



42B01NW0053 36 KEITH

010

Diamond Drilling

Township of KEITH

Report N^o 36

Work performed by: Dunvegan Mines (Hoodoo)

Claim N ^o	Hole N ^o	Footage	Date	Note
	1	354'	Dec/46	(1)
	2	107'	Dec/46	(1)
	3	353'	Dec/46	(1)
	4	80'	Dec/46	(1)
	5	200'	Dec/46	(1)
	6	163'	Dec/46	(1)
	7	800'	Dec/46	(1)
	8	^{205'} 755'	Jan/47	(1)
	9a	61'	Jan/47	(1)
	9	653'	Jan/47	(1)
	10	256'	Jan/47	(1)
	11	791'	Jan/47	(1)
	12	802'	Jan/47	(1)
	13	256'	Feb/47	(1)
	14	276'	Feb/47	(1)
	15	⁵³ 657'	Feb/47	(1)

Notes:

⁴⁵ 07

Diamond Drilling

Township of KEITH

Report N^o 36

Work performed by:

Claim N ^o	Hole N ^o	Footage	Date	Note
	16	103'	Feb/47	(1)
	17	625'	Feb/47	(1)
	18	201'	Feb/47	(1)
	19	75' <i>1604</i>	Feb/47	(1)

Notes:

(1) These holes were probably located in claims S 43553 and S 43552



ONTARIO
DEPARTMENT OF MINES

RESIDENT GEOLOGIST
59 THIRD AVENUE, TIMMINS, ONT.

HOODOO GOLD MINES LTD.

Nov. 1, 1946.

*How
Dunrobin Mines Limited*

Location & Access:

The property consists of 21 claims in Keith Township, comprising the following:

N W $\frac{1}{4}$	Lot 5	Con. VII	
N $\frac{1}{2}$	Lot 6, 7, 8, 9, 10, 11,	Con. VII	
S W $\frac{1}{4}$	Lot 5	Con. VIII	
S $\frac{1}{2}$	Lot 6, 7, 8, 9,	Con. VIII	
S E $\frac{1}{4}$	Lot 10,	Con. VIII.	

It lies to the south-east of JoBurke Gold Mines, and south of the Palomar Gold Mines.

The showings at the time of this examination, were in claim S 43553. They are reached from mileage 136 on the C.N.R. by following the trail toward JoBurke Gold Mines along the concession line between concessions VIII and IX, as far as lot 8. A trail leads south from the east post of lot 8 to the showings, a distance of about 1 mile.

General Geology:

The property has not been mapped in detail, and is largely covered with swamp, so information concerning the geology is rather sketchy.

The showings are in lavas quite similar to those on the JoBurke property to the north-west. Most of them are highly sheared and contorted, but those which are not, appear to be good dacites, with numerous small quartz eyes visible in hand specimens. The shearing at this point, in the centre of claim 43553, is striking between S 35° E and S 70° E, and the dip is practically vertical (see Appendix A). The southern part of the property, where there are more outcrops, is largely affected by the presence of a large mass of intrusives in the S.E. corner of Keith Twp., and the lavas here are altered to dense amphibolites and dioritic types.

The Showings:

A plan of the showings at 1 inch = 50 feet is attached as Appendix A. There are two zones of mineralization, known as the West Showing and the East Showing. They were located recently by Messrs. Nick Elief and

November 1, 1946.

Tom Morrison, and as far as can be ascertained, they have not been previously tested.

The East Showing consists of a series of quartz veinlets and quartz-carbonate veins in sheared and contorted lavas. Stripping over a zone 600 feet in diameter reveals the widespread presence of these stringers and veinlets. In general the quartz forms very narrow, lenticular veinlets occupying minor drag-folds in the shear, and it carries very little mineralization.

The quartz-carbonate veins are more persistent and wider, with a maximum width of $3\frac{1}{2}$ feet noted and an average width of 6-12 inches. Most of them conform in strike to the shearing, but the vein which has yielded best results in panning, is striking about N 10° E, and cutting across the shear which is striking N 20° W at this point. They weather very deeply, leaving a porous, oxidized crust, which yields gold on panning. The principal vein, formerly mentioned as striking N 10° E, pans very well. It is only 8-12 inches in width, but the walls contain numerous carbonate stringers which originate in the vein and die out rapidly along the shear planes in the lava. These carry some pyrite. The fresh vein material consists of an intergrowth of white quartz and yellow carbonate. Cubes and grains of pyrite, and a little chalcopyrite are scattered throughout but mineralization is concentrated more along the walls.

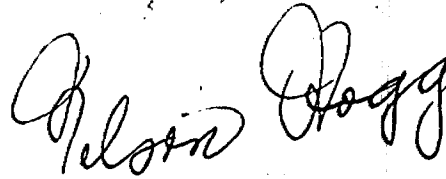
On the outcrop at this point, the direction of shearing changes from S 35° E on the north-west, to S 70° E on the south-east. This suggests that the introduction of vein material on such a generous scale might be localized in the area of a fold in the shear zone. However, in view of the absence of outcrops, along the strike it was not possible to pursue this indication further.

To the west the rocks lose their shearing, and the West Showing is in massive dacite. It lies about 600 feet west of the main vein of the East Showing, but scattered quartz and quartz-carbonate may be found in the intervening rocks. In this case there is a well-defined quartz-carbonate vein exposed for less than 10 feet on a low outcrop. The vein is striking almost due North-South and dipping vertically. It is 30 inches wide on the northend and 50 inches wide on the south. However, about 20 feet further south, the outcrop re-appears, and there is no well-defined vein, but only a series of narrow stringers where the vein should pass. It is probably very lenticular in shape and must have pinched out rapidly. The walls on both sides are carbon-

November 1, 1946.

atized and carry quartz stringers for several feet. This wall rock has some pyrite. The vein itself is well-mineralized, with pyrite in cubes and grains concentrated in dark streaks and in the yellow carbonates.

Prospecting in both these areas has been yielding new veins regularly, but the work is hampered by low ground. Diamond drilling will probably give a better idea of the importance of this occurrence.

A handwritten signature in cursive script, reading "Nelson Hogg". The signature is written in dark ink and is positioned above the typed name.

Nelson Hogg.

Values:

Chip samples were taken across the main vein in the East Showing, and across the north part of the West Vein and yielded results as follows:

<u>Sample No.</u>	<u>Location</u>	<u>Description</u>	<u>Length</u>	<u>Value Gold Oz.</u>
1	E. Showing W. wall	Carbonatized, sheared lava. Sparse pyrite.	14"	0.01
2	E. Showing - Vein	Quartz-Carbonate and Pyrite	6"	0.07
3	E. Showing E. Wall	Sheared Lava with Quartz and Carbonate stringers. Considerable pyrite.	32"	0.07
4	W. Showing W. Wall	Carbonatized lava Little Pyrite.	8"	0.01
5	W. Showing - Vein	Quartz Carbonate Vein Well mineralized.	22"	0.07
6	W. Showing E. Wall	Wall Rock - Carbonate Stringers in Lava. Fair Pyrite Mineralization.	12"	0.02

non



ONTARIO
DEPARTMENT OF MINES

RESIDENT GEOLOGIST
99 THIRD AVENUE, TIMMINS, ONT.

HOODOO LAKE MINES LTD.

Keith Twp.

Sudbury Mining Division

Introduction:

A report on the surface geology and showings of Hoodoo Lake Mines Ltd. was written on November 1, 1946.

Since that time a rather extensive diamond drilling program was completed, under the direction of Mr. Cameron P. Robertson. The core from this drilling was examined only in part, and therefore the present report does not represent the result of a thorough study of the property. Its purpose is to show, insofar as is possible, the relationship of the geology with the geology of the surrounding properties.

Maps:

A map of the surface showings at 1 in. = 50 feet was included with the previous report of Nov. 1. A composite cross-section through drill holes 7, 9, & 11 is included with the present report.

The plan of Joburke Gold Mines Ltd. at a scale of 1 in. = 400 feet has been expanded to include the Palomar diamond drill holes, and the Hoodoo Lake drill holes and it shows the geological structure of the three properties.

Location & Access:

The property consists of a group of 25 claims adjoining south of Palomar Gold Mines, and south-east of Joburke Gold Mines Ltd. It includes the following claims:

S43543 - S43554 - 12 claims
S43761 - S43769 - 9 claims
S45749 - S45752 - 4 claims.

A tractor road has been cut from Joburke station to the diamond drill set-ups on the property. The north boundary of the property is only $\frac{1}{2}$ mile

south of Joburke Station, but since the property is underlain for the most part by cedar swamp, an all-weather road would require considerable work.

No camps were constructed on the property, but permanent camps were built by Hoodoo Lake Mines, on Mackeith Lake, on ground held by Palomar Gold Mines.

Purpose and Extent of Work:

No geological mapping was attempted on the property as a whole before the drilling campaign was started. The north part of the property, thought to be most interesting, is largely covered with cedar swamp, with overburden reaching a depth of 60 feet.

The ground was, however, thoroughly prospected by Messrs. Nick Elieff and Tom Morrison, and the surface showing in claim S43553 was uncovered.

