey carbonate, muscovite and very fine grained muddy material which includes some clay minerals. The mudstone of the lower horizon is in contact with the basal conglomerate.

Gold values are related to the pyrite and chert content of the host carbonate rock.

The current program is for 3,000 feet of diamond drilling and should be continued to identify trends in the mineralized carbonate rock.

Respectfully submitted



G.J. Hinse, P.Eng.

Sudbury, Ontario
February 12, 1981

DIAMOND DRILL RECORD

Company..... Lenora Exploration Limited Hole No..... 80-1
 Location..... McVittie Twp Date Started..... Dec. 6, 1980 Page No..... 1
 Level..... Surface Date Finished..... Dec. 17 1980 Core Size..... BQ
 Bearing..... North Logged *G. Hinse* G. Hinse Test - Acid Tropari
 Inclination..... -45° Core Saved Discarded Strike Dip 40°
 Total Depth..... 206.0' Elevation..... 979 At 150'
 Coordinates Collar - Lat..... 527W Dep..... 562N At

Footage From - To	Geological & Physical Description	Sample Number	From - To	Au oz/ton
0.0- 14.0	Casing			
14.0- 15.0	Basalt, possibly boulders			
15.0- 15.7	Acid porphyry, 70-80 F, 20-30% Q low grey pink, 3-5% fine py. Contacts with above and below destroyed. Boulders?	11601	15.0- 15.7	.002
15.7- 20.3	Bf cb sc, 60-90° to c.a., cherty, 3-5% f. py, 30-40% chert, 20% sericite 16.7-17.6 irregular Q-cb vein	11602	15.7- 17.6	.002
		3	17.6- 20.3	.002
20.3- 54.0	Cb Sc, 10% sericite, 10-20% chert in clast & gash vnlets, 30-40% gn chl, 1-3% py, wkly contorted, 80° to c.a.	4	20.3- 22.5	.002
		5	22.5- 25.0	NIL
		6	25.0- 27.5	NIL
		7	27.5- 30.0	NIL
		8	30.0- 32.5	NIL
		9	32.5- 35.0	NIL
		11610	35.0- 37.5	NIL
		1	37.5- 40.0	NIL
		2	40.0- 42.5	NIL
		3	42.5- 45.0	NIL
		4	45.0- 47.5	NIL
		5	47.5- 50.0	NIL
		6	50.0- 52.5	NIL
		7	52.5- 54.0	NIL
54.0- 84.0	Bf cb sc, 70° to c.a., 20-30% chert in clasts, gash fractures, vnlets, wkly cont'd. 1-3% py			
		11618	54.0- 56.5	NIL
		9	56.5- 59.0	NIL
		11620	59.0- 61.5	NIL

DIAMOND DRILL RECORD

Hole No. 80-1

Page No. 2

Footage From - To	Geological & Physical Description	Sample Number	From - To	Au oz/ton	
		11621	61.5- 64.0	.005	
		11622	64.0- 66.5	.005	
		11623	66.5- 69.1	.01	
	Up to 10% py	11624	69.1- 70.8	.09	} .17/ /4.2
		11625	70.8- 73.3	.22	
		11626	73.3- 75.8	.002	
	70.8-79.0 Bf, 50-60% ser.				
		11627	75.8- 79.0	.002	
	79.0 incr. in volc. mat.,				
	gradual change to bf-grey cb.	11628	79.0- 81.5	.005	
		11629	81.5- 84.0	.11	
84.0- 85.9	Contorted Q-cb, chert clasts at	11630	84.0- 85.9	.005	
	85.9, 5-10% py in matrix				
85.9- 95.0	Md , up to 10% chert & Q, 70-80°				
	to c.a. Gradual change to Bf cb				
95.0-109.3	Bf cb, almost mass, 20-30% chert in	11631	95.0- 97.5	.005	chert
	vnlets, patches, 1-3% f. py	11632	97.5-100.0	.08	.03
		11633	100.0-102.5	.12	} .13/ /5.0
		11634	102.5- 105.0	.14	
		11635	105.0-107.5	.03	
		11640	107.5- 109.3	.002	
109.3-112.3	Gn cb with up to 10% chert.	11641	109.3-112.3	.002	
112.3-113.8	Gn cb breccia, 60% Q & cb	11642	112.3-113.8	N-1	
113.8-114.5	Cgl, 20% chert clasts, 3/8" in ba	11643	113.8-116.9	N-1	
	matrix				
114.5-120.0	Gy cb, 10% chert, greater than 1%				
	py	11644	116.9-120.0	.002	
120.0-133.9	Cgl, 10% clasts, chert, iron				
	formation, chlorite, in an Um-Ba				
	matrix with 30-40% cb. Last 1',	11704		N-1	
	syenitized	11705	130- 134.0	.002	
133.9-141.8	50% Q, minor cb, highly irreg,				
	related to 2 small sy dikes at				

138.0 and 139.5.

DIAMOND DRILL RECORD

Hole No.....80-1....

Page No.....3....

Footage From - To	Geological & Physical Description	Sample Number	From - To	Au oz/ton
		11645	133.9-138.0	N.I.
		11646	138.0-138.8	N.I.
		11647	138.8-141.8	N.I.
141.8-206.0	Um, mass, dk gy-gn, broken up, sev muddy fractures. Contains few well-rounded flat clasts of lamprophyre up to 2". 45-90° c.a.			
	147.0-149.0, mud, fault contains sev. lamprophyre dikes, 163.4-172.6; 196.0-199.0; 202.0- 206.0, 45-60° to c.a.			
206.0	End of hole		SLUDGES	
			11-27	.002
	Drilled by Heath & Sherwood Drilling		21-27	.002
	P.O. Box 998		31-31	.002
	Kirkland Lake, Ontario		41-41	.002
			51-57	.002
	Core stored at Kenogami Lake, Ontario		67-77	.002
			77-87	.002
			87-92	.002
			97-107	N.I.
			107-117	.002
			117-127	.002
			127-131	.002
			137-147	.002
			147-157	.002
			157-167	.002
			167-177	.002
			177-187	.002
			187-197	.002
			197-207	.002
			207-206	.002

