

021157

NORTHLAKE MINES LIMITED

Watson Lake M.D.

105-G-6

Drill Hole Logs N-1 to N-4, 1967

Four holes totalling 1,064 feet in length were drilled on the EL grid on claims EL 48, 80, & 82 by Arsenault Diamond Drilling Ltd. between July 16 and August 10, 1967.

D.D. N-1 gave the best intersection, averaging 0.2 oz/T Ag 0.6% Pb 0.6% Zn for 37 feet.

D.D. N-3 intersected 7 feet of material assaying 0.16 oz/T Ag 0.30% Pb 0.24% Zn.

D.D. N-2 and N-4 did not intersect mineralization.

Program

<u>Hole No.</u>	<u>Section</u>	<u>Length</u>	<u>Dip</u>	<u>Location</u>	<u>Bearing</u>	<u>Elev.</u>
N-1	4400 E	300'	-60°	4395' E 100 N	S 29° E	4350'
N-2	4000 E	391'	-60°	3990' E 310' N	S 29° E	4437'
N-3	4000 E	173'	-48°	3990' E 100' N	S 29° E	4382'
N-4	4000 E	200'	-60°	3990' E 105' N	N 29° W	4382'

Significant Intersections

<u>Hole No.</u>	<u>Footage</u>	<u>Est. True Width</u>	<u>oz/T Ag</u>	<u>%Pb</u>	<u>%Zn</u>	<u>%Cu</u>
N-1	0-20'	(overburden)				
	20-26'	4'	0.32	0.74	0.36	
	26-32'	4'	0.08	0.36	0.19	
	32-38'	4'	0.06	0.48	0.19	
	38-44'	4'	0.28	0.82	2.49	*Tr
	44-50'	4'	0.18	0.42	0.24	
	50-57'	5'	0.14	0.95	0.29	
Ave.	20-57'	28'	0.2	0.6	0.6	
N-3	75-82'	6'	0.16	0.30	0.24	

Assays are by Coast Kidridge, Vancouver, except * assay by G. Spalding, Whitehorse. The original Pb assays for N-1 were considered incompatible with visual estimates, and the samples were re-assayed. Re-assay gave Ag & Zn results comparable to the earlier assay, and Pb results were consistent with estimates. Only the re-assay values are shown.

Respectfully submitted,

R. G. Gifford

R. G. Gifford

September 30, 1967.

Re: Core Storage

- D.D. N-1 Core located on claim EL 78 at camp.
- D.D. N-2 Core located on claim EL 48 at drill site.
- D.D. N-3
& DD N-4 Core located on claim EL 82 at drill site.

CANADA) STATUTORY DECLARATION RELATING TO EXPENDITURES
) ON GEOLOGICAL AND GEOCHEMICAL SURVEYS, DIAMOND
) DRILLING, LINE CUTTING, AND ROAD CONSTRUCTION
YUKON TERRITORY) ON CERTAIN MINERAL CLAIMS LOCATED IN THE
) WATSON LAKE MINING DIVISION

I, ROBERT GORDON GIFFORD, Professional Engineer of the City
of Rossland, in the Province of British Columbia, DO SOLEMNLY DECLARE:

1. That I am the person who prepared a geological and geochemical report as a result of surveys carried out on certain mineral claims by Northlake Mines Ltd.
2. That copies of the said report are being filed with the Mining Recorder at Watson Lake, Y. T.
3. That attached hereto and marked with a letter "A" upon which I have signed my name at the time of declaring hereof, is a statement of expenditures incurred in connection with the geological and geochemical survey of the said claims.

AND I MAKE this solemn declaration conscientiously believing it to be true and knowing it is the same force and effect as if made under oath and by virtue of the Canada Evidence Act.

DECLARED before me at the)
City of Vancouver, in the)
Province of British Columbia)
this 23 day of January)
, A.D. 1968)

M. L. Du... ..

A Notary Public in and for the
Province of British Columbia

Robert Gifford

1967 EXPLORATION EXPENDITURES
Hoo, EL, Leo, and Z MINERAL CLAIMS
WATSON LAKE M.D.

Distribution of Costs per Northlake Mines Ltd. Statement of Expenditures
as at November 30, 1967

SUPPORT EXPENSES

Transportation: Aircraft Rental	\$ 8,338.50
Equipment Rental	15,757.56
Camp Operation	<u>19,390.23</u>
TOTAL	<u>\$43,486.29</u>