Drilling was started in December 1946, and approximately 7500 feet were drilled by the end of February 1947, when drilling was suspended.

The most interesting surface showing, described in detail in the report of November 1, 1946, is a cross fracture filled with quartz carbonate and mineralized with pyrite, cutting across the shearing in andesitic lava at an oblique angle of about 60° . The original drilling was located with the idea of cutting this cross fracture and also the shearing, at an oblique angle.

Later drilling was done with the object of cross-sectioning the property and testing the favourable horizons at right angles to the strike.

Geology:

The geology of the limited surface showing was discussed in the report of November 1, 1946. At that time it was implied that the surface showings were in the same horizon of flows as the ore-zone at Joburke. This was suggested by the variation in regional shearing which gradually changes from E.W. to S.E. at the east end of the Joburke, and is $S 35^{\circ} E$. at the Hoodoo surface showing in claim S43553. The rock types are also similar in appearance to those in the Joburke ore zone.

This structural relationship is strengthened by the results of diamond drilling.

The cross-sectional drilling was done along a line striking S 70°W, assuming a regional S.E. strike.

Sediments and tuffs similar to those encountered in the drilling on Palomar Gold mines were encountered in Hoodoo holes 11 and 12. The dip of the sediments was not established but several indications by grain gradation show that the beds face to the north-east.

South west on the cross-section, about 800 feet of acid flows and pyroclastics with some interbedded sediments were drilled in holes 11 and 9, and also further north in hole 12. These rocks present the same problem as the similar series of rocks on the Palomar property. In part they are well formed quartz-porphyrines and in part grey, siliceous felsites that could be either intrusive or extrusive, or in places could form part of the quartzose greywacke. In general, though, their association with the graphitic tuffs and fragmentals makes it seem probable that they are largely rhyolite flows.

Below this series of acid flows and pyroclastics lies the interbedded dacites and andesites, similar to those of the Joburke ore zone. Most of the drilling was concentrated in this series of flows, which lie beneath the surface showings.

Drilling confirmed the structure indicated on the few surface outcrops, and showed that the flows swing east again on the Hoodoo Lake property.

Values:

Hole No. 1, drilled under the surface showing returned assays as high as 0.09 oz. over 2 feet, and hole No. 4, drilled to intersect the same zone further north returned 0.18 oz. over 2 feet. The drilling under this exposure was, however, not encouraging as it showed up the vein as a probable tension fracture with little continuity. Holes 2 and 5 and 6, all drilled to intersect the same structure, returned nothing better than 0.04 oz. assays.

In hole No. 7 a quartz carbonate vein returned 0.20 oz. over 2 feet. This intersection would fall along the general strike of those in d.d.h. 1 and 4. Holes 3, 10 and 13 designed to intersect the same vein returned only low assays.

Hole No. 14, which was laid out to out the surface showing at depth, returned 1.40 oz/ton

over 1.5 feet from 36 to 37 feet. These values were apparently derived from a white quartz vein 0.7 inches long in the core, and mineralized with heavy pyrite, some chalcocite and some pyrrhotite. This would not represent the same vein as the one exposed on surface.

Further down the hole, from 194 to 197 feet, an assay of 0.08 oz. over 3 feet was obtained from a section containing quartz stringers and light pyrite in sheared andesite.

Hole 17, drilled in the favourable zone further to the northwest gave one assay of 0.11 oz. over 2 feet from 519 to 521.

Apart from these assays mentioned, there were a large number of low assays ranging from 0.005 to 0.07 in almost every hole drilled.

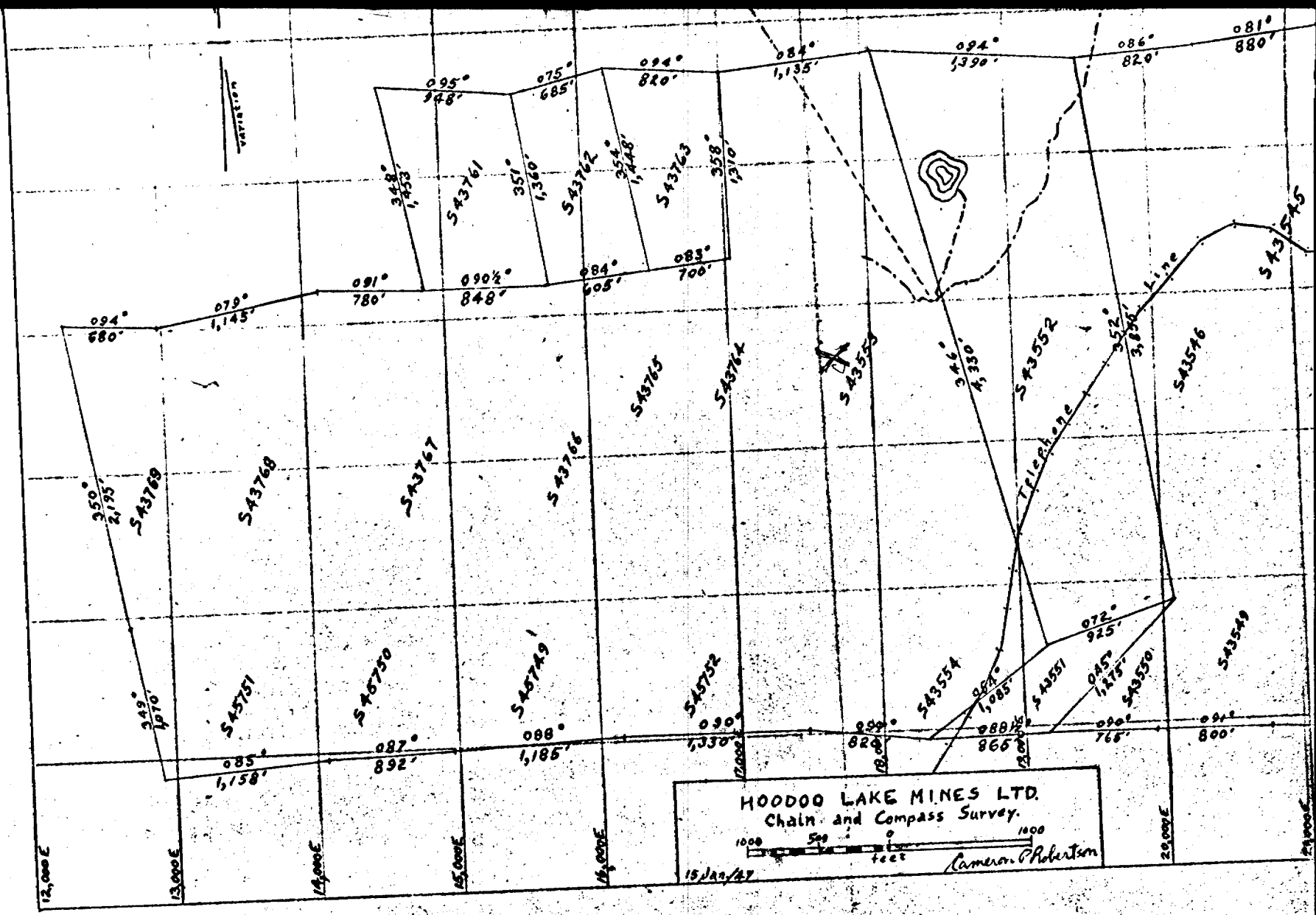
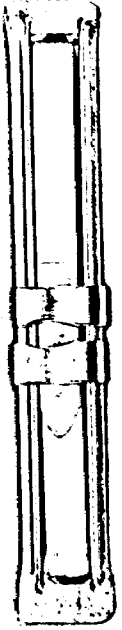
Conclusion:

The results of drilling would indicate that most of the ground is comparable to the surface exposures, which contain a large number of widely scattered quartz carbonate veinlets and stringers with some pyrite. The oblique fractures might be related to the change in strike of the formations at this point. Results to date indicate that they do not have sufficient width or continuity to be commercial, but the possibility has not been exhausted of finding better concentrations along the strike of the interbedded dacites and andesites.