DIAMOND DRILL RECORD

Company.....Lenora Exploration Limited.....Hole No.....80-2B.....
 Location.....Larder Lake.....Date Started.....Page No.....1.....
 Level.....Surface.....Date Finished.....Jan. 11, 1981.....Core Size.....BQ.....
 Bearing.....N.....Logged.....G.J. Huse G. Hinse.....Test - Acid Tropari
 Inclination.....60°.....Core Saved Discarded Strike.....Dip.....
 Total Depth.....447.0'.....Elevation.....970.....At 150.....58°
 Coordinates Collar - Lat.....626 N.....Dep.....322 N.....At 300.....51°
 At

Footage From - To	Geological & Physical Description	Sample Number	From - To	Au oz/ton
0.0-117.0	Casing			
	NO Casing to 97.0			
117.0-240.2	Um. f. gr'd, dk gy-bk, fairly mass, well lin'd 45° to c.a. Soft, talcy			
	Lamprophyre, 118.0-120.3; 134.5-136.5; 223.7-227.0; 227.8-235.0			
	Lost core 140.0-149.5			
	206.0-208.7 syenite, v.f. gr'd, tr py, 30-70° to c.a.			
	208.7-220.0, 10-20% well-rounded clasts of above, bondinage?			
240.2-287.0	Carbonate, gy-bk , 20-30% ser., less than 10% chert & Q, 20-30% gn chl, 3-5% py. Well lin'd 45° to c.a. At 247.0 ser decreasing to less than 10%			
		11648	240.2-241.5	.002
		11649	241.5-247.0	.002
	2" chert, Q, 20-25% py @ 251.0, 20% Q-cb	11650	250.9-252.9	1.1
	30% wh Q-cb	11651	252.9-254.9	.002
	50% wh Q, 10% chert, 10% sericite	11652	254.9-256.8	.002
	60% wh Q-cb	11653	258.2-259.6	.002
	70% wh Q-cb, 10% sericite	11654	262.0-264.1	1.1
	277.0 gradual change to gy-bf cb,	11655	277.0-279.5	1.1

DIAMOND DRILL RECORD

Hole No...80-2B.....

Page No.....2.....

Footage From - To	Geological & Physical Description	Sample Number	From - To	Au oz/ton
	up to 10% Q-ch-cb, 1-2% f. py	11656	279.5-284.5	.002
		11657	284.5-287.0	.002
287.0-321.8	Bf-gy cb, 10-30% chert-Q, 40-50% ser., 10% py, changing to a more Md cb at 291.0 with 1-2% py	11658	287.0-291.0	.002
		11659	291.0-295.6	N./
		11660	295.6-299.3	N./
		11661	299.3-301.8	N./
		11662	301.8-304.3	N./
		11663	304.3-306.5	N./
		11664	306.5-309.0	N./
		11665	309.0-314.0	N./
		11666	314.0-317.0	N./
		11667	317.0-319.7	N./
		11668	319.7-321.8	N./
	320.0, gradual change to bf cb			
321.8-341.0	Bf cb, 70 ^o to c.a., 60-80% ser, 1-2% py			
		11669	321.8-324.3	.002
		11670	324.3-327.0	.002
		11671	327.0-329.5	N./
		11672	329.5-332.0	.002
	80% Q-cb, 1-2% aspy, 3-5% py	11673	332.0-333.7	N./
		11674	333.7-335.5	.002
		11675	332.0-324.5	N./
		11676	324.5-328.0	.002
	40% wh Q-cb, 2-3% py	11677	328.0-329.0	N./
		11678	329.0-332.4	.005
	50% wh Q-cb	11679	332.4-333.5	
		11680	333.5-337.0	
	335.0 gradual change to mudstone, then at 337.0, gy-bf carb.			

DIAMOND DRILL RECORD

Hole No.....80-2B....

Page No.....3....

Footage From - To	Geological & Physical Description	Sample Number	From - To	Au oz/ton
	Wedge at 342.7			
	New hole at 310.0			
	310.0 as in above hole			
	322.0 bf carb as at 321.8 in above			
	hole	11681	322.0-324.5	
		11682	324.5-327.7	
		11683	327.7-328.8	
		11684	328.8-332.4	
		11685	332.4-333.4	
		11686	333.4-335.2	
		11687	335.2-339.0	
		11688	339.0-340.0	
	340.0 gradual change to gy X'talline	11689	340.0-341.0	
	cb, then to gy-gn cb at 341.0			
341.0-346.0	Cb sc, 60° to c.a., 30-40% gn chl			
346.0-367.0	Cg, bf carb and chert clasts in a			
	carb matrix			
	360.0-363.0 gn mica shards, bf carb			
	and chert clasts			
	363.0 gradual change in matrix			
	from gy-gn cb to Um.			
	3-5% py, 3" pk acid clast with			
	10-20% py	11690	345.6-347.0	N/A
367.0-447.0	Um, cg?, several narrow lamprophyre			
	dike, schisted 60° c.a., soft,			
	talcy, in places contains			
	bondinage clasts as in hole 80-1,			
	probably carb migration along			
	schistosity planes			
	372.0 gouge, mud			
447.0	End of hole			

Drilled by Heath & Sherwood Drilling, P.O. Box 998, Kirkland Lake, Ontario.
Core stored at Kenogami Lake, Ontario

DIAMOND DRILL RECORD

Hole No. 80-2B

Page No. 4

Footage From - To	Geological & Physical Description	Sample Number	From - To	Au oz/ton
			SLUDGES	
	Drilled by Heath & Sherwood Drilling		102-107	NIL
	P.O. Box 998		107-117	NIL
	Kirkland Lake, Ontario		117-127	NIL
			127-137	NIL
	Core stored at Kenogami Lake, Ontario		137-147	NIL
			147-157	NIL
			157-167	NIL
			167-177	NIL
			177-187	NIL
			187-197	NIL
			197-207	NIL
			207-217	NIL
			217-227	NIL
			227-237	NIL
			237-247	.002
			247-257	NIL
			257-267	NIL
			267-277	NIL
			277-287	.002
			287-297	NIL
			297-307	NIL
			307-317	NIL
			317-327	NIL
	417-427	NIL		
	427-437	.002		
			347-357	NIL
			357-367	.002
			367-377	.002
			377-387	.002
			387-397	NIL
			397-407	NIL
			407-417	.002

DIAMOND DRILL RECORD

Company..... Lenora Exploration Limited Hole No..... 80-3
 Location..... Larder Lake Date Started..... Jan. 12, 1981 Page No..... 1
 Level..... Surface Date Finished..... Jan. 16, 1981 Core Size..... NQ
 Bearing..... *Grid* North Logged..... *G.J. Hunt* G. Hinse Test - Acid Tropari
 Inclination..... -45° Core Saved Discarded Strike Dip
 Total Depth..... 81.0' Elevation..... 997 At
 Coordinates Collar - Lat..... Dep..... At