GEOLOGICAL/GEOCHEMICAL EXPENSES

Consultants Fees	\$21,884.32
Geological	12,421.72
Geochemical	<u>3,522.29</u>
	\$37,828.33
Pro-rated Support Cost @47%	<u>20,400.00</u>
TOTAL	<u>\$58,228.33</u>

ROAD BUILDING EXPENSES

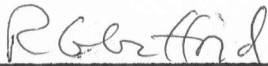
Road Building	\$17,876.69
Pro-rated Support Cost @13%	<u>5,650.00</u>
TOTAL	<u>\$23,526.69</u>

LINE CUTTING EXPENSES

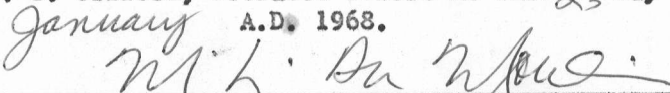
Line Cutting	\$ 2,316.26
Pro-rated Support Cost @6%	<u>2,610.00</u>
TOTAL	<u>\$ 4,926.26</u>

DRILLING EXPENSES

Diamond Drilling (1,064')	\$15,017.59
Pro-rated Support Cost @13%	<u>5,650.00</u>
TOTAL	<u>\$20,667.59</u> (i.e. \$20/ft.)


R. G. Gifford, P. Eng.

This is Exhibit "A" to the Statutory Declaration of
R. G. Gifford, declared before me this 23 day of
January A.D. 1968.


A Commissioner for taking Affidavits

A Notary Public in and for the
Province of L. Columbia

NORTELAKE MINES LIMITED

STATEMENT OF EXPLORATION AND DEVELOPMENT EXPENDITURES
AS AT NOVEMBER 30, 1967

	<u>November 1967</u>	<u>January 1 to October 31</u>	<u>Total 1967</u>
Management Fees & Expenses		3,108.26	3,108.26
Consultants Fees & Expenses	1,421.32	20,463.00	21,884.32
Engineering, Geological Salaries & Expenses	408.93	12,012.79	12,421.72
Aircraft Rental		8,338.50	8,338.50
Diamond Drilling		15,017.59	15,017.59
Surveying, Geophysical & Geochemical		3,522.29	3,522.29
Camp Operating & Transportation	34.00	19,356.23	19,390.23
Line cuttingq		2,316.26	2,316.26
Road Building		17,876.69	17,876.69
Claim Staking		6,950.09	6,950.09
Assessment Work		3,722.50	3,722.50
Prospecting & Trenching		6,346.23	6,346.23
Equipment Rental		15,757.56	15,757.56
Administration & general	489.41	6,447.52	6,936.93
Legal & audit		8,151.12	8,151.12
	<u>2,353.66</u>	<u>149,386.63</u>	<u>151,740.29</u>
<u>Less:</u> Road Refund	-	8,000.00	8,000.00
Sundry Revenue	705.44	<u>1,710.57</u>	<u>2,416.01</u>
	<u>1,648.22</u>	<u>139,676.06</u>	<u>141,324.28</u>
Balance at December 31, 1966			<u>272,166.81</u>
Balance at November 30, 1967			<u><u>413,491.09</u></u>

December 12, 1967

DIAMOND DRILL RECORD

PROPERTY NORHLAKE MINES LTD.

HOLE No. N-1

DIP TEST		
	Angle	
Footage	Reading	Corrected
collar	-60°	

Hole No. N-1 Sheet No. 1 Lat. 0+00 N (Base line) Total Depth 300'
 Section 4400 E Dep. 4395 E Logged By R. Gifford
 Date Begun July 16, 1967 Bearing S 29 E Claim EL 80, Area 17
 Date Finished July 20, 1967 Elev. Collar 4350 Core Size AQ (1")

Drilled by Arsenault D.D. Ltd.