Nelson Hogg

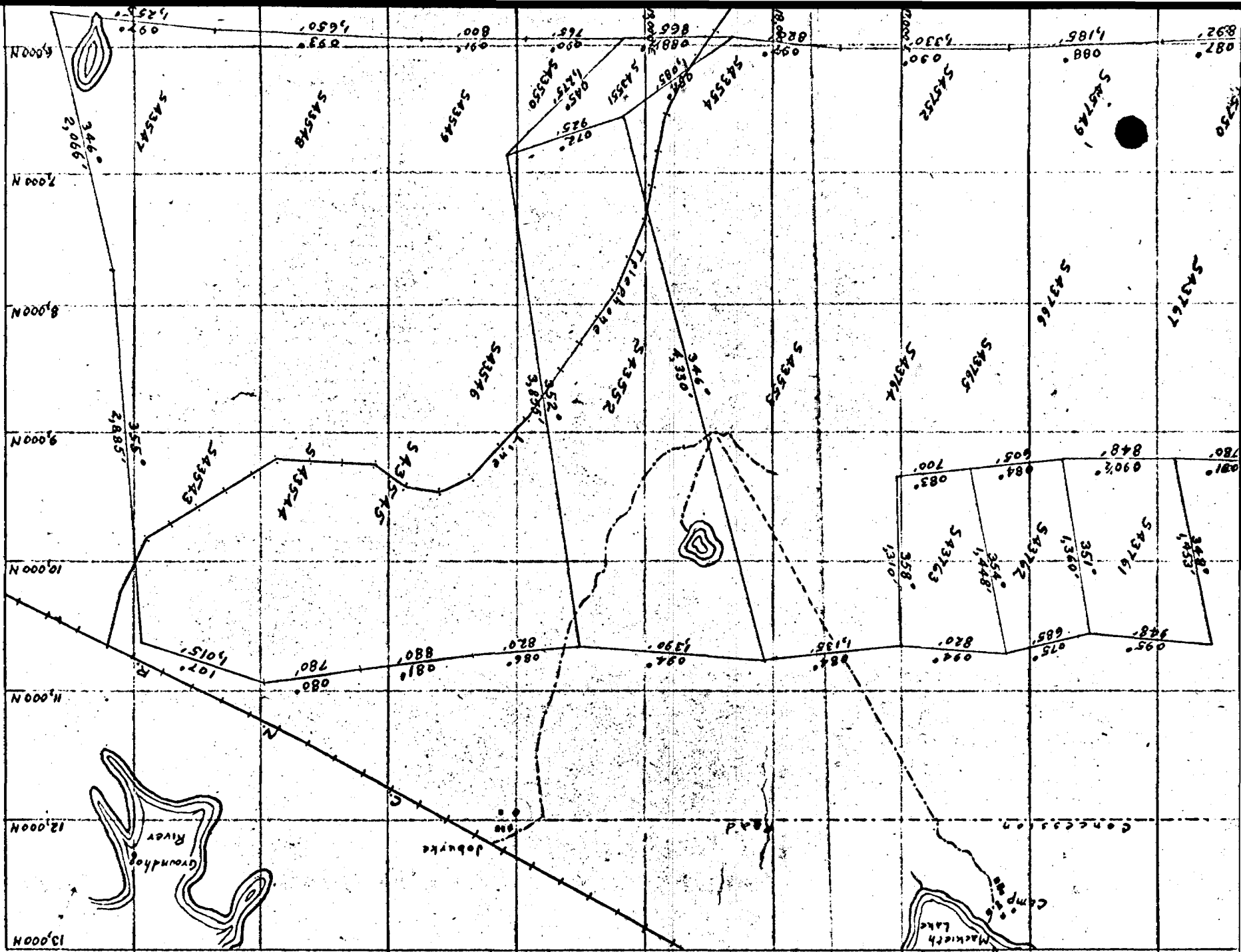
Timmins, Ontario,
June 4, 1947.

Nelson Hogg,
Resident Geologist.



Claim Lines = 53,000 feet = 17 2/3 miles
 Lines to subdivide larger claims = 2 1/3 miles
 Approximate total = 20 miles

Area = 17 1/2



HOODOO LAKE MINES LIMITED
Joburke, Ont.
Via Tionaga, Ontario

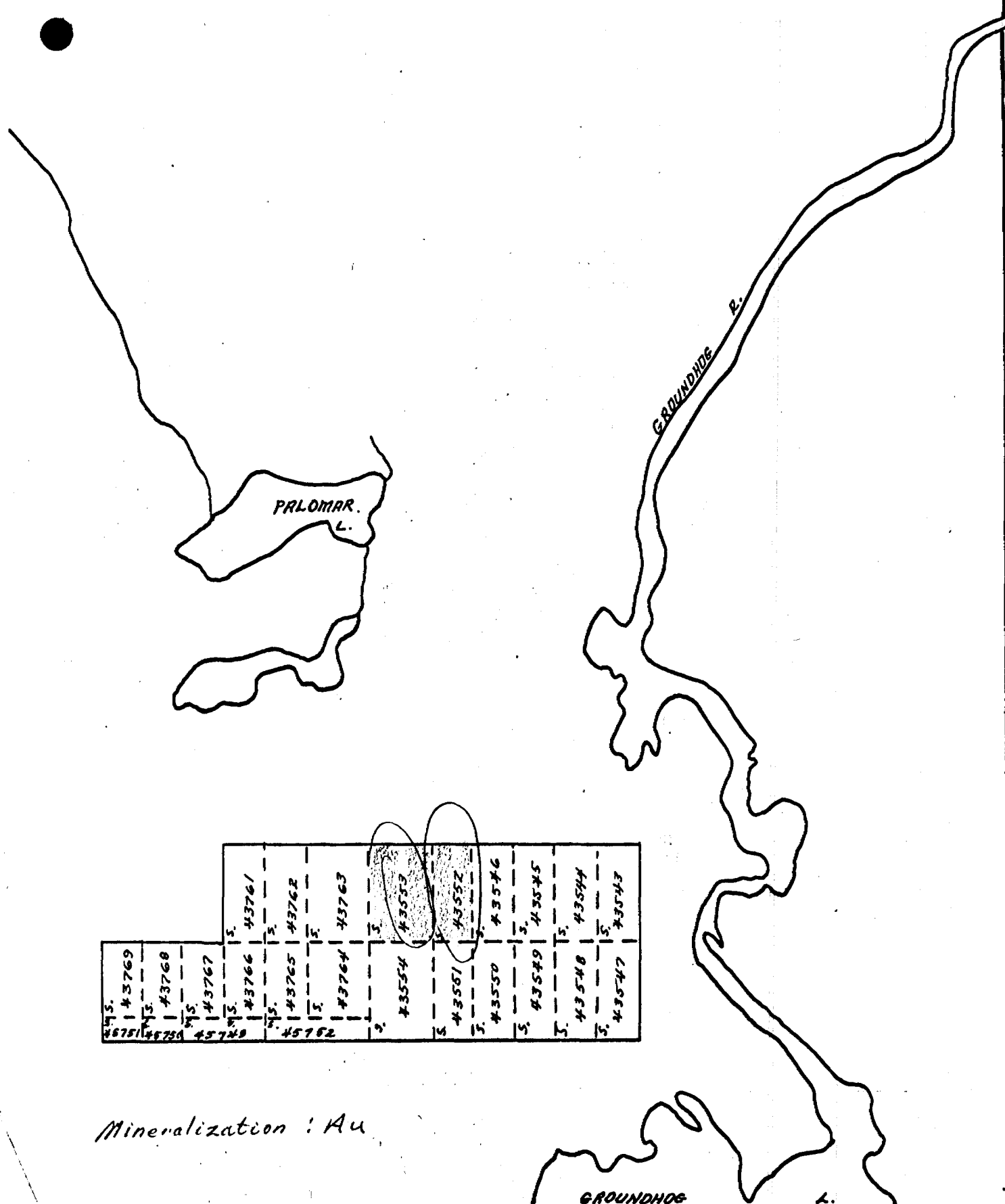
T 167

ABBREVIATIONS used in Logging Core.

//	parallel	mass	massive
@	Intersected at	mat	material
amyg	amygdoloidal	med	medium
ank	ankerite	min.	minute
arseno	arsenopyrite	mod	moderate
br	brownish	num	numerous
brecc	brecciated	oxid	oxidized
carb	carbonatized	phenos	phenocrysts
chalco	chalcopyrite	prev	previous entry
chlor	chlorite	pyr	pyrite
cren	crenulated	pyrrh	pyrrhotite
crs	coarse	qtz	quartz
diss	disseminated	sch	schisted or schistosity
div	divers composition	silic	silicified
fract	fractured	sl	slight
frag	fragmental	sphal.	sphalerite
gran	granular	strin	stringers
graph	graphitic	tour	tourmaline
incl	included	var	varied size
irreg	irregular	v	very
l	little	V.G.	VISIBLE GOLD
leuco	leucoxene	X	times
loc	locally	Xals	crystals
lt	light		

15 Hanuary, 1947

Cameron P. Robertson.



43769	43761	43554	43553	43552	43546
43768	43766	43551	43550	43549	43545
43767	43765	43548	43547	43544	43543
45762	43764				

Mineralization : Au

1966: Sec. D.A. ROBERTSON Prop.
T-1340

BUNVEGAN MINES LIMITED

Keith Township

Scale: 1 inch - 40 chains

PROPERTY HOODOO LAKE MINES TD

HOLE NUMBER 1

SHEET NUMBER 1

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT. 139° (St. 74) 29'
 DEP. N 18,516.84; E 8,960.79
 ELEVATION OF COLLAR 1,217.12'
 DATUM
 DIRECTION AT START: BEARING 248° 34'00"
 DIP

DIP 100-26°30'
 200-22°30'
 335-17°00'
 STARTED Dec. 8/46
 COMPLETED Dec. 11/46
 ULTIMATE DEPTH
 PROPOSED DEPTH 354'

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0-43	Greenstone Schist @ 45°, med grey, qtz strin along sch to 1"				
	a l pyr 0.0-6.0	0501	6.0	0.03	
	As above 19-22	502	3	0.04	
	As above 22-25	503	3	0.05	
	Inj zone, 40% qtz, diss pyr & mass pyr 25-27	504	2	0.05	
	as above 27-29	505	2	0.07	
	Inj zone, 30% qtz 29-31	506	2	0.03	
	Inj zone, 20% qtz 31-34	507	3	0.01	
	Inj zone 0.6' qtz, a l carb 34-36	508	2	0.02	
	Inj zone, 0.9' weathered zone 36-38	509	2	0.01	
	Inj zone, 20% qtz 38-40	510	2	0.03	
	as above 40-42	511	2	0.09	
	Wall of inj zone, v l qtz, a l pyr 42-44	512	2	tr.	
43.0-155	Andesitic Flow sch @ 45-60°, fine gr. med 78-83	513	5	nil	
	grey green, a l pyr.				
	Acid dykes - 113.5-114, 118-118.5, 121-122, 123.5-124				
	qtz strin to 1", a l pyr. 148-150	514	2	nil	
155-158	Diabasic Dyke mass, med gr, black				
158-190	Andesitic Flow - crs sch @ 60°, fine gr. 158-160	515	2	0.005	
	med grey green dk bluish qtz strin to 1", a l pyr.				
190-228	Dacitic Flow - coarse sch @ 60°, fine grain, leuco loc.				