Footage From - To	Geological & Physical Description	Sample Number	From - To	Au oz/ton	
0.0- 12.0	Casing				
12.0- 47.8	Gn-gy carb sc, 60° to c.a. Avge 10-20% wh Q, chert and cb, 3-5% f. py. Locally up to 50-60% sericite				
		11690	12.0- 14.5	N.I	
		11691	14.5- 17.0	N.I	
		11692	17.0- 19.5	.002	
		11693	19.5- 22.0	.05	} 0.13 11.0 0.08 25.3
		11694	22.0- 24.5	.18	
		11695	24.5- 27.0	.16	
		11696	27.0- 30.5	.08	
		11697	30.5- 33.0	.11	
	30% wh Q-cb	11698	33.0- 36.2	.03	
		11699	36.2- 38.5	.05	
		11700	38.5- 42.0	.04	
		11701	42.0- 44.8	.05	
		11702	44.8- 47.8	.005	
	47.8 gradual change to mudstone then at 52, into gy-gn carb sc., top of cg	11703	47.8- 49.5	.01	
47.8- 81.0	Cg, chert clasts in a gy-gn carb matrix, at 62.0, chert clasts, gn mica shards. At 67.0 matrix grading into mostly Um with chert, minor iron form. clasts, green chl shards				No water return - No sludge assay.
81.0	End of hole				
	Drilled by Heath & Sherwood Drilling, P.O. Box 998, Kirkland Lake, Ontario				
	Core stored at Kenogami Lake, Ontario				

DIAMOND DRILL RECORD

Company..... Lenora Exploration Limited Hole No. 80-4
 Location..... Larder Lake Date Started..... Jan. 17, 1981 Page No. 1
 Level..... Surface Date Finished..... Jan. 19, 1981 Core Size..... NQ
 Bearing..... Logged..... *G. Hinse* Test - Acid Tropari
 Inclination..... 90° Core Saved Discarded Strike Dip
 Total Depth. 141.0' Elevation..... 997 At
 Coordinates Collar - Lat..... Dep..... At

Footage From - To	Geological & Physical Description	Sample Number	From - To	Au oz/ton
0.0- 13.0	Casing			
13.0- 21.0	Bf cb, 10-30% ser, 10-20% chert &	7706	13.0- 15.5	
	cb, 3-10% v. f. py, 30° to c.a.	7	15.5- 17.0	
		8	17.0- 19.5	
		9	19.5- 21.0	
21.0- 28.3	Cb, 10% ser, 30% gn chl, 10% chert,	7710	21.0- 24.0	
	1-3% v. f. py	1	24.0- 27.0	
	27.0-28.0 more than 50% volc.	2	27.0- 28.3	
	shards and clasts of bf cb and chert			
28.3- 33.2	Bf cb, 20% ser, 30-50% chert & cb	7713	28.3- 30.3	
	1-3%	4	30.3-33.2	
33.2- 37.0	Cb, 10-20% ser, 30-40% gn chl, 30-	5	33.2- 34.8	
	40% chert & cb, 1-3% py	6	34.8- 37.0	
37.0- 42.7	Bf cb, as above, 5-10% py	7717	37.0- 39.8	
		8	39.8- 42.7	
42.7- 44.0	Cb, 30-40% gn chl., 3-5% py	9	42.7- 44.0	
44.0- 47.0	Lost core			
47.0-106.0	Bf cb, 30-40% ser, 30% chert & cb,	7720	47.0- 50.0	
	3-5% py, 5-10% volc.	1	50.0- 53.0	
		2	53.0- 55.5	
	From 57.0 on, 10-30% volc., 1-3% py	3	55.5- 58.0	
		4	58.0- 60.5	
		5	60.5- 63.0	
		6	63.0- 65.5	
		7	65.5- 68.0	
		8	68.0- 70.5	
		9	70.5- 73.0	
		7730	73.0- 75.5	
		1	75.5- 78.0	
		2	78.0- 80.5	

DIAMOND DRILL RECORD

Hole No. 80-4

Page No. 2

Footage From - To	Geological & Physical Description	Sample Number	From - To	Au oz/ton
		7733	80.5- 83.0	
		4	83.0- 84.8	
	Md, 30-50% cb, 30° to c.a.	5	84.8- 85.2	
	Bf, 3-5% py	6	85.2- 88.0	
	* *	7	88.0- 90.5	
		8	90.5- 93.0	
		9	93.0- 95.5	
	95.5 gy bf cb, granular, less than	7740	95.5- 98.0	
	1% py	1	98.0-100.5	
	Mud slip at 87.0	2	100.5-103.0	
106.0-129.3	Bf cb, 30-50% ser, 20-50% chert, 1-	3	103.0-106.0	
	3% py	4	106.0-108.5	
		5	108.5-111.0	
		6	111.0-113.5	
		7	113.5-116.0	
		8	116.0-118.5	
		9	118.5-121.0	
		7750	121.0-123.5	
	Mud slip at 123.0	1	123.5-126.0	
		2	126.0-120.3	
129.3-135.0	Md, 70° cb, tr of py			
135.0-141.0	Gn cb, less than 10% chert, less	7753	135.0-138.0	
	than 1% py	4	138.0-141.0	
141.0	End of hole			
			SLUDGES	
	Drilled by Heath & Sherwood Drilling		17- 27	.05
	P.O. Box 998		27- 37	.02
	Kirkland Lake, Ontario		37- 47	.01
			47- 57	.002
	Core stored at Kenogami Lake, Ontario		57- 67	.002
			67- 77	.002
			77 87	.02
			87- 97	.02

DIAMOND DRILL RECORD

Company..... Lenora Exploration Limited Hole No..... 80-5
 Location..... Larder Lake Date Started..... Jan. 19, 1981 Page No..... 1
 Level..... Surface Date Finished..... Jan. 21, 1981 Core Size..... NQ
 Bearing..... N Logged *G.D. Hinse* G. Hinse Test - Acid Tropari
 Inclination..... -50° Core Saved Discarded Strike Dip
 Total Depth..... 297.0' Elevation..... 970 At 150' -49°
 At 297' -41°
 Coordinates Collar - Lat..... 427N Dep..... 413N At