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	oz/T Ag	%Pb	%Zn	%Cu
	SUMMARY OF INTERSECTIONS:						
	20-57 (37') 0.2 Ag. 0.6 Pb 0.6 Zn						
0 - 20'	OVERBURDEN						
20 - 147'	MINERALIZED FELDSPAR AUGEN SCHIST: distinctive texture exhibiting coarse feldspar augens floating in schistose sericitic matrix; olive green; 50-80% feldspar (subordinate quartz), 20-50% sericite (subordinate chlorite); foliation 50-75°						
	MINERALIZATION: weak galena with subordinate sphalerite in discontinuous sixteenth to half inch bands subparallel to foliation; associated minor pyrite, pyrrhotite & silica						
	20-38' weak PbS; estimate tot. sulfide 0.5%	2251	20-26'	0.32	0.74	0.36	
	38-44' better PbS, fair ZnS; estimate tot. sulfide 3%	2252	26-32'	0.08	0.36	0.19	
	44-57' weak PbS, minor ZnS; estimate tot. sulfide 0.5%	2253	32-38'	0.06	0.48	0.19	
	57-147 feeble PbS, sampling not warranted; estimate total sulfide 0.1%	2254	38-44'	0.28	0.82	2.49	*Tr
		2255	44-50'	0.18	0.42	0.24	
		2256	50-57'	0.14	0.95	0.29	
		2257	57-63'	0.06	0.38	0.05	
		All assays by Coast Eldridge, Vancouver. Except as noted* assay by G. Spalding, Whitehorse					

DIAMOND DRILL RECORD

 PROPERTY NORHLAKE MINES LTD.

 HOLE No. N-1

DIP TEST		
Footage collar	Angle	
	Reading	Corrected
	-60°	

Hole No. <u>N-1</u>	Sheet No. <u>2</u>	Lat. <u>0+00 N</u>	Total Depth. <u>300'</u>
Section <u>4400 E</u>	Dep. <u>43 + 95 N</u>	Logged By <u>R. Gifford</u>	
Date Begun <u>July 16, 1967</u>	Bearing <u>S 29 E</u>	Claim <u>EL 80, Area 17</u>	
Date Finished <u>July 20, 1967</u>	Elev. Collar. <u>4350</u>	Core Size <u>AQ (1")</u>	

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE			
147 - 197'	GRAPHITIC SCHIST: black with grey mottling, basal 5' limey; minor pyrite, Foliation variable, approx. 75°, strong cleavage 30-40° crosscutting foliation. Minor quartz seams 20-40° crosscutting cleavage.					
197 - 205'	FELDSPAR AUGEN SCHIST: similar to unit 20-147' but less feldspar; roughly 10-20% feldspar (quartz) 80-90% sericite, 1-2% pyrite(pyrrhotite), Foliation obscure; lower contact 50°					
205 - 227'	GRAPHITIC SCHIST: similar to unit 147-197'; argillaceous fragments(light grey), weakly calcareous, minor pyrite Strong cleavage 70° variously crossing & paralleling bedding; bedding highly crumpled. 6" quartz(calcite) vein 70° @222' parallels cleavage.					
227 - 234'	FELDSPAR AUGEN SCHIST: similar to unit 197-205' but slightly greater feldspar; roughly 30-50% feldspar (quartz) 50-70% sericite, minor pyrite(pyrrhotite). Foliation 80°					
234 - 300'	GRAPHITIC SCHIST: similar to unit 205-227'; limey 280-300' with 10-30% dark grey limestone bands 1/8" -2" thick; minor pyrite (pyrrhotite) Frequent quartz (calcite) veins 1" - 6" thick @ 247-300					

DIAMOND DRILL RECORD

PROPERTY NORTHLAKE MINES LTD.

HOLE No. N-2

DIP TEST		
Footage	Angle	
	Reading	Corrected
collar	-60°	

Hole No. N-2 Sheet No. 1 Lat. 310 N Total Depth 391'
 Section 4000 E Dep. 3990 E Logged By N. Lockwood
 Date Begun July 26, 1967 Bearing S 29 E Claim E1 48, Area 17
 Date Finished August 1, 1967 Elev. Collar 4437 Core Size AQ (1")

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
	NO INTERSECTIONS						
0-15'	OVERBURDEN						
15-20'	FELDSPAR AUGEN SCHIST: light green; interlayered feldspar-quartz 75% sericite 20%, calcite-dolomite 5% minor pyrite; rusty @ 15-29'. Foliation 50-60°; quartz vein (6") @ 48'. Core recovery 70%						
50-57'	GRAPHITIC SCHIST: medium to dark gray, highly folded; minor quartz. Foliation 60°. Core recovery 30%						
57-118'	FELDSPAR AUGEN SCHIST: similar to unit 15-20'; boudin structures, argillite fragments; minor pyrite & carbone; occasional quartz veinlet parallel to foliation Foliation 20-40°. Core recovery 5% @ 57-67'						
118-241'	GRAPHITIC SCHIST: similar to unit 50-57'; occasional quartz veinlets, some of which parallel to foliation; siliceous @ 143-162', 191-200' light grey chert @ 167-171'; carbonate @ 118-123'; minor quartz veins; minor pyrite; foliation 50-70° Core recovery 60% @ 125-132'; caving @ 128'; lost water @ 199'						
241-248'	FELDSPAR AUGEN SCHIST: similar to unit 15-20'; minor chlorite, graphite; foliation 80°						

DIAMOND DRILL RECORD

PROPERTY NORTHLAKE MINES LTD.