DRILLED BY

SIGNED

Handwritten initials and date: 1-15-46

PROPERTY HOODOO LAKE MINES LIMITED

HOLE NUMBER 1

SHEET NUMBER 2

SECTION FROM

DIAMOND DRILL RECORD

LOCATION: LAT.....
 DEP.....
 ELEVATION OF COLLAR.....
 DATUM.....
 DIRECTION AT START: BEARING.....
 DIP.....

STARTED.....
 COMPLETED.....
 ULTIMATE DEPTH.....
 PROPOSED DEPTH.....

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
190-228	Acidic Dykes: 202-202.6, 204.6-205.4, 207-207.7				
	four 1" qtz strin. a 1 pyr 192-193	516	1	nil	
	0.8' acidic dyke 204-207	517	3	nil	
	0.7' acidic dyke, few qtz strin, a 1 pyr 207-210	518	3	0.01	
	0.9' qtz mass pyr. 210-212	519	2.0	0.02	
	Qtz, 50% rusty carb. a 1 pyr. 212-214.5	520	2.5	0.02	
	0.2' qtz, a 1 pyr. 214.5-216.5	521	2.0	tr.	
228-267	Dacitic Flow - crs sch @ 60°, fine gr. med grey.				
	carb, rusty weathering, a 1 pyr 247-250	522	3.0	nil	
	as above 250-253	523	3	nil	
	as above, plus 0.3' qtz carb strin 253-256	524	3	nil	
	wall of carb zone 256-259	525	3	tr.	
	many min qtz carb strin along sch 259-264	526	5	tr.	
267-354	Dacitic Flow- mass, med gr, med grey, gr becomes dioritic at 348', less crs beyond 348'.				
354	END OF HOLE				
	Core Recovery - 100%				

DRILLED BY

SIGNED

PROPERTY HOODOO LAKE MINES ID.

HOLE NUMBER 2

SHEET NUMBER 1

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT. 080° (St. 74) 065
 DEP. 8986.61 N 18522.17 E

STARTED Dec. 11/46

ELEVATION OF COLLAR 1211.78

COMPLETED Dec. 12/46

DATUM

ULTIMATE DEPTH 107'

DIRECTION AT START: BEARING 244°00'
 DIP 0 - 34°; 100 - 28°

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0-7	Overburden, casing				
7-50	Greenstone schist @ 45, med grey, few qtz str along sch.				
	a l pyr 7-12	0527	5.0	nil	
	as above 12-17	528	5	tr.	
	as above 20-22	529	2	tr.	
	carbonated zone, rusty weathering 22-24	530	2	tr.	
	injection zone 20% qtz 24-26	531	2	0.005	
	as above 26-28	532	2	0.04	
	as above 28-30	533	2.0	0.005	
	few minute qtz strn. 30-32.5	534	2.5	nil	
	inj zone 1.0' rusty weathering 32.5-34.5	535	2.0	nil	
	Two 1/2" qtz strin, a l pyr 34.5-36.5	536	2.0	tr.	
	many min qtz strin along sch a l pyr 40-44	537	4.0	tr.	
	inj zone a l mass pyr. 44-47	538	3	0.005	
	a l pyr 47-50	539	3	tr.	
50-107	Andesitic flow - crs sch @ 60 fine gr, med grey, qtz				
	carb strin to 1", a l pyr. 96-98	540	2	nil	
	as above 100-102	541	2	0.04	
107	END OF HOLE				
	Core Recovery 100%				

Handwritten signature/initials

PROPERTY HOODOO LAKE MINES

HOLE NUMBER 3

SHEET NUMBER 1

SECTION FROM

DIAMOND DRILL RECORD

LOCATION: LAT. 220° (St.142) 103 1/2'
 DEP. 9,275.96 N 17,912.61 E
 ELEVATION OF COLLAR 1,228.21'
 DATUM
 DIRECTION AT START: BEARING 244°00'
 DIP

DIP
 0 -30°
 100 -32°
 200 -29°
 300 -27°

STARTED Dec. 13/46
 COMPLETED Dec. 16/46
 ULTIMATE DEPTH 353'
 PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0-11	Overburden casing				
11-180	Dacitic Flow - med to crs gr, bluish grey, leuco				
	11-45 crs sch @ 50°, 45-180 mass.				
	Inj. zone, 90% qtz	36.5-37.2	0549	2.0	0.02
	Inj. zone, 50% qtz.	40.7-42.0			
	Inj. zone, 20% qtz.	38.2-40.7	550	2.5	0.02
		37.2-38.2	551	3.0	0.03
		42.0-44.0			
180-353	Dacitic Flow - mass, fine to med gr, lt to med grey				
	305.5-312.0 poss narrow tuff band				
	313-334 spotted by carb feldspar	341-346	567	5.0	tr.
	diss fine pyr.				
	334-353 loc epidotized				
353	END OF HOLE				
	The hybrid sampling resulted from selecting "book fashion" from core placed "snake fashion" by inexperienced drill runner.				
	Core Recovery - 100%				

DRILLED BY Canadian Longyear

SIGNED C.P. Robertson

PROPERTY HOODOO LAKE MINES D.

HOLE NUMBER 4

SHEET NUMBER 1

SECTION FROM

DIAMOND DRILL RECORD

LOCATION: LAT. 015° (S. D. D. Hole #2) 3'

DEP. 8990.07 N 18521.11 E

ELEVATION OF COLLAR 1212.57'

DATUM

DIRECTION AT START: BEARING 310°00'

DIP 0 - 46°, 75 - 45°

STARTED Dec. 12/46

COMPLETED Dec. 13/46

ULTIMATE DEPTH 80'

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0.0-6.0	Overburden Casing				
6.0-60.0	Greenstone schist @ 30 light grey a l pyr				
	75% carbonatized rock, rusty weathering 18-22	0542	4.0	nil	
	Inj zone 30% qtz finely diss pyr 22-24	543	2.0	nil	
	Inj zone 80% qtz strin mass pyr 24-26	544	2.0	0.18	
	Inj zone 30% qtz 26-28	545	2.0	0.005	
	a little qtz 28-30	546	2.0	nil	
	0.5' ctz carb, 0.5' weathered carb 30-32	547	2.0	nil	
60-80	Andesitic flow - crs sch @ 30 fine gr med grey				
	diss fine pyr 72-74	548	2.0	nil	
80	END OF HOLE				
	Core Recovery - 100%				

DRILLED BY Canadian Longyear

SIGNED C. P. Robertson

11/16/46

PROPERTY HOODOO LAKE MINES TD.

HOLE NUMBER 5

SHEET NUMBER 1

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT. 171° (St. 74) 45'
DEP. 8,934.36 N 18,498.92 E

ELEVATION OF COLLAR 1,218.90'

DATUM

DIRECTION AT START: BEARING 233°
DIP 0-42°30'; 100-28°; 200-20°

STARTED Dec. 13/46

COMPLETED Dec. 14/46

ULTIMATE DEPTH 200'

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0-6.0	Overburden Casing				
6.0-98.0	Greenstone Sch probably and. flow, sch @ 40-60°, lt grey green				
	55-60 Diabasic Dyke, mass, med grained, black				
	qtz strin along sch a l pyr 12-15	0552	3.0	0.01	
	0.4' & 0.2' qtz 15-17	553	2	0.02	
	qtz strin along sch 17-20	554	3	0.02	
	as above, a l pyr 41-45	555	4	0.01	
	two 0.2' qtz 45-47	556	2	0.02	
	qtz strin along sch, a l pyr 47-50	557	3	0.005	
	as above 50-53	558	3	0.005	
	0.3' & 0.2' qtz @ 40°, a l pyr 63-66	559	3	0.02	
	Inj zone, 50% qtz 66-69	560	3	0.02	
	Three 0.1 qtz, a l pyr 69-72	561	3	0.01	
	0.1' & 0.2' qtz @ 50°, a l pyr 72-75	562	3	0.01	
	0.3' qtz @ 60° 75-78	563	3	tr.	
98-134	Andesitic Flow - crssch, @ 60°, fine gr, med grey				
	Acidic dykes, 165-168, 167-169, 173-176, 90-90.5, 95-95.3				
	0.2' & 0.3' qtz carb strin a l pyr 130-132.5	564	2.5	nil	
134-200	Dacitic Flow - crs sch @ 60°, fine gr, med grey green, flecked by leuco				
	184-191 badly weathered 184-187	565	3.0	nil	
200	END OF HOLE 187-191	566	4.0	nil	