Footage From - To	Geological & Physical Description	Sample Number	From - To	Au oz/ton
0.0- 48.0	Casing			
48.0- 70.3	Lamprophyre, lower ct 70° to c.a. 3-10% py locally			
70.3-107.4	Um, gy-bk, talcy, soft, weakly sh'd, 60° to c.a. Contains some narrow lamp. dikes			
107.4-109.6	Feldspar-porphyry, f. gr'd, 60-70% pk and wh F, 10-20% mica, 1% f. py			
109.6-121.0	Um, as above			
121.0-132.0	Cb, gradual change to bf cb at 132.0 with decrease in volc. and increase in ser.			
132.0-176.8	Bf cb, 40-50% ser, 20-40% chert & cb, 3-5% py	7755	131.7-134.7	
		6	134.7-137.0	
		7	137.0-139.0	
		8	139.0-141.5	
		7760	144.0-146.0	
		1	146.0-148.1	
		2	148.1-150.1	
		3	150.1-152.2	
		4	152.2-155.0	
	Cherty, 10% py	5	155.0-155.8	
		6	155.8-159.5	
		7	159.5-162.0	
		8	162.0-167.0	
		9	167.0-172.0	
		7770	172.0-176.8	
176.8-180.5	Cb, 40-50% gn chl, few clasts & shards towards 180.5			

DIAMOND DRILL RECORD

Hole No.....80-5.....

Page No.....2.....

Footage From - To	Geological & Physical Description	Sample Number	From - To	Au oz/ton
180.5-213.0	Bf cb, 30-40% ser, 3-5% py	7771	180.5-185.2	
		2	185.2-188.6	
		3	188.6-191.7	
		4	191.7-193.6	
		5	193.6-197.0	
	5-10% py	6	197.0-198.2	
	Mud seam at 195.0			
		7	198.2-203.0	
213.0-219.5	Md, 40-50% cb, 10% ser., granular, lineated 60° to c.a., tr py			
219.5-254.0	Cg., stretched clasts of gy cb, chert in a gn cb matrix At 242 matrix changing gradually to Ba at 252			
254.0-275.0	Contact zone, destroyed and disturbed by syenitization accom. by Q veining and several dikes			
275.0-297.0	Um 277 few mud slips			
297.0	End of hole			
			SLUDGES	
	Drilled by Heath & Sherwood Drilling		48- 57	.002
	P.O. Box 998		57- 67	NIL
	Kirkland Lake, Ontario		67- 77	NIL
			77- 87	NIL
	Core stored at Kenogame Lake, Ontario		87- 97	NIL
			97-107	.002
			107-117	NIL
			117-127	.002
			127-137	.002
			137-147	.002
			147-157	NIL
			157-167	.002

DIAMOND DRILL RECORD

Company..... Lenora Exploration Limited..... Hole No... 80-6.....
 Location..... Larder Lake..... Date Started... Jan. 21, 1981..... Page No..... 1.....
 Level..... Surface..... Date Finished... Jan. 25, 1981..... Core Size... NQ.....
 Bearing..... N47°E..... Logged *G. J. Hinse* G. Hinse..... Test - Acid Tropari
 Inclination... -45°..... Core Saved Discarded Strike Dip
 Total Depth... 286.0'..... Elevation... 968..... At ... 150'..... -41°
 Coordinates Collar - Lat..... 250W..... Dep..... 360N..... At

Footage From - To	Geological & Physical Description	Sample Number	From - To	Au oz/ton
0.0- 20.0	Casing			
20.0- 25.8	Cb, muddy, 20% ser, up to 10% py	7778	20.0- 22.2	
		9	22.2- 23.4	
		7780	23.4- 25.8	
25.8- 57.5	Bf cb, 40% ser, 30-40% chert & cb,	1	25.8- 28.0	
	3-5% py, lin'd 60° to c.a.	2	28.0- 30.0	
		3	30.0- 32.2	
		4	32.2- 35.0	
		5	35.0- 37.0	
		6	37.0- 40.5	
		7	40.5- 43.9	
		8	43.9- 46.2	
		9	46.2- 49.4	
		7790	49.4- 51.6	
		1	51.6- 55.4	
		2	55.4- 57.5	
57.5- 58.0	Md, 70-80% cb, 10% ser			
58.0-116.0	Cg, mostly stretched chert and Q			
	clasts, minor cb clasts in a cb-			
	volc matrix, grading into a volc			
	matrix at 77. At 97 on, volc.			
	shards.			
	113.5 top towards collar, base of			
	above unit.			
116.0-144.0	Mass Flow tuff, 30% cb, 30% volc,			
	20-30% chert. Good tops, all			
	towards collar			
144.0-164.0	Bf cb, 30-40% ser, 30-40% chert &			
	cb, 1-2% py			

DIAMOND DRILL RECORD

Hole No. 80-6

Page No. 2

Footage From - To	Geological & Physical Description	Sample Number	From - To	Au oz/ton
		7793	144.0-146.5	
		4	146.5-148.5	
	3" cb tf @ 148.5			
		5	148.5-151.1	
		6	151.1-153.0	
	6" cb tf @ 153.0			
		7	153.0-155.0	
		8	155.0-158.0	
	158.0 base			
	30-50% chert, 3-5% py	9	158.0-159.3	
	Shards & clasts	7800	159.3-160.6	
	10-20% py, 30-50% chert & Q	1	160.6-162.5	
	70% chert, 1-2% f. py	2	162.5-164.00	
	162.7 3" shards			
164.0-195.0	Cg., shards and clasts in a Ba matrix			
	182.0 muddy matrix with grey cb clasts, 10% ser.			
195.0-247.0	Sections of bf cb M-F Tf with cherty tops, shards at base. At 211 top facing downhole?			
	60% Q, chert & cb, 1% py	7803	206.0-209.3	
	30% Q, chert & cb, 1% py	4	212.2-214.5	
	20% Q, chert & cb, 1% py	• 5	215.5-217.0	
	1% py	6	226.2-228.1	
	40% chert, 20% py	7	228.1-229.3	
	229.3 bf cb grading to a muddy matrix at 242.0 with shards of volc., grading into an Um at 247			
247.0-286.0	Um, sev. short <i>Qmp.</i> and locally syenitized, possibly a tuff, last 3', cgl with a Ba matrix			