HOLE No. N-3

DIP TEST		
Footage	Angle	
	Reading	Corrected
collar	-45°	

Hole No. N-3 Sheet No. 1 Lat. 100 N Total Depth 173'
 Section 4000 E Dep. 3990 E Logged By N. Lockwood
 Date Begun August 3, 1967 Bearing S 29 E Claim EL 82, Area 17
 Date Finished August 7, 1967 Elev. Collar 4382' Core Size AQ (1")

Drilled by Arsenault D. D. Ltd.

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	oz/T Ag	%Pb	%Zn
	SUMMARY OF INTERSECTIONS					
	75-82'(7') 0.16 Ag 0.30 Pb 0.24 Zn					
0-24'	OVERBURDEN					
24-82'	FELDSPAR AUGEN SCHIST: olive green, coarse texture; feldspar-quartz, 50-80%, sericite 20-50%; minor pyrite; foliation 50-60°					
75-82'	MINERALIZATION: weak galena in discontinuous 1/16"-1/8" bands subparallel to foliation; estimate Tr, Pb Core recovery 20% @24-38', 80% @38-45' 50% @ 45-51'	2261	75-82'	0.16	0.30	0.24
		All assays by Coast Eldridge Vancouver				
82-111'	GRAPHITIC SCHIST: gray to black; crumpled; foliation 80-90°; minor quartz veinlets; core recovery 30% @ 107-111'					
111-114'	CHLORITIC ARGILLITE: light green; silica 40-60% chlorite 40%, talc 10%; strong foliation 40-50°					
114-135'	GRAPHITIC SCHIST: similar to unit 82-111'; argillite fragments; foliation 40-50°; core recovery 80% @ 114-130', 40% @ 130-135'					
135-138'	TALC SCHIST: light green; crumpled; foliation 70-80°; core recovery 40% @ 135-138'					

DIAMOND DRILL RECORD

PROPERTY NORHLAKE MINES LTD.