NORTHERN MINER PRESS LIMITED, TORONTO-STOCK FORM NO. 501 REV. 9/44

Core Recovery 100%

DRILLED BY Canadian Longyear

SIGNED C. P. Robertson

PROPERTY HOODOO LAKE MINED

HOLE NUMBER 6

SHEET NUMBER 1

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT. 287° (St. 73) 60'
 DEP. 9,093.0 N 18,587.5 E
 ELEVATION OF COLLAR 1,211.42'
 DATUM
 DIRECTION AT START: BEARING 251°
 DIP 0 - 45°, 100 - 43° 30'

STARTED Dec. 17/46

COMPLETED Dec. 18/46

ULTIMATE DEPTH 163'

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0-12	Overburden Casing				
12-60	Dacitic Flow - sch @ 45°, fine gr., lt to med grey				
	Acidic Dykes 16.6-17.9, 52-55				
	Inj zone, 30% qtz, a l pyr	13-17	0568	4.0	tr.
	Inj zone, 50% qtz, a l pyr	25-28	569	3	0.005
	Inj zone, 70% qtz	28-31	570	3	tr.
	Qtz strin along sch a l pyr.	31-36	571	5	tr.
	3.0' weathered	36-41	572	5	tr.
	as above	41-46	573	5	nil
	qtz strin to 1" along sch	46-49	574	3	nil
60-163	Rhyodacitic Flow - crs sch @ 45°, fine gr, lt bluish grey				
	103-111.6 alteration zone, pearly grey sericite				
	Acidic Dykes 63-64.5, 80-81, 99-100.5				
	0.5' qtz, mass pyr	76-77.5	575	1.5	tr.
	as above	81-82.5	576	1.5	0.02
	a l pyr	105-110	577	5.0	0.005
163.0	END OF HOLE				
	113.5-121.5 - "Younger" "Acidic" Dyke				
	Core Recovery - 100%				

NORTHERN MINER PRESS LIMITED, TORONTO-STOCK FORM NO. 801 REV. 9/44

DRILLED BY Canadian Longyear Ltd

SIGNED C. P. Robertson

PROPERTY HOODOO LAKE MINES D.

HOLE NUMBER 7

SHEET NUMBER 1

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT. 023° (St. 74) 334'
 DEP. 9,285.59 N 18,622.02 E
 ELEVATION OF COLLAR 1,200.0'
 DATUM
 DIRECTION AT START: BEARING 250°
 DIP 0 - 46°, 150 - 43°

DIP 300-390 30'
 450-320 30'
 600 - 290 30'
 750-120 00'
 STARTED Dec. 20/46
 COMPLETED Jan. 12/47
 ULTIMATE DEPTH 800'
 PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0-51	Overburden Casing				
51-131	Dacitic Flow - mass, lt to med grey, carb, silic., alteration zone, carbonatized 58'-71' qtz strin to 1" 63-67 crs sch @ 60°, silic, lt to med bluish grey, loc black carb zones to 2" (71'-127') 103.5-106.5 0.1' to 0.5' bluish qtz, a 1 pyr, a 1 pyr, alteration zone, lt (127'-131') 0.5' qtz replacement, diss pyr. Massive granular textured variously carbonated rock with irregular dark grey strgs splotches - possibly chilled lava. Much leuco. Believed a dacite of the acid series Spec @ 1180.	0578	4.0	tr.	
		579	3.0	nil	
		580	1.0	nil	
131-144	Fragmental - highly sch & contorted 144-149	581	5	nil	
144-149	Greenstone Sch. - highly weathered, rusty, a 1 pyr.				
149-176.5	Dacitic Flow -(Possibly Rhyolite series) crs sch @ 60°, med green (olive), a 1 carb (few fragments similar to end of hole #9)				
176.5-198	Andesitic Flow - sch @ 60°, med greenish 177-180 grey amygdaloidal, two 0.4' silic zones, a 1 pyr. (More acid than above. Schistose. Greenish mica streaks as well as leucoxene.	582	3	nil	
198-277	Dacitic Flow- sch @ 60°, lt bluish grey, carb. 200-224' num carb strin along sch. Acidic Dykes 255-255.3, 259-267, 270-276, 293-295, 297-298.5, 307-308.5, 310.5-311.5 0.6' qtz 211-213 two 0.3' qtz 220-222	583	2	nil	
		584	2	nil	

NORTHERN MINER PRESS LIMITED, TORONTO-STOCK FORM NO. 501 REV. 9/44

DRILLED BY Canadian Longyear

SIGNED G. P. Robertson

PROPERTY HOODOO LAKE MINES LTD.

HOLE NUMBER 7

SHEET NUMBER 2

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT. _____
 DEP. _____

ELEVATION OF COLLAR _____

DATUM _____

DIRECTION AT START: BEARING _____
 DIP _____

STARTED _____

COMPLETED _____

ULTIMATE DEPTH _____

PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
(Mass lt yellow-grey granular vale. Flow and some tuff in brec)	1.0' silic zone, 0.6' qtz	252-256	585	4	tr.
	Acidic Dyke, a l pyr	264-266	286	2	tr.
	as above	272-275	287	3	tr.
277-525	Andesitic Flow - sch @ 60°, fine gr, green	321-323	588	2	nil
	grey to med. green.				
	320-365 - num qtz carb strin along sch	363-364	589	1	nil
	Acidic Dyke med gr, med green (389-293')				
	466-474 scattered amygdules.				
	Acidic Dykes 431-431.4, 458.8-459.1, 477.3-478.5, 489-491.6, 513-514.2, 518.8-519.7				
	qtz strin to 1", a l pyr	404.5-406	590	1.5	nil
	two 1" qtz strin, a l pyr	410-411	591	1.0	nil
	20% qtz filled sch. a l pyr.	422-425	592	3.0	0.02
	80% qtz carb replacement	425-428	593	3	0.04
	1.0' qtz carb vein mat., 1.0' zone	428-430	594	2	0.20
	70% qtz carb replacement				
	qtz strin to 1", 0.4' acidic dyke	430-433	595	3	Nil
	0.1' & 0.4' qtz carb a l pyr	471-473	596	2	nil
525-800	Dacitic Flow - mass, fine to med gr, med green				
	Acidic Dykes 568.5-573, 613-612.5, 698.8-699.7				
	682-687 coarser phase of Dacitic Flow				
	qtz carb veining, a l pyre	595-597	597	2	0.04

DRILLED BY _____

SIGNED _____

PROPERTY HOODOO LAKE MINES LTD.

HOLE NUMBER 8 & 8a

SHEET NUMBER 1

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT. _____ DIP _____
 DEP. 9,455.92 N 18,500.21 E 200-29°
 ELEVATION OF COLLAR 1,199.27' 400-21
 DATUM _____ 600-17
 DIRECTION AT START: BEARING 250° 750-19
 DIP 0-47°, 50-45°
 STARTED 9 Jan/47
 COMPLETED 20 Jan/47
 ULTIMATE DEPTH 755'
 PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0-57	Overburden Casing (pulled)				
57-65	Rhyolitic Flow (?) rusty weathered schist. 57-65	604-5	8.0	nil	
65-67	Iron Formation - much magnetite and pyrite 65-67	606	2	tr.	
67-84.5	Rhyolitic Flow - crs sch @ 45°, light buff, porph. a l mag & pyr 67-69	607	2	nil	
	many small carb frag, a l pyr 80-82	608	2	nil	
	as above 82-84.5	609	2.5	nil	
84.5-110.4	Dacitic Flow - mass, fine gr, v acidic, lt grey Iron formation in Hole 8a 87-92	611	5.0	nil	
110.4-130	Rhyolitic Flow - crs sch @ 45°, pearly to lt grey				
130-180	Dacitic Flow - crs sch @ 45°, med gr, lt to med green, a l carb, leuco pyr along sch 137-139	610	2.0	nil	
	1.0' zone 60% qtz 146-149	612	3	tr.	
180-187	Dacitic Flow - mass, fine gr, lt green two 0.1' qtz strin, a l pyr. 181-182	613	1	nil	
187-254	Andesitic Flow - crs sch @ 60°, fine gr, med green, 212-234 bluish grey 0.3' qtz 189-191	614	2	nil	
	0.4' qtz a l pyr 194-197	615	3	nil	
	1.5' weathered zone, 0.2' qtz, a l pyr 210-213	616	3	nil	
	0.8' qtz @ 250 224-226	617	2	nil	
254-265	Rhyolitic Flow - crs sch @ 60°, pearly grey, 261-63 more basic scattered pyr cubes 255-257	618	2	nil	

NORTHERN MINER PRESS LIMITED, TORONTO - STOCK FORM NO. 801 REV. 9/44

DRILLED BY _____

SIGNED _____

Handwritten signature

DIAMOND DRILL RECORD

LOCATION: LAT.....
 DEP.....
 ELEVATION OF COLLAR.....
 DATUM.....
 DIRECTION AT START: BEARING.....
 DIP.....