DIAMOND DRILL RECORD

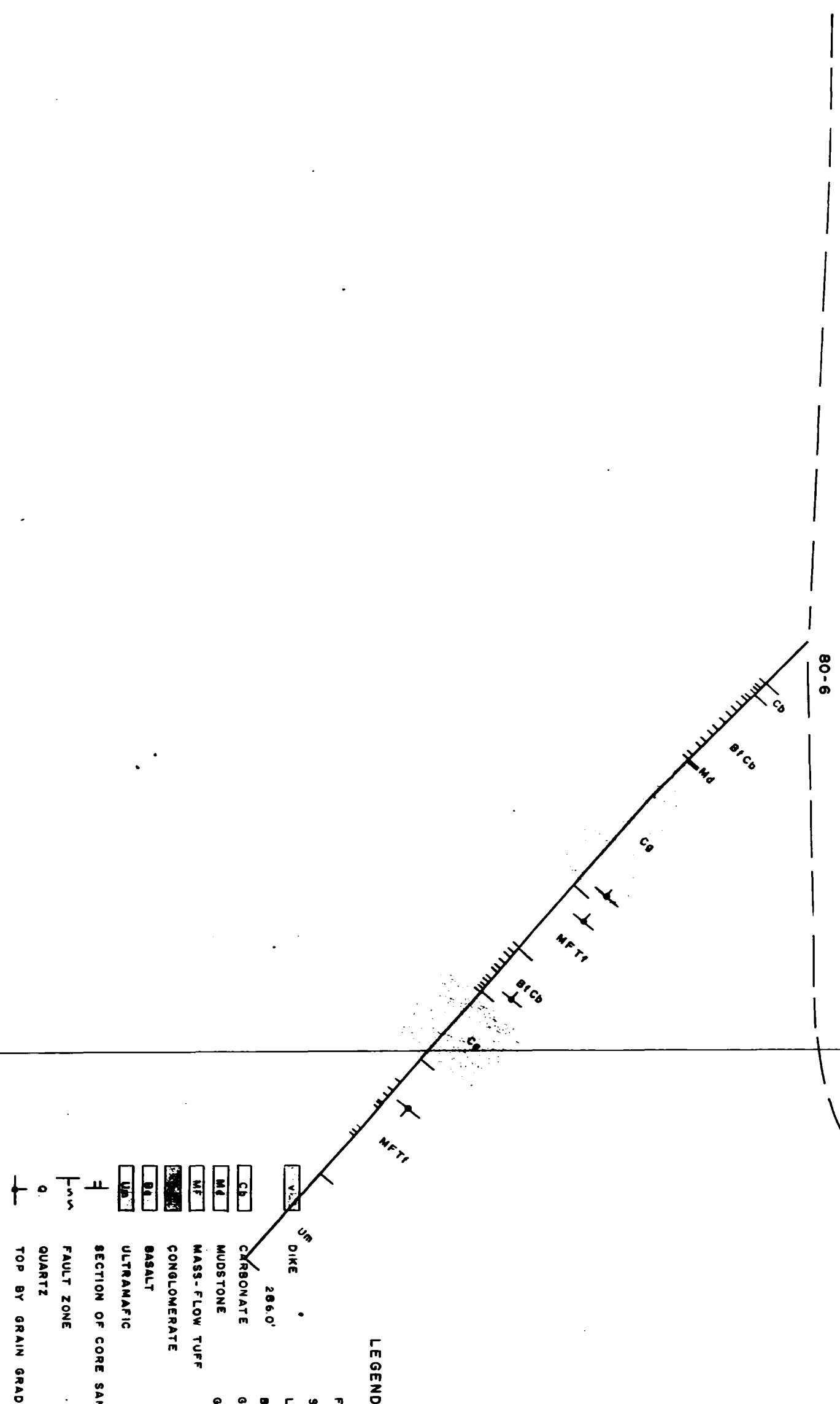
Hole No. 80-6

Page No. 3

Footage From - To	Geological & Physical Description	Sample Number	From - To	Au oz/ton
286.0	End of hole			
	Drilled by Heath & Sherwood Drilling		SLUDGES	
	P.O. Box 998		18- 27	NIL
	Kirkland Lake, Ontario		27- 37	NIL
			37- 47	NIL
	Core stored at Kenogami Lake, Ontario		47- 57	.002
			57- 67	.002
			67- 77	NIL
			77- 87	.002
			87- 97	.002
			97-107	nil
			107-117	NIL
			117-127	NIL
			127-137	NIL
			137-147	NIL
			147-157	NIL
			157-167	NIL
			167-177	NIL
			177-187	NIL
			187-197	.002
			197-207	.01
			207-217	.01
			227-237	.002
			227-237	.005
			237-247	.002
			247-257	.002
			257-267	.002
			267-277	.005
			277-287	.002

63.3818

1000'



LEGEND

- FP Feldspar-porphyr
- SY Syenite
- Ld Lamprophyre
- Bl Buff
- Gy Grey
- Gn Green
- UB Ultrabasic
- Basalt
- Conglomerate
- Mass-flow tuff
- Mudstone
- Carbonate
- 286.0'
- Dike
- Section of core sampled
- Fault zone
- Quartz
- Top by grain gradation