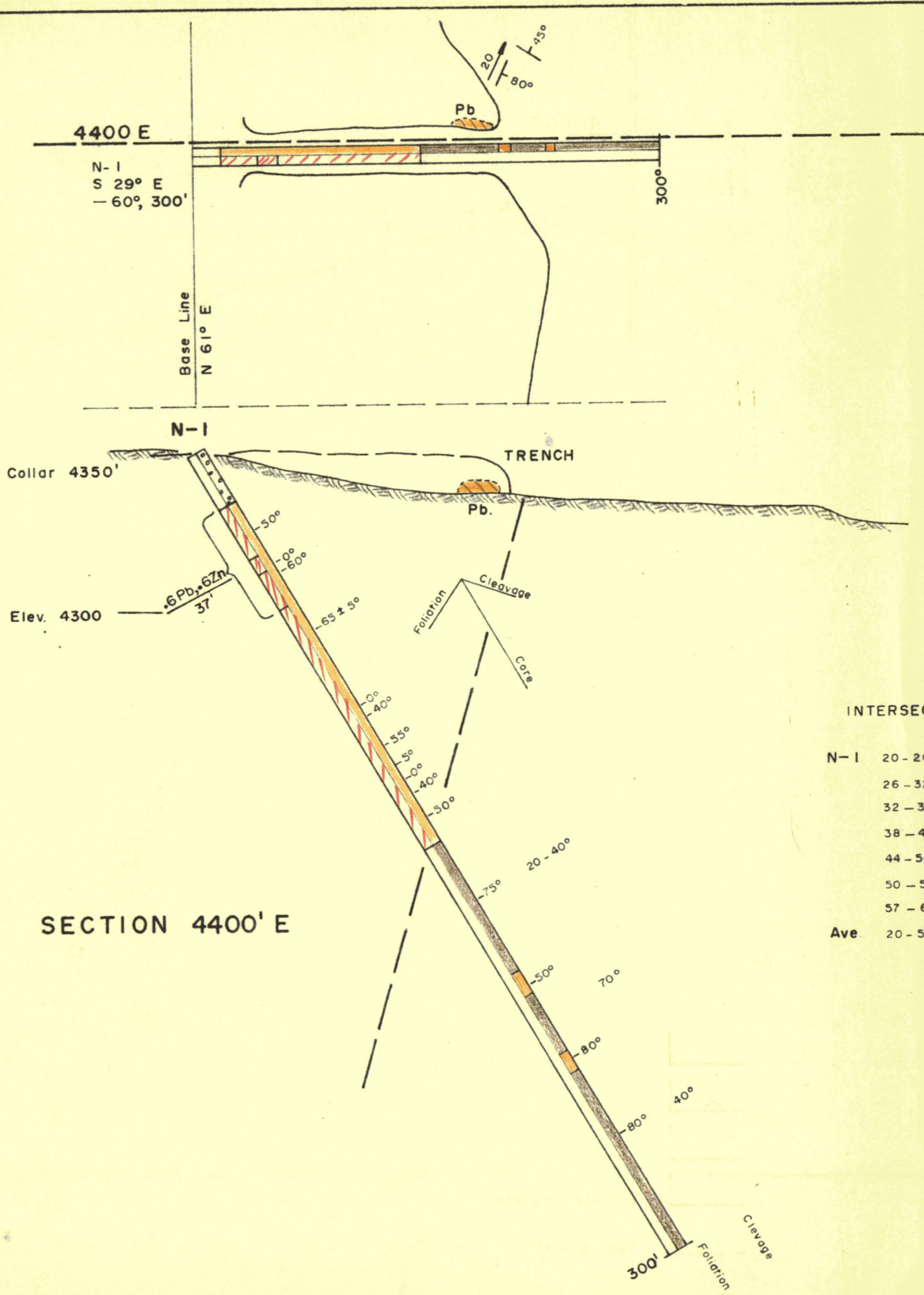
HOLE No. N-4

DIP TEST		
Footage	Angle	
	Reading	Corrected
collar	-60°	

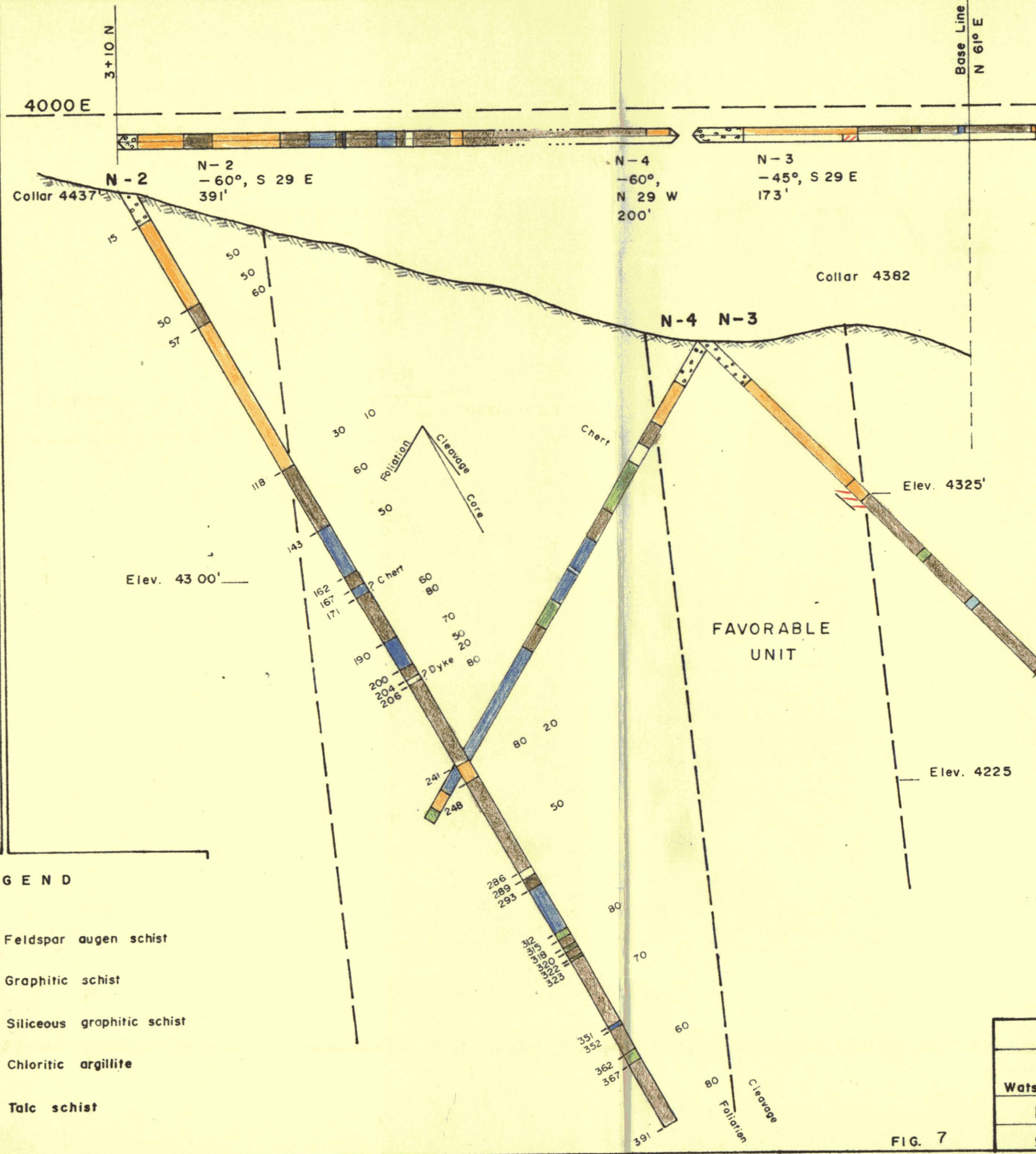
Hole No. N-4 Sheet No. 1 Lat. 105 N Total Depth 200'
 Section 4000 E Dep. 3990 E Logged By N. Lockwood
 Date Begun August 8, 1967 Bearing N 29 W Claim EL 82, Area 17
 Date Finished August 10, 1967 Elev. Collar 4382' Core Size AQ (1")