STARTED.....
 COMPLETED.....
 ULTIMATE DEPTH.....
 PROPOSED DEPTH.....

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$		
265-400	Andesitic Flow - crs sch @ 60°, fine gr, med green, qtz strin along sch						
	Acidic Dykes, 269-73, 314-15, 321-25, 327.3-328, 329-29.7, 378-79, 380-80.3, 407-08						
	0.2' & 0.8' qtz carb @ 45°, a l pyr 295.5-298.5	619	3.0	nil			
	0.3' qtz @ 30° 313-314	620	1.0	nil			
	0.6' & 0.8' zones of qtz carb vein mat 399-401	621	2	nil			
400-560	Andesitic Flow - mass, fine gr, med green, 453-502 gross fine dacitic flow.						
	485-486 spotted by carb feldspars						
	Acidic Dykes, 513-514.5, 542-547						
	Qtz porph dykes, 541-542, 567.5-568						
	0.5' qtz 453-454	622	1	nil			
	0.5' qtz replacement, a l pyr 547-548	623	1	nil			
560-755	Dacitic flow - mass, fine gr, med green qtz strin to 1"						
	qtz porph 575-578, Acidic Dykes 705-12, 718-18.7						
	Qtz strin to 1", a l pyr 670-672	624	2	nil			
	as above 680-682	625	2	0.01			
	0.3', 0.8', & 0.3' qtz carb zones, a 700-704.5	626	4.5	0.005			
	l pyr, contact zone of Dac Flow-Acidic 704.5-706.5	627	2.0	nil			
	Dyke.						
755	END OF HOLE						
	Hole #8 required cementing at collar when at 172'. In reboring, Hole #8a						
	left the original hole at 75 feet -- rock softer than cement. Core Recovery - 100%						

PROPERTY HOODOO LAKE MINES D.

HOLE NUMBER 9

SHEET NUMBER 1

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT. 023° (St. 71) 20' Dip
 DEP. 9,450.70 N 19,058.24 E 200-400
 ELEVATION OF COLLAR 1,206.90' 400-32
 DATUM 600-21°30'
 DIRECTION AT START: BEARING 217°
 DIP 0-50°30'

STARTED Jan 15/47
 COMPLETED Jan 24/47
 ULTIMATE DEPTH 653'
 PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0.0-58	Overburden Casing (pulled)				
58-108	Breccia (Rhyolitic?) crs sch @ 45°; frag; fine gr, lt greenish grey Matrix: black, graphitic, a l carb				
	0.7' qtz, a l pyr	66-67	628	1.0	nil
	highly silic. a l pyr	80-82	629	2.0	nil
108-181	Fragmental (Rhyolitic?)(Tuff?) crs sch @ 60°, fine frag, lit bluish grey, a l carb, loc se				
	tuff bands 165-68; Acidic Dyke	175-176.5	630	1.5	tr.
	176.5-177. Possible flow 140-144.	180-181	631	1.0	nil
181-188	Breccia - as previous				
188-217	Tuff - crs sch & bedding @ 60°, graph, Tops to West (?)				
217-227	Dacitic Flow - crs sch @ 60°, fine gr, silic, lt greenish grey (possibly Acidic Dyke?) 20% bluish qtz replacement	217-219	632	2	nil
227-242	Tuff - as previous				
242-356.5	Rhyolitic Flow - crs sch @ 45°, fine gr, porph, lt blue grey Acidic Dyke 312.5-324, Tuff Bands 341.5-347.5				
	qtz strin	242-244	633	2	0.02
	as above	250-252	634	2	nil
	0.3' qtz, a l pyr	270-271	635	1.0	nil
	tuff bands with qtz (3.5' lost core)	341.5-347.5	636	2.5	nil
356.5-366	Tuff - mas, graph, loc red carb stains				
366-371	Flow Breccia (Rhyolitic?) mass; frag; fine cr, porph, dark grey.				

NORTHERN MINER PRESS LIMITED, TORONTO-STOCK FORM NO. 501 REV. 9/44

Matrix: black, graph. Tops to EAST

DRILLED BY Canadian Longyear

SIGNED C. P. Robertson

PROPERTY HOODOO LAKE MINES, I

HOLE NUMBER 9a
 SHEET NUMBER 2
 SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT.....
 DEP.....
 ELEVATION OF COLLAR.....
 DATUM.....
 DIRECTION AT START: BEARING.....
 DIP.....

STARTED.....
 COMPLETED.....
 ULTIMATE DEPTH.....
 PROPOSED DEPTH.....

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	396-398 - Tops (UP)				
371-430	Tuff - mass, interbedded grey and graph, @ 45-80°, Tops to East				
	0.1' qtz @ 60°, much pyr	384-385	637	1.0	nil
430-454	Quartzose Graywacke mass, fine gr, lt grey Tops to East -(Too little evidence)				
454-456	Tuff - as previous Tops to EAST				
456.5-466	Rhyolitic Flow - mass, fine gr, buff Flow top material to East				
466-485	Rhyolitic flow - mass, fine gr, lt grey				
485-565	Dacitic Flow - mass, fine gr, bluish grey, loc black carb banis to 2"				
565-608	Fragmental - mass, fine gr, bluish green dacitic matrix				(Dacite is unlike that in hole #3)
608-653	Dacitic Flow - as previous, few fragments.				
653	END OF HOLE - Still in Acid Series				
	Core Recovery - 95.6% (chiefly due to sand seeping into hole at collar before cementing)				

DRILLED BY

SIGNED.....

1-62

PROPERTY HOODOO LAKE MINES LTD.

HOLE NUMBER 10

SHEET NUMBER 1

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT. 9,251.31 N 18,370.79 E

DEP.

ELEVATION OF COLLAR 1,211.47

DATUM

DIRECTION AT START: BEARING 250°
DIP 0 - 49°, 150 - 44°

STARTED Jan. 23/47

COMPLETED Jan 25/47

ULTIMATE DEPTH 256'

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 32	Overburden Casing (pulled)				
32 - 54	Dacitic Flow - sch @ 45°, fine gr, green				
	Acidic dyke 33.5-35, 35.5-37.2, 38.3-39.3, 42.6-47, 50-53.				
	0.5' qtz vein mat 32-33.5	0638	1.5	nil	
54-186	Andesitic Flow - sch @ 40°, fine gr, lt green, qtz strin along sch				
	Acidic dyke 140.2-142.3, 148.3-149, 154.5-155.2				
186-256	Dacitic Flow - crs sch @ 45°, fine gr, green, leuco				
	Acidic dyke 255.5				
	0.8' qtz vein mat, 235-237	639	2.0	nil	
	several qtz zones to 0.2 237-240	640	3	nil	
	0.5' qtz vein mat 240-242	641	2	nil	
256.0	END OF HOLE				
	Core Recovery - 100%				

DRILLED BY Canadian Longyear Ltd.

SIGNED G. P. Robertson

1-15-47

DIAMOND DRILL RECORD

LOCATION: LAT. 115° station 202 - 64' DIP
 DEP. 9,638.38 N. 19,627.95 E. 200 - 40° STARTED Jan. 27/47
 ELEVATION OF COLLAR 1,207.0' 400 - 29 COMPLETED Feb. 12/47
 DATUM 600 - 28
 DIRECTION AT START: BEARING 248° 791 - 25 30' ULTIMATE DEPTH 791'
 DIP 0 - 53° PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0-75	Overburden Casing left - flush joint is 15' down hole				
75-444	Sediments - bedding @ 45°, mostly fine gr greywacke, yellowish to lt greenish grey, locally gritty e.g. 86-90, 170-199, 375 loc. sericitic & carbonatized e. g. 92-116, increasing from 160-199 argillaceous 138-45, 199-231, 310-312				
	Acidic dykes (?) 103-103.2, 103.6-103.8, 104.5-105, 109-111.5, 332-338, 439.5-440.				
	qtz strin along crs sch 113-117	659	4.0	0.005	
	0.4' qtz 165-167	660	2	0.005	
	weathered zone 174-176	661	2	tr.	
444-469.5	Fragmental - crs sch @ 60°, small frag, dark grey, loc graph, carb, rhyol, (?) 462-463	662	1	tr.	
469.5-499.5	Greenstone Schist (fragmental?) crs sch @ 60°, much qtz as strin & vein material, some diss pyr, loc graph zones 469.5-473	663	3.0	tr.	
	badly broken, 2" poss irong formation, (0.5' lost core)				
	" " much qtz, diss. pyr 473-476.5	664	3.5	tr.	
	40% qtz a l pyr 476.5-479	665	2.5	0.005	
	10% qtz a l pyr 479-481	666	2.0	tr.	
	few qtz strin, a l pyr along sch 481-484	667	3	tr.	
	50% qtz some mass pyr 484-487	668	3	tr.	
	10% qtz a l pyr 487-493	669-70	6	tr.	
	60% qtz a l carb, diss pyr 493-495	671	2	tr.	

DIAMOND DRILL RECORD

LOCATION: LAT.....
 DEP.....
 ELEVATION OF COLLAR.....
 DATUM.....
 DIRECTION AT START: BEARING.....
 DIP.....

STARTED.....
 COMPLETED.....
 ULTIMATE DEPTH.....
 PROPOSED DEPTH.....

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	10% qtz a l pyr	495-498	672	3	tr.
	qtz strin a l pyr	498-501	673	3	tr.
499.5-532	Brecia - crs sch @ 45°, varied frag, black, graph, carb				
	0.3' qtz, a l pyr	501-503	674	2	0.005
	a l masspyr	503-506	675	3	tr.
	two 0.1' qtz a l pyr	521-522	676	1	tr.
	loc epidotized, few dark blue qtz strin	522-532	677-79	10	tr.
532-791	Andesitic Flows - med to crs sch @ 75°, fine gr, green				
	532-625 more acidic flow, lighter colour				
	532-575 amygdaloidal and somewhat fragmental, yellowish				
	625-791 more mass, basic flow with qtz carb strin				
	709-730 Dacitic. Qtz porph dyke	546.7-555			
	Acidic dykes	605-606.7, 769.3-774.6, 777.5-779.5, 786.3-787.6			
	0.3' qtz a l pyr	537-539	680	2	tr.
	0.5' qtz vein material, a l pyr	544-545	681	1	tr.
	a l qtz, a l pyr, a l leuco	564-566	682	2	0.005
	qtz strin a l pyr	602-605	683	3	tr.
	0.5' qtz vein mat a l pyr	638.5-639.5	684	1	tr.
	two 0.2 qtz carb a l pyr	639.5-642.5	685	3.0	tr.
	qtz strin along sch a l pyr	666-669	686	3	tr.
	0.5' qtz @ 30°	708-709	687	1	tr.
791	END OF HOLE	Core Recovery 99.6%	Remarks - Andesitic flow 600-791 is comparable to the favourable host rock on the adjoining Joburke ground and original Hoodoo showing		

PROPERTY HOODOO LAKE MINING LTD

HOLE NUMBER 12

SHEET NUMBER 1

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT. 192° (St. 67) 63'
 DEP. 10,613.07 N 19,505.97 E
 ELEVATION OF COLLAR 1,213.30'
 DATUM
 DIRECTION AT START: BEARING 248°
 DIP 0 - 44°

DIP
 200-38°
 400-29 300'
 600-28
 802-25

STARTED Jan 26/47
 COMPLETED Feb. 9/47
 ULTIMATE DEPTH 802'
 PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0.0-26	Overburden Casing (pulled)				
26-831	Sediments - bedding @ 35-45°, mostly fine gr graywacke, lt grey to bluish grey, 26-120 loc. argillaceous, 120-230 uniform fine gr graywacke, 230-381 - quartzose greywacke tops to Southwest (?) 223-243 few angular fragments. Bluish porph dykes 42-43, 59-62 Acidic Dykes 113-114, 183.5-185.5, 200.6-203, 246-248, 249-50.5, 285-297, 354.3-55.5, 358.2-58.4, 360-61.6				
	0.5' qtz a l pyr	274-275	642	1.0	tr.
	6.6', 0.1', 0.2' qtz	281-284	643	3.0	tr.
	0.5' qtz, a l pyr	320.5-321.5	644	1	tr.
381-411	Tuffs - mass, black, graph				
411-462	Sediments - quartzose greywacke, bedding @ 60°, fine gr, med grey.				
462-487	Tuffs - as prev. loc. graywacke				
487-609	Sediments - Quartzose greywacke, bedding @ 45°, fine gr, lt grey, loc has small angular frag e.g. 525-550 Tops to NORTHEAST.				
609-750	Rhyolitic Flow - sch @ 45°, sericitic, carb, pearly grey				
	qtz strin, a l pyr	614-616	645	2	0.005
	diss pyr, galena, sphalerite	616-618	646	2	0.005
	narrow strin gal & sphal filling	629-631	647	2	0.005
	fract @ 20°				
	diss pyr	631-634	648	3	tr.
	as above	634-637	649	3	nil

NORTHERN MINER PRESS LIMITED, TORONTO-STOCK FORM NO. 501 REV. 9/44

DRILLED BY Canadian Longyear Ltd.

SIGNED C. P. Robertson

Handwritten signature/initials

PROPERTY HOODOO LAKE MINING LTD.

HOLE NUMBER 13

SHEET NUMBER 1

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT. 275° (St. 139) 52'
 DEP. 9,119.78 N 18,258.59 E
 ELEVATION OF COLLAR 1,216.54
 DATUM
 DIRECTION AT START: BEARING 69°
 DIP 0-60°30'; 200-52°

STARTED Feb. 10/47
 COMPLETED Feb. 12/47
 ULTIMATE DEPTH 256'
 PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 14	Overburden Casing				
14 - 256	Andesitic Flow - sch @ 45-60°, fine gr, green to lt grey green. loc dacitic 14-147 Acidic dykes 87-89.5, 243.7-44.4 0.3' qtz, a l pyr 88.5-89.5 688 1.0 tr. Badly weathered schist, rusty, qtz 153-156 689 3 tr. strin. Qtz porph dyke badly weathered, 156-164, 156-167 690-91 5 tr. 0.4' qtz vein mat, a l pyr 161-162 692 1 tr. 0.1' qtz 162-164.7 693 2.7 tr. 0.2' qtz a l pyr 176-178 694 2.0 tr. Few qtz strin 182-188 695-96 6 0.005 as above 188-191 697 3 tr. 0.3' & 1.8' qtz carb, fract, a l fine pyr 191-194 698 3 tr. qtz strin along sch. 194-196 699 2 tr. qtz strin along sch.				
256	END OF HOLE				

13

PROPERTY HOODOO LAKE MINI LTD.

HOLE NUMBER 14
SHEET NUMBER 1
SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT. 275° (9,000 N 18,400 E) 13'
DEP.
ELEVATION OF COLLAR 1,214.35
DATUM
DIRECTION AT START: BEARING 110°
DIP 0-46°, 200-41°STARTED Feb. 12/47
COMPLETED Feb. 14/47
ULTIMATE DEPTH 276'
PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 6.0	Overburden Casing				
6 - 276	Andesitic Flow - sch @ 35°, fine gr. green Diabasic dyke - Weathered zone 265-273	251.5-256.5			
	qtz strin, diss pyr 23-26	700	3.0	0.005	
	50% qtz, much pyr, fracture filling 26-29	701	3	0.04	
	few qtz strin, a l pyr 29-32	702	3	0.04	
	as above 32-36	703	4.0	0.01	
	0.7' qtz vein mat, much pyr, a l chalco & pyr rh 36-37.5	704	1.5	1.41	
	few qtz strin a l pyr 37.5-41	705	3.5	0.005	
	many qtz strin to 1" 41-44	706	3	0.01	
	qtz strin to 0.2' @ 35°, a l pyr 102-105	707	3	tr.	
	0.2' qtz @ low angle 157-159	708	2	tr.	
	few min qtz strin a l pyr 164-166	709	2	tr.	
	two 0.3' qtz @ 35° 184-186	710	2	tr.	
	2.3' qtz carb @ 35°, a l fine diss pyr 186-189	711	3	0.02	
	two qtz strin @ low angle, 0.4' qtz @ 40°, a l pyr 189-191	712	2	0.01	
	num qtz strin to 1" 191-194	713	3	0.04	
	qtz strin a l diss pyr 194-197	719	3	0.08	
	as above 197-200	739	3	0.01	

NORTHERN MINER PRESS LIMITED, TORONTO-STOCK FORM NO. 501 REV. 9/44

DRILLED BY Canadian Longyear

SIGNED C. P. Robertson

PROPERTY HOODOO LAKE MINING LIMITED

HOLE NUMBER 15

SHEET NUMBER 1

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT. 162° (Station 72) 310'
 DEP. 8,900.48 N 18,981.69 E
 ELEVATION OF COLLAR 1,202.69
 DATUM
 DIRECTION AT START: BEARING 250°
 DIP 0 - 52°30'

DIP
 200 - 36°
 400 - 27°
 600 - 20°

STARTED Feb. 13/47
 COMPLETED Feb. 20/47
 ULTIMATE DEPTH 657'
 PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 60	Overburden Casing (pulled)				
60-105	Dacitic Flow - crs sch @ 45°, fine to med gr. lt to med grey sericitic, a l qtz, a l pyr 71-74	721	3.0	tr.	
105-166	Andesitic Flow - crs sch @ 60°, loc mass, fine gr, loc dac., med grey green				
	0.3' qtz diss pyr 111-114	722	3.0	0.08	
	0.3' qtz a l pyr 120.5-119.5	723	1.0	0.02	
	qtz strin to 0.3' a l pyr 124-127	724	3.0	0.005	
	qtz strin a l pyr 129-131	725	2	0.03	
	as above 131-134	726	3	0.01	
	num rusty qtz strin 143-146	727	3	tr.	
	0.2' qtz a l pyr 149-150	728	1.0	0.02	
166-193	Dacitic Flow - crs sch @ 50°, med gr. green, leuco				
	qtz strin a l pyr 170.5-174	729	3.5	tr.	
193-325	Andesitic Flow - crs sch @ 45°, fine gr, green				
	Acidic dyke, 194-194, 201.1-201.8, 284.5-289				
	rusty weathering, mud seams 220-224	730	4.0	0.005	
	acidic dyke, rusty qtz strin a l pyr 287-289	731	2	tr.	
325-349	Dacitic Flow - as previous, Acidic Dyke, 326-326.5	334-334.2			
349-460	Andesitic Flow - as previous, alteration zones 357-58, 360-60.3, 331.5-52.5				
	Acidic Dykes, 375-75.5, 387.6-90.8, 407.5-08.4				
	427-17.8, 427-27.3, 442.2-43, 250-51.9, 455-56				

DRILLED BY

SIGNED

1-197

PROPERTY HOODOO LAKE MINING LTD

HOLE NUMBER 16

SHEET NUMBER 1

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT. 270° (Station 75) 42'
 DEP. 8,856.04 N 18,488.65 E
 ELEVATION OF COLLAR 1,231.78
 DATUM
 DIRECTION AT START: BEARING 259°
 DIP 0 - 40°, 100-40°

STARTED Feb. 14/47
 COMPLETED Feb. 15/47
 ULTIMATE DEPTH 103'
 PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0.0 - 5.5	Casing				
5.5-56	Andesitic Flow - sch @ 45°, fine gr. green				
	Acidic Dykes 26.7-27.2, 27.6-27.9, 32.6-32.7				
	0.3' qtz @ 45°, diss pyr 51-54	720	3.0	tr.	
56 - 103	Dacitic Flow - crs sch @ 45°, fine gr. green				
103	END OF HOLE				
	Core Recovery - 100%				

DRILLED BY Canadian Longyear

SIGNED C. P. Robertson

162

DIAMOND DRILL RECORD

LOCATION: LAT. 9,641.06 N 18,401.30 E
 DEP. 200-54⁰30
 ELEVATION OF COLLAR 1,200.37 400-50 30
 DATUM 600-35 30
 DIRECTION AT START: BEARING 250°
 DIP 0 - 55°30

STARTED Feb. 16, 1947
 COMPLETED Feb. 27, 1947
 ULTIMATE DEPTH 625'
 PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0-63	Overburden Casing (some 50' left in hole)				
63-71	Rhyolitic Porphyry(?) sch @ 40°, rusty weathered, pearly				
	SLUDGE 71-80	777		Nil	
71-91	Iron Formation(?) graphitic 71-85, diss pyr Somewhat graphitic tuffs.				
	SLUDGE 80-87	778		tr.	
	8 84-87	779	3.0	tr.	
91-205	Rhy 87-90	780	3.0	tr.	
91-215	Rhyodacitic Flow crs sch @ 45°, med gr, lt green, loc porph				
	qtz strin 138.5-141.5	781	3.0	0.01	
	Alteration zone, fine gr, pearly 141.5-144.5	782	3.0	tr.	
	grey, sericitic 139.5-155.				
	0.4' qtz carb zone 148-149	783	1.0	tr.	
	155-215' loc crs gr. loc leuco qtz strin to 0.2'				
	over 1.5' core. 171.5-173.5	784	2.0	0.02	
215-252	Andesitic Flow - sch @ 40°, fine gr, green				
	large cubes of pyr. 215-218	785	3.0	0.05	
	two 0.2' qtz a l pyr 225-228	786	3	tr.	
252-295.5	Dacitic Flow - crs sch @ 45°, fine gr, bluish grey to dark green				
	1.0' qtz vein a l pyr 282.5-284.5	787	2.0	tr.	
	qtz strin to 0.2', a l pyr 284.5-287.5	788	3	tr.	
	1.5' zone num qtz carb strin, a l 287.5-290.5	789	3	tr.	

1762

PROPERTY HOODOO LAKE MINING LTD

HOLE NUMBER 17

SHEET NUMBER 2

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT.
DEP.

ELEVATION OF COLLAR

DATUM

DIRECTION AT START: BEARING
DIP

STARTED

COMPLETED

ULTIMATE DEPTH

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$			
	v l min 290.5-294	790	3.5	nil				
	1.0' zone of num qtz carb strin, a l 294-295.5	791	1.5	tr.				
	fine pyr.							
295.5-303	Acidic Dyke - Acidic Dyke - 295.5-303, few qtz strin, few pyr cubes.							
	300-302	792	2.0	tr.				
	contact zone 302-304	793	2.0	0.005				
303-610	Andesitic Flow - sch @ 45°, fine gr, green							
	Acidic Dykes, 315.5-16.8, 341-45, 366-56.8							
	370-77, 383.8-85.2, 488-94, 510-12							
	Possible Dacitic Flow, 500-530, fine gr.							
	qtz porph dyke, 570-578							
	0.8' qtz carb vein mat, a l fine pyr 323.5-325	794	1.5	tr.				
	0.3', 0.1', 0.3' qtz carb diss pyr 328-331	795	3.0	0.005				
	num small qtz strin, al pyr. 334-337	796	3.0	0.005				
	0.2' qtz carb, 1.5' alteration zone, a l pyr							
	337-340	797	3.0	0.005				
	1.5' zone num qtz string, a l pyr 345-347.5	798	2.5	0.01				
	Acidic dyke, qtz strin, a l pyr, (0.5' lost)							
	375-377	799	1.5	tr.				
	0.3' alteration zone, 0.1' qtz carb. 512-514	800	2.0	tr.				
	a l diss pyr 514-519	801	5	tr.				

NORTHERN MINER PRESS LIMITED, TORONTO-STOCK FORM No. 501 REV. 9/44

Canadian
DRILLED BY Longyear Limited

SIGNED C. P. Robertson

PROPERTY HOODOO LAKE MINE LTD

HOLE NUMBER 18

SHEET NUMBER 1

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT. 020° (S.D.D. Hole #14) 30'
 DEP. N 9,02632 E 18,403.18
 ELEVATION OF COLLAR 1,213.45
 DATUM
 DIRECTION AT START: BEARING 110°
 DIP 0 - 45°, 200 - 25°30'

STARTED Feb. 22/47
 COMPLETED Feb. 23/47
 ULTIMATE DEPTH
 PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0.0-7	Andesitic Flow Casing				
7 - 201	Andesitic Flow - sch @ 45°, fine gr, green, loc cren min qtz strin				
	qtz strin to 0.2', a l pyr	17-20	740	3.0	tr.
	0.2' qtz carb @ 45°, a l pyr	20-21	741	1	tr.
	qtz strin, a l pyr	21-24	742	3	0.005
	as above	24-27	743	3	tr.
	as above	27-30	744	3	tr.
	qtz carb strin to 0.2', a l pyr	30-33	745	3	tr.
	qtz strin a l pyr	33-36	746	3	tr.
	qtz strin @ low angle, a l pyr	47.5-49	747	1.5	tr.
	v l min	49-54	748	5.0	tr.
	1.5' zone 50% qtz carb a l pyr	54-56.5	749	2.5	tr.
	0.5' qtz vein mat. a l pyr	56.5-57.5	750	1.0	tr.
	v l min	57.5-60	751	2.5	tr.
	as above	60-64	752	4.0	tr.
	qtz strin. a l pyr	64-67	753	3.0	tr.
	2.0' zone 50% qtz carb, a l pyr	67-69.5	754	2.5	0.005
	qtz strin a l pyr	69.5-72	755	2.5	tr.
	v l min	72-75	756	3	tr.
	qtz carb strin a l pyr	75-77	757	2	tr.
	qtz carb along side of core	141-143	758	2	tr.

NORTHERN MINER PRESS LIMITED, TORONTO-STOCK FORM NO. 501 REV. 9/44

DRILLED BY

SIGNED

1-5-47

PROPERTY HOODOO LAKE MIN LTD.

HOLE NUMBER 19
 SHEET NUMBER 1
 SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT. 200° (S.D.D. Hole No. 14) 30'
 DEP. 8,275.64 N 18,369.46 E
 ELEVATION OF COLLAR 1,217.42
 DATUM
 DIRECTION AT START: BEARING 110°
 DIP 0 - 45°

STARTED Feb. 23/47
 COMPLETED Feb. 24/47
 ULTIMATE DEPTH 75'
 PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 6.0	Andesitic Flow Casing				
6 - 75	Andesitic Flow - sch @ 40-60°, fine gr, green				
	Acidic Dyke 16-17.3' Qtz porph Dyke 35.8-39'				
	Few min qtz strin. 11.5-14.5	770	3	0.06	
	1.3' Acidic dyke, 0.1' qtz carb 14.5-17.5	771	3	0.07	
	qtz carb along side of core for 0.3' & 0.5', a 1 pyr.				
	17.5-20.5	772	3	0.005	
	qtz strin @ low angle, a 1 pyr 29-32	773	3	0.02	
	0.2' qtz @ 45°, a 1 pyr 55-56	774	1	0.005	
	min qtz strin, 0.1' qtz carb @ 45°, a 1 pyr				
	68-70	775	2	tr.	
	0.3' zone of qtz strin a 1 pyr 74-75	776	1	tr.	
75	END OF HOLE				
	Core Recovery - 100%				

Handwritten initials