G.J. HINE GEOLOGICAL SERVICES LIMITED

VERTICAL DRILL SECTION LOOKING WEST

FOR

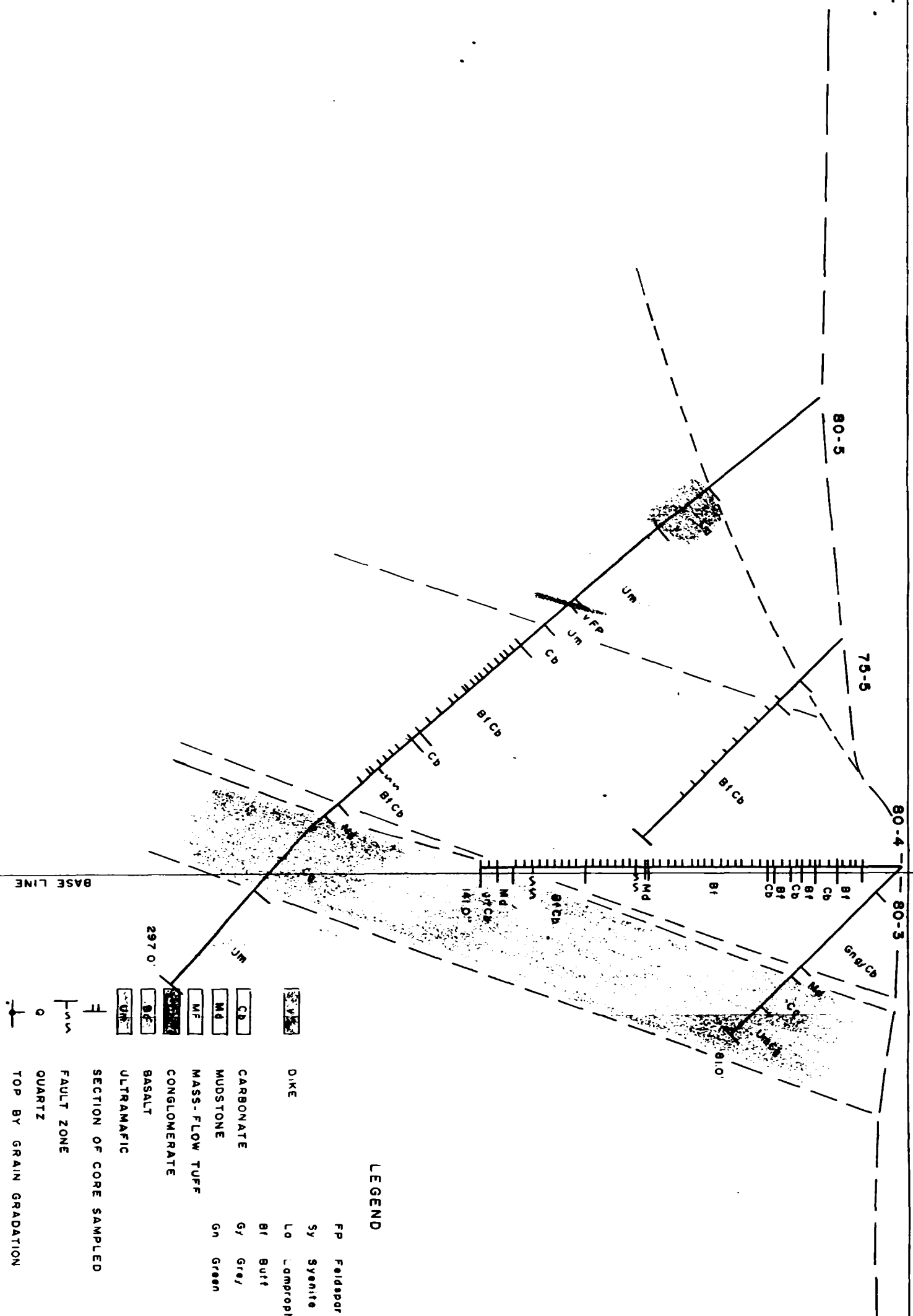
LENORA EXPLORATION LIMITED

HOLE 80-6

MCVITTIE TWP.
SCALE: 1" = 40'

ONTARIO
FEB. 1981

G. J. Hine



LEGEND

- FP Feldspar-porphry
- Sy Syenite
- Lo Amphophyre
- Cb Carbonate
- Md Mudstone
- Mf Mass-flow tuff
- Cg Conglomerate
- Ba Basalt
- Uf Ultramafic
- F SECTION OF CORE SAMPLED
- Fz FAULT ZONE
- Q QUARTZ
- T TOP BY GRAIN GRADATION

G.J. HINSE GEOLOGICAL SERVICES, LIMITED.

VERTICAL DRILL SECTION LOOKING WEST

FOR

LENORA EXPLORATION LIMITED

HOLES 75-5, 80-3, 80-4, 80-5

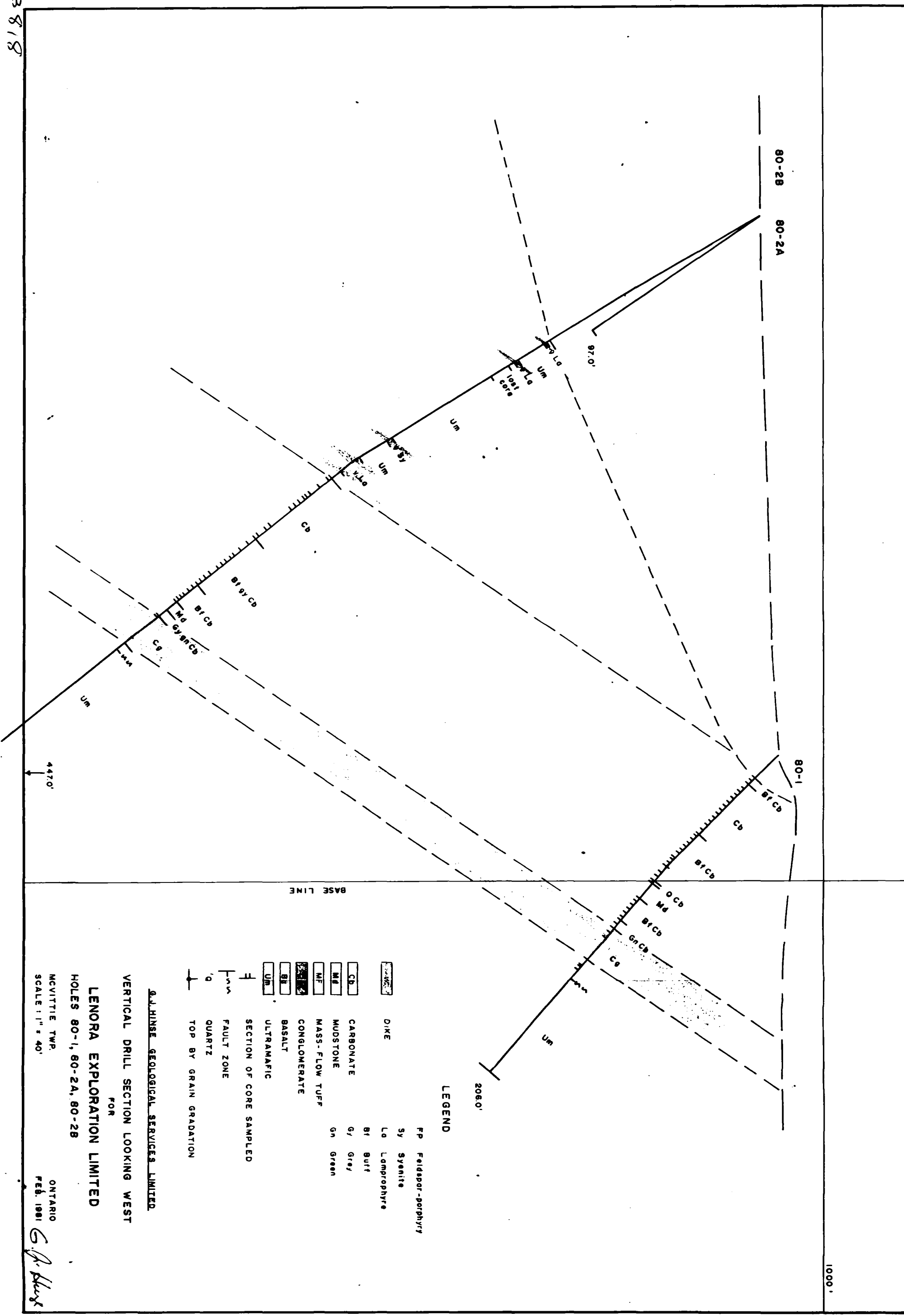
MCVITTIE TWP.

SCALE: 1" = 40'

ONTARIO
FEB. 1981
G.J. Hinse

63.3818

63-3818



1000'

LEGEND

- FP Feldspar-porphyr
- Sy Syenite
- Ld Lamprophyre
- Bl Bult
- Gj Grey
- Gn Green
- DIKE
- CB CARBONATE
- MD MUDSTONE
- MF MASS-FLOW TUFF
- CONGLOMERATE
- BASALT
- ULTRAMAFIC
- SECTION OF CORE SAMPLED
- FAULT ZONE
- QUARTZ
- TOP BY GRAIN GRADATION

G.L.HINSE GEOLOGICAL SERVICES LIMITED

VERTICAL DRILL SECTION LOOKING WEST

FOR

LENORA EXPLORATION LIMITED

HOLES 80-1, 80-2A, 80-2B

MCVITTIE TWP.
SCALE 1" = 40'

ONTARIO
FEB. 1981

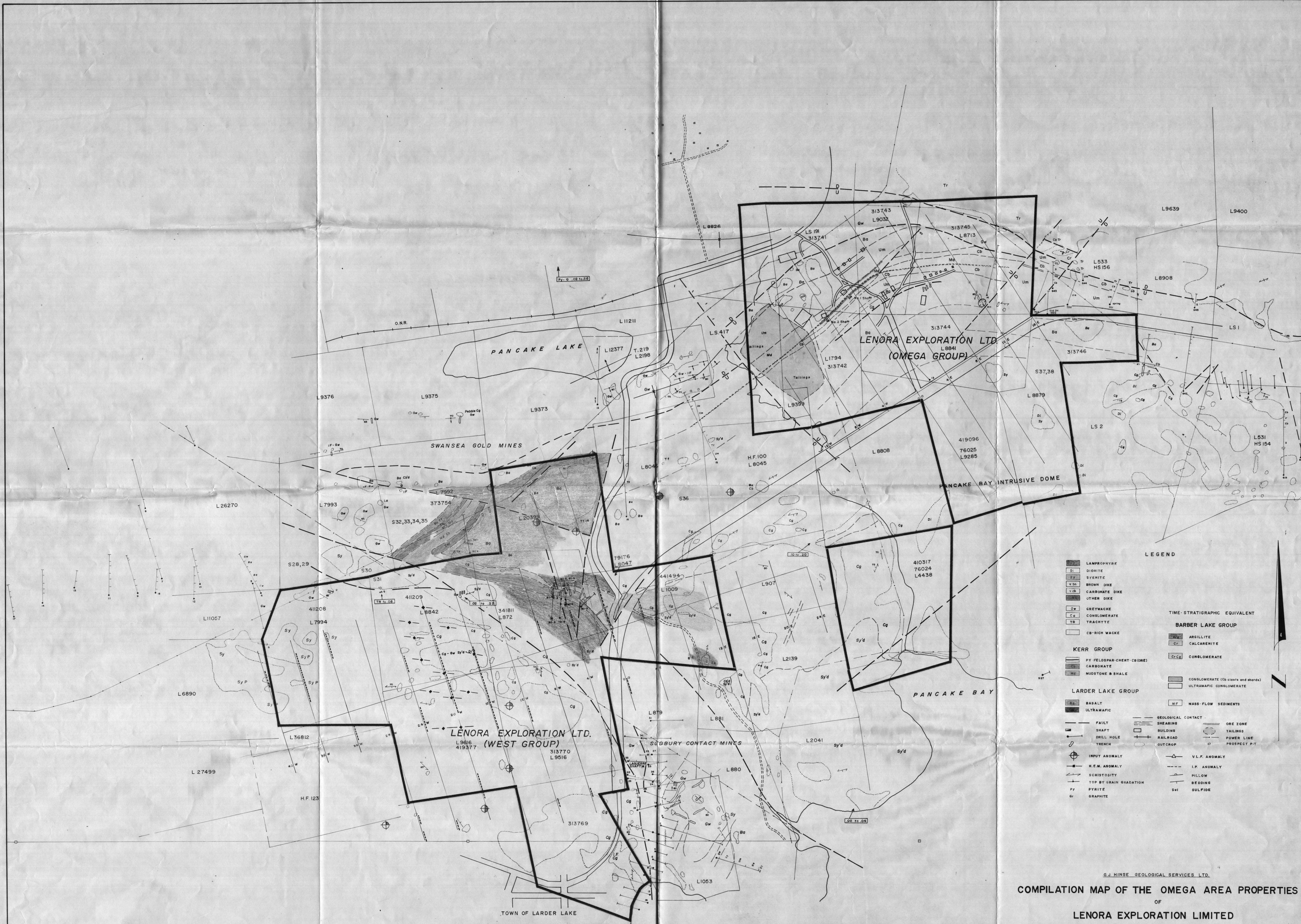
G. J. Harg



32004SE0039 63.3818 MCVITTIE

900

NOTE: REVISED VERSIONS OF
THESE LOGS CAN BE VIEWED
IN FILE 63.3968.



LEGEND

	LAMPROPHYRE		DIKE
	DIKE		BROWN DIKE
	CARBONATE DIKE		OTHER DIKE
	GREYWACKE		CONGLOMERATE
	TRACHYTE		CB-RICH WACKE
	PYROCLASTIC (CHERT-CONGL.)		CONGLOMERATE (Cb clasts and shards)
	CARBONATE		ULTRAMAFIC CONGLOMERATE
	MUDSTONE & SHALE		MASS-FLOW SEDIMENTS
	BASALT		GEOLOGICAL CONTACT
	ULTRAMAFIC		SHAFT
	FAULT		DRILL HOLE
	SHEARINGS		TRENCH
	SHAFT		OUTCROP
	DRILL HOLE		ORE ZONE
	TRENCH		TAILINGS
	OUTCROP		POWER LINE
	INPUT ANOMALY		PROSPECT PT.
	H.E.M. ANOMALY		V.L.F. ANOMALY
	SCHISTOSITY		I.P. ANOMALY
	TOP BY GRAIN GRADATION		PILLOW
	PYRITE		BEDDING
	GRAPHITE		SULFIDE

G.J. HINSE GEOLOGICAL SERVICES LTD.
COMPILATION MAP OF THE OMEGA AREA PROPERTIES
 OF
LENORA EXPLORATION LIMITED
 IN
 MCVITTIE TOWNSHIP, ONTARIO
 SCALE 1" = 400' DEC. 1980

G.J. Hinse, Feb. 1981





DDH 80-1 (40')
 75-2a (45')
 005/64'
 01/50'
 02/50'
 03/50'
 04/50'
 05/50'
 06/50'
 07/50'

DDH 80-2 (50')
 75-3 (45')
 005/64'
 01/50'
 02/50'
 03/50'
 04/50'
 05/50'
 06/50'
 07/50'

LENOVA EXPLORATION

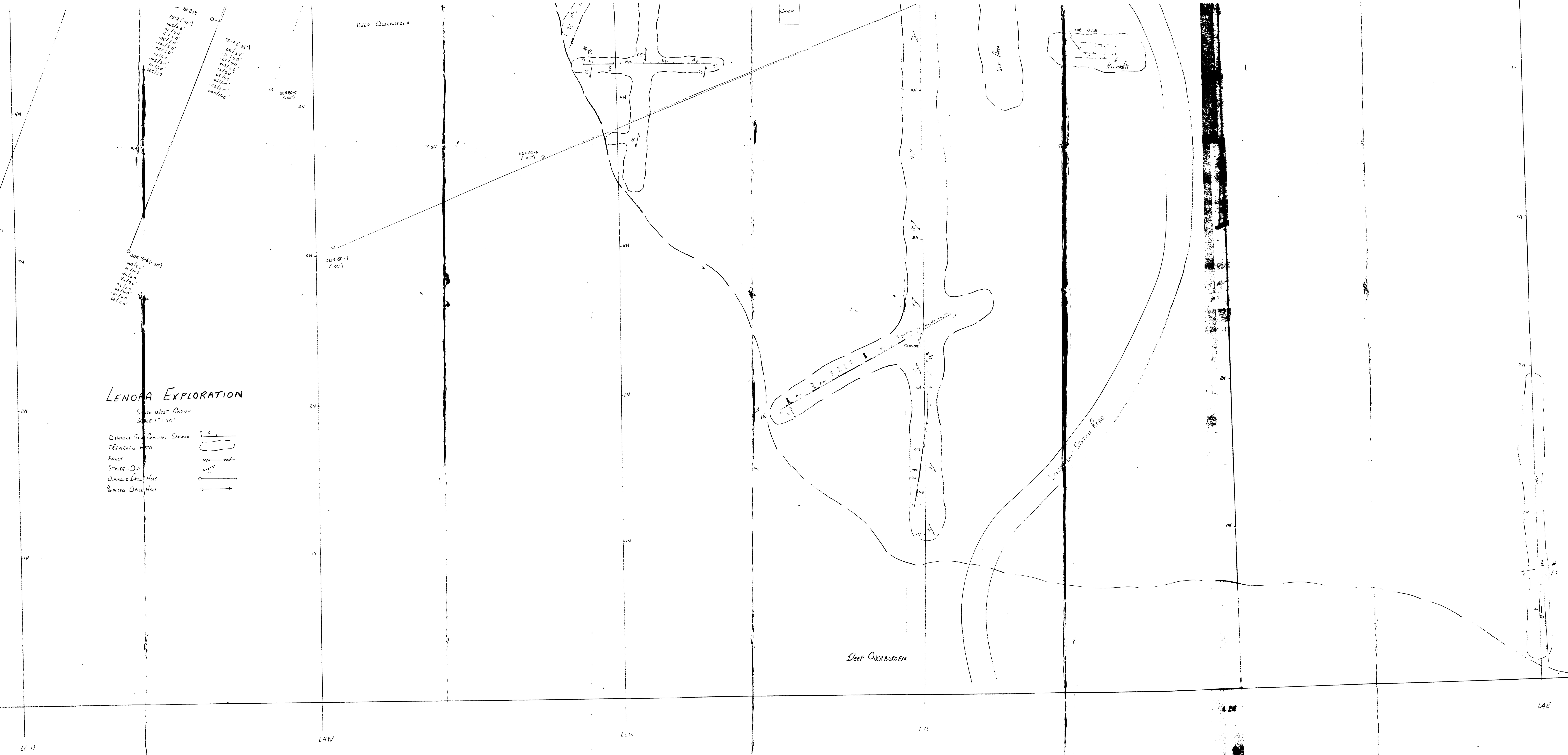
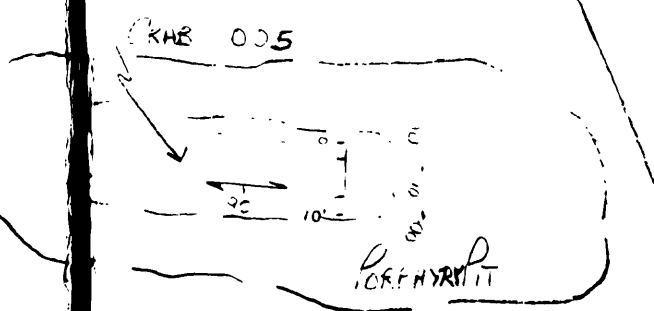
South West Group
 SCALE 1" = 200'

DIAMOND DRILL CHANGES SAMPLES
 TRENCHES AREA
 FAULT
 STRIKE-DIP
 DIAMOND DRILL HOLE
 PARCELED DRILL HOLE

DEEP OVERBURDEN

CENO

Str. Area



DEEP OVERBURDEN

LINEAR STRIP ROAD