Drilled by Arsenault D.D.Ltd.

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE			
	NO INTERSECTIONS					
0 - 16'	OVERBURDEN					
16 - 34'	FELDSPAR AUGEN SCHIST: highly weathered, rusty; pyritic; foliation 80°; core recovery 30%					
34 - 42'	GRAPHITIC SCHIST: interbeds of feldspar augen schist; foliation 70°; core recovery 20%					
42 - 50'	CHERT: light grey; argillite fragments; fractures 10-20° core recovery 75%					
50 - 70'	CHLORITIC ARGILLITE: dark green; 60% chlorite, 40% silica; foliation 60-70°; core recovery 75%					
70 - 97'	GRAPHITIC SCHIST: siliceous 82-97'; foliation 70-80°; core recovery 75% @ 82-97'					
97 - 100'	CHLORITIC ARGILLITE: medium green; highly pyritic @ 97'; foliation 70-80°; core recovery 70%					
100 - 119'	GRAPHITIC SCHIST: siliceous 100-108'; foliation 60-70° core recovery 80% @ 100-108'					
119 - 129'	CHLORITIC ARGILLITE: Medium green; chloritic material 60%, quartz 40%; pyritic in sections; foliation 60-70° core recovery 80%					



SECTION 4400' E



SECTION 4000' E

INTERSECTIONS (Eldridge Assay)

	Ag	Pb	Zn	Cu
N-1 20-26 (6')	0.32	0.74	0.36	
26-32 (6')	0.8	0.36	0.19	
32-38 (6')	0.6	0.48	0.19	
38-44 (6')	0.28	0.82	2.49	Tr
44-50 (6')	0.18	0.42	0.24	
50-57 (7')	0.14	0.95	0.29	
57-63 (6')	0.06	0.38	0.05	
Ave 20-57 (37')	0.18	0.63	0.63	

INTERSECTIONS

	Ag	Pb	Zn
N-2	Nil		
N-3	75-82' (7')	0.16	0.30 0.2
N-4	Nil		

- LEGEND
- Feldspar augen schist
 - Graphitic schist
 - Siliceous graphitic schist
 - Chloritic argillite
 - Talc schist

R. G. Gifford

NORTHLAKE MINES LTD.	
EL GROUP AREA 17	
Watson Lake M.D. Drill Holes N-1 to N-4	
P. H. Sevensma Consultants Ltd. Vancouver B.C.	
September 1967	Scale 40'

FIG. 